

Coastal Hydrographic and Meteorological Study
Project CH-1-6 (Job No. 8)
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Abstract

Hydrographic and meteorological data collected in the field and taken from publications are presented in this report.

Rainfall totals in coastal areas were 8.2 per cent greater in 1970 than in 1969 with the heaviest rainfall occurring in September 1970.

Hurricane Celia on August 3, 1970 caused great damage from strong winds (180 mph) but rainfall was below normal for a hurricane and was confined to Nueces, San Patricio and Aransas Counties.

High tides generated along the Texas coast by Celia were 9.2 feet at Port Aransas and from 4 to 6 feet elsewhere along the Texas coast.

Several passes were opened across Mustang Island, three of which were still open at the time of this writing.

Water temperature followed normal seasonal trends and varied little from the previous year.

Salinity patterns varied from the upper to the lower coast in relation to rainfall distribution, but in general salinities were slightly lower than 1969 as a result of increased rainfall.

Dissolved oxygen sampled ranged from an average of 2.7 ppm in the Corpus Christi area to 7.7 in the San Antonio Bay area. There was a direct correlation between increasing dissolved oxygen and decreasing water temperatures.

Hydrogen ion determinations (pH) were initiated in June 1969 in all areas except the Upper Laguna Madre. pH readings remained above a critical level at all stations.

Turbidity readings were generally lower in 1970 than in 1969, probably as a result of calmer weather. In 1970 average turbidities ranged from 48 ppm in January to 60 ppm in March.

River flow measurements were available for six major rivers entering coastal bay areas in 1969 and three in 1970. Measurements were available from January through September.

Commercial landings indicate shrimp and crabs were taken in larger numbers in areas of higher rainfall and lower salinities. Finfish were taken in larger numbers in the Laguna Madre where rainfall was lower and salinities were relatively higher.

Habitat modifications included routine maintenance dredging of the Intra-coastal Waterway and existing ship channels, dredging of new channels, drilling oil wells, placement of pipelines, bulkheading and filling, mud shell

dredging, increasing heated water discharge from power plants, and marine construction.

Introduction

Hydrographic and climatological conditions affect the productivity and abundance of commercial species of shrimp, crabs and most species of food and game fish. This project monitors rainfall, river discharge, turbidity, tide, salinity, water temperature, pH, dissolved oxygen, and man-made or natural habitat modification affecting nursery ground areas. This report covers sampling from January 1969 through December 1970.

Materials and Methods

Water samples were taken at fixed stations in each bay area on a monthly or semi-monthly basis through the period (Figures 1-9). These water samples were checked for salinity, turbidity, temperature, pH, and dissolved oxygen.

Salinity was determined using an American Optical Goldberg Refractometer. The reflective index was converted to salinity in parts per thousand. Turbidity was determined in parts per million using a Jackson turbidimeter. Temperature was measured in degrees centigrade. Hydrogen ion determination were measured with a Photovolt pH meter in parts per million. Dissolved oxygen was determined in parts per million using a Hach kit.

Meteorological information was taken from U. S. Weather Bureau records. River discharge information was obtained from the Water Resources Division of the U. S. Department of Interior, Geological Survey Branch.

Habitat modifications of productive nursery areas in each bay was determined and changes or alterations, man-made or natural, were recorded.

Results and Discussions

Rainfall - Rainfall was 8.2 per cent greater in 1970 than in 1969 with the highest monthly total of 14.39 inches recorded in Galveston Bay in May 1970 and the lowest of 0.03 recorded in Corpus Christi Bay in July 1969 (Table 1).

Variations in annual distribution were evident. In 1969 rainfall was more evenly distributed, while in 1970 there were two peaks of heavy rainfall, one in May and one in September (Figure 10). Hurricane Celia in August 1970 did not greatly increase rainfall totals as would have been expected.

Spring rains in the Galveston Bay area in 1970 were considerably higher than 1969 particularly in May with 10.07 inches above normal, making it the highest rainfall on record for that month.

Rainfall totals in 1970 were from 0.07 inches to 15.82 inches higher than 1969. Distribution by area was as follows:

	<u>1969</u>	<u>1970</u>	<u>Difference</u>
Galveston	37.21	48.19	10.98
Matagorda	41.76	41.83	0.07
San Antonio	31.57	32.23	0.06
Aransas	28.70	41.45	12.75
Corpus Christi	23.65	39.47	15.82
Upper Laguna	26.46	36.54	10.08
Lower Laguna	24.29	26.54	2.25

Seasonal distribution was as follows:

	<u>Winter</u>	<u>Spring</u>	<u>Summer</u>	<u>Autumn</u>	<u>Total Year</u>
1969	49.34	61.56	39.06	69.47	219.38
1970	33.16	66.25	68.03	98.81	266.25
Diff- erence	-16.18	+4.68	+28.97	+29.34	+46.87

In 1970, 37.0 per cent of the total rainfall was recorded in autumn as compared to 31.6 per cent in 1969.

Summer rainfall also varied considerably with 25.5 per cent of the total recorded in 1970 as compared to 17.8 per cent recorded in 1969.

Torrential rains and massive flooding that usually accompany tropical storms did not occur with Hurricane Celia (1970). Moderately heavy rains of six to eight inches were confined to Nueces, San Patricio and the southern portion of Aransas County. A total of 6.38 inches fell at the National Weather Service Station at Corpus Christi International Airport. Minor flooding occurred at Port Aransas and in low lying areas from Corpus Christi to Galveston Bay.

December 1970 rainfall was exceptionally low with totals ranging from 0.40 inches in the Corpus Christi Bay area to 0.74 inches in the Matagorda Bay area. In 1969, December totals ranged from 0.24 inches in the Lower Laguna Madre to 4.38 inches in the Galveston Bay area. Total rainfall for the seven bay areas in December 1970 was only 4.02 inches compared to 16.56 inches in 1969.

Salinity - Salinities were generally lower in 1970 than in 1969 as a result of increased rainfall. Highest salinity average reached in 1970 was 27.1 ppt in August (compared to 29.1 ppt in 1969) and the lowest was 18.04 ppt (compared to 23.0 ppt in 1969).

Increased rainfall in January lowered salinities to an average of 22.3 ppt (compared to 25.0 ppt in 1969).

February salinities ranged from 15.3 to 33.9 ppt with an average of 23.7 ppt (compared to an average of 22.9 ppt in 1969).

Salinities along the upper coast increased in March and were 2.8 ppt higher than in 1969.

Reduced rainfall in April 1970 (9.33 inches compared to 25.45 inches in 1969) increased salinities to 2.9 ppt higher than 1969 readings.

May 1970 salinities ranged from 14.0 ppt in Galveston Bay to 37.8 ppt in the Upper Laguna Madre and were 8.5 ppt higher than 1969 (Table 2). In 1969 May salinities ranged from 6.0 ppt in San Antonio Bay to 32.5 ppt in the Lower Laguna Madre and this was the lowest salinity range recorded in 1969.

A steadily increasing trend in salinities was exhibited from June through August of both years (1960 and 1970). June 1970 salinities averaged 22.6 ppt and by July increased to 24.7 ppt. August salinities were the highest recorded during both years but August 1970 salinities were 1.19 ppt lower than 1969 as a result of a 3.91 increase in rainfall.

September salinities in 1970 were higher than 1969 despite an increase in rainfall. This increase in salinity was attributed mainly to high tides which were prevalent in September. High tides from Hurricane Celia during the previous month probably affected salinity patterns also.

Heavy rainfall in September 1970 was reflected in October salinities which were lowered to an average of 22.7 ppt.

Salinities decreased from November through December in 1969 as a result of heavy rainfall but in 1970 rainfall was drastically reduced and salinities increased gradually from an average of 24.5 ppt in November to 26.2 ppt in December.

Water Temperature - Water temperature varied between areas (Table 3) particularly during winter months. This may be attributed to different sampling dates along with location and average depth of each individual bay system.

Water temperatures in general were low in all areas during January and February (Tables 11-17). Several freezes occurred but none were severe enough or of sufficient intensity and duration to cause appreciable damage to marine life.

Lowest temperatures in 1970 were recorded in January with averages ranging from 9.2° C in San Antonio Bay to 20.2° C in the Lower Laguna Madre. While in 1969 temperatures ranged from 12.9° C in San Antonio Bay to 21.8° C in the Lower Laguna Madre.

A gradual increase in water temperatures was noted from March through May 1969. Average temperatures ranged from 14.6° in the Upper Laguna Madre in March to 27.8° C in the Lower Laguna Madre in May. In 1970 water temperatures ranged from 14.7 in the Galveston Bay area in March to 27.9 in the Lower Laguna Madre in May.

Water temperatures from June through August 1970 were slightly lower (0.6°C to 0.9°C) than those recorded in 1969, but generally followed normal seasonal trends. Water temperatures increased from an average of 27.2°C in June 1970 to 29.5°C in August 1970.

Average water temperatures followed a decreasing trend from September through December of both years (1969-1970). September 1970 water temperatures ranged from 27.3°C in Matagorda Bay to 29.6°C in Aransas Bay.

December 1970 temperatures were only 0.5°C lower than 1969 and ranged from 14.1°C in Aransas Bay to 21.3°C in Corpus Christi Bay.

Tide - Tide levels were generally low throughout winter months with exception of high tides caused by an unseasonal storm with strong winds officially reported by the Port O'Conner U. S. Weather Bureau station with gusts of up to 80 m.p.h. These strong winds hit the coast from Brownsville to Sabine Pass on February 13, 1969. The Galveston Bay area reported tides of up to four feet above normal. In the Corpus Christi area high tides opened up three passes across Padre Island.

Tide levels were low in most areas during March of both 1969 and 1970. April tides gradually increased to normal and remained normal through May.

Hurricane Celia on August 3, 1970 caused great damage from high tides and winds of up to 180 m.p.h.

Highest tides generated along the Texas coast by Hurricane Celia were 9.2 feet at Port Aransas Beach and 9.0 feet at the Port Aransas jetties. Mustang Island had a high tide of 7.9 feet above sea level. Elsewhere, highest tides were from four to six feet along the coast from Corpus Christi Bay to Galveston Bay.

Corpus Christi tides dropped 4.5 feet momentarily when winds were out of the northwest. The Corpus Christi Ship Channel had tides of up to 4.9 feet above sea level.

Minor flooding occurred in low lying areas from Corpus Christi Bay to Galveston Bay.

Tides were high during September as a result of the autumnal equinox. November and December tides were noticeably low.

Dissolved Oxygen - Dissolved oxygen sampling was initiated in June 1969 at all stations from Galveston to the Lower Laguna Madre. Summer averages remained above a critical level but showed a general decline from June (6.2 ppm) through August (5.1 ppm), Figures 11 and 12. The Corpus Christi Bay area and the Lower Laguna Madre consistently had the lowest readings during summer. Area averages ranged from 7.7 ppm in San Antonio Bay in June to 2.7 ppm in Corpus Christi Bay in August (Table 4).

Dissolved oxygen increased from an average of 5.9 ppm in September to 7.6 ppm in November as a result of decreasing water temperatures.

December readings were slightly lower and averaged 6.6 ppm. There was a direct correlation between increasing dissolved oxygen and decreasing water temperatures.

Diurnal samples taken in the Upper Laguna Madre ranged from 3.0 ppm at 6 a.m. to 8.0 ppm by 6 p.m. Samples taken every four hours in August were as follows:

	<u>10 a.m.</u>	<u>2 p.m.</u>	<u>6 p.m.</u>	<u>10 p.m.</u>	<u>2 a.m.</u>	<u>6 a.m.</u>
Surface	4.0	7.0	8.0	6.0	4.0	3.0
Bottom	4.0	7.0	8.0	6.0	4.0	3.0

Diurnal sampling in the Lower Laguna Madre in August ranged from 2.8 ppm at 6:30 a.m. to 5.6 by 3:30 p.m. Dissolved oxygen decreased from 3:30 p.m. to 6:30 p.m. despite an increase in wind velocity.

Winter samples taken in the Lower Laguna Madre ranged from 3.4 ppm at 8:15 a.m. to 6.2 ppm at 11:15 a.m. Results of diurnal sampling are presented in Tables 5 and 6.

Hydrogen Ion Determinations - Hydrogen ion determinations were initiated in June 1969 in all areas except the Upper Laguna Madre.

Summer pH readings were basic at most stations and in July ranged from an average of 7.4 in the Lower Laguna Madre to 8.5 in the San Antonio Bay area.

Average pH readings along the upper coast, from the Galveston Bay area to the San Antonio Bay area, ranged from 8.06 to 8.20. Areas from the Aransas Bay area, south to the Lower Laguna Madre ranged from 7.70 to 8.04.

Highest pH readings were recorded in the Matagorda Bay area with an average of 8.2 while lowest pH readings were recorded in the Lower Laguna Madre with an average of 7.7.

Annual pH readings ranged from 7.9 to 8.1 in 1969 while 1970 readings ranged from 8.0 to 8.2. Table 7 presents pH readings for 1969 and 1970 by month and by area. Figure 13 presents pH readings by area for 1969.

Turbidity - Turbidity readings were 9.6 per cent lower in 1970 than in 1969, probably as a result of calmer weather, since rainfall and runoff readings were higher in 1970 than in 1969.

A steadily increasing trend was exhibited from January through March of both years.

In 1970 average turbidities ranged from 48 ppm in January to 60 ppm in March while in 1969 turbidities ranged from 41 ppm in January to 61 ppm in March.

Turbidity peaks were reached in May of both years with average readings of 61 ppm in 1969 and 60 ppm in 1970.

Turbidities generally declined from June through December and in 1970 ranged from 42 ppm in June to 30 ppm in December. Table 8 presents turbidity readings for 1969 and 1970 by month and by area.

River Discharge - River flow measurements were available for the Trinity, Colorado, Guadalupe, Aransas, Mission and Nueces Rivers for 1969 and for the Guadalupe, Aransas and Mission Rivers in 1970 (Table 9).

The Trinity River has received an average of 5,106,000 acre-feet annually and in 1969 received 6,986,210 acre-feet from January through September. Data for 1970 was not available for this area at the time of this writing.

The San Antonio Bay area which receives an average of 1.4 million acre-feet through the Guadalupe-San Antonio River Systems received 1,082,080 acre-feet in 1969 through the Guadalupe River alone. In 1970 it received 1,050,450 acre-feet through the Guadalupe River.

The Aransas Bay area received an average of 160,000 acre-feet from the Aransas and Mission Rivers. In 1969 it received 65,602 and in 1970 64,152 acre-feet.

The Corpus Christi Bay area has a larger watershed than the Aransas area and in the past has received 600,000 acre-feet annually. In 1969 it received 67,400 acre-feet.

The Upper and Lower Laguna Madre areas have no reliable measuring stations and consequently there is no information on the amount of runoff for this area.

Habitat Modification - Lower Laguna Madre - Modifications in this area included routine maintenance dredging of the Intracoastal Waterway along with dredging in the Port Mansfield Channel and dredging of a new channel in the Laguna Vista Development area.

Upper Laguna Madre - Dredging and drilling for mineral development along with maintenance dredging of the Intracoastal Canal altered approximately six acres of good to excellent bay bottom in this shallow lagoon.

Corpus Christi Bay - The expanding economy of the Corpus Christi area brought about numerous habitat modifications including the following:

1. Dredging a 5,400-foot channel in Nueces Bay.
2. Laying a 12-inch pipeline for a distance of 17,200 feet in Nueces Bay.
3. Dredging a 5,000-foot channel in Corpus Christi Bay.
4. Dredging a channel in Redfish Bay with 11,150 cubic yards of spoil.
5. Construction of a boat slip in Redfish Bay.
6. Laying a 20-inch water line in Redfish Bay.
7. Placement of 6 oil wells in Corpus Christi Bay, 1 oil well in Redfish Bay and 1 well in Nueces Bay.
8. Laying a 2½-inch pipeline for a distance of 13,200 feet in Corpus Christi Bay.

9. Bulkheading a section of shoreline along the west shore of Corpus Christi Bay.
10. Dredging of a channel from Corpus Christi Bay to Nueces Bay which resulted in spoil spreading 300 feet beyond designated spoil area.
11. Dredging mud shell in Nueces Bay Tracts 710 and 749.
12. Increasing Central Power and Light's power plant to twice the amount of its previous capacity with an increase of heated water discharge into Nueces Bay.

Aransas Bay - Channel dredging in the Aransas area included the following modifications:

1. South Beach - 1 acre of prime nursery area badly damaged by channel dredging without a permit.
2. Traylor Island - 1 acre destroyed by a channel and its spoil.
3. Redfish Bay - 20 acres destroyed by an oil well channel, a basin and its spoil.
4. Little Bay - 2 acres damaged by dredging for channels and fill.
5. Fulton Beach - 1/4 acre destroyed by a pipeline and its spoil.

San Antonio Bay area - Mud shell dredging and drilling of an oil well in State Tract 117 were the only modification reported from this area.

Matagorda Bay - Habitat modification in this area included:

1. Drilling oil wells in State Tracts 11, 21, 22, 177, 193, 196, 234, 285, 294, 308, 311, and 316.
2. Redredging part of Crawford Channel and dredging a turning basin east of the Palacios Turning Basin.
3. Constructing a ferry crossing, erecting a bulkhead, and dredging channel bottom in the Colorado River.
4. Placing a 6-inch pipeline in the Lavaca River.
5. Widening the ship channel.
6. Laying a pipeline in Lavaca Bay in State Tracts 26, 38 and 39.
7. Maintenance dredging of the Port Lavaca Harbor.
8. Dredging an oil well channel in Matagorda Bay Tracts 89, 104, 115, 116 and 119.

Galveston Bay - Modifications in this area included the following:

1. Dredging of a barge canal through Clear Lake.
2. Bulkheading around a pipeline on the San Leon shoreline.
3. Construction of a hurricane protection levee.
4. Channel dredging for an access channel in Bastrop Bay.
5. Laying five pipelines in Galveston Bay.

Objections were submitted on permits concerning oil well sites in Upper West Bay and on a permit concerning flood control levee in the Baytown area.

Commercial Landings - Commercial landings in 1969 and 1970 indicate that white and brown shrimp and blue crabs were more abundant in areas of higher rainfall and lower salinities while finfish were generally more abundant along the lower coast where rainfall was lower and salinities were higher.

Shrimp production totals ranged from 4,285,100 pounds in Galveston Bay to 26,000 pounds in the Upper Laguna Madre in 1969. In 1970 shrimp production ranged from 3,021,985 pounds in Galveston Bay to 220,680 pounds in Corpus Christi Bay.

Blue crab production in 1970 ranged from 2,561,014 pounds in Galveston Bay to 4,720 pounds in the Upper Laguna Madre.

Finfish production in 1970 ranged from 960,092 pounds in the Lower Laguna Madre to 105,753 pounds in Corpus Christi Bay. Production in Galveston Bay totaled 334,739 pounds. Commercial landings by species and by area for 1969 and 1970 are presented in Table 10 and Figure 14.

Salinity Reduction - The extent of salinity reduction which occurs in the Upper Laguna Madre due to water entering from Corpus Christi Bay was determined by Richard Harrington (November 1969-September 1970).

Observations* were made at Kennedy Causeway located between the Upper Laguna Madre and Corpus Christi Bay indicate that from January 1968 through December 1969 water currents were as follows:

	<u>1968</u>	<u>1969</u>
North	54.9%	50.6%
South	39.9%	41.7%
Variable	5.2%	7.7%

During high northerly winds, water entered the lagoon from the north and generally followed the Intracoastal Canal (Figure 15).

Samples taken at the onset of light southerly winds following strong northers indicate that less saline water from Corpus Christi Bay penetrated as far south as Point of Rocks (Figure 16).

During strong southerly winds water entered the lagoon from the south and moved the more saline water north (Figure 17).

Light northerly winds did not generate south-bound currents of significant magnitude to allow appreciable quantities of water to enter the lagoon (Figure 18).

In general, salinity reduction occurred in the Upper Laguna Madre when strong north winds of at least two day's duration pushed less saline water from Corpus Christi Bay into the lagoon. Periods of significant salinity reduction by this method are limited to an average of 50 to 60 days per year.

Corpus Christi Bay, immediately north of the Upper Laguna Madre, receives considerable run-off from the Nueces River. Martinez (1969 and 1970) determined salinity levels in Corpus Christi Bay adjacent to the Upper Laguna

* Records available from Texas Highway Department, Corpus Christi, Texas

Madre for the same period in which the project was conducted. Salinity at this location proved to be consistently lower than that of the lagoon. Salinities taken from incoming tides in Corpus Christi Pass which connects Corpus Christi Bay with the Gulf of Mexico were also consistently lower than those in the lagoon.

Simmons (1957) gives a thorough account of relative effects of wind and tides on water levels in the Upper Laguna Madre. Wind intensity and direction were found to be more significant in determining tide levels and water movement than were cyclic diurnal tides.

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Figure 1
Galveston Bay Hydrographic Stations

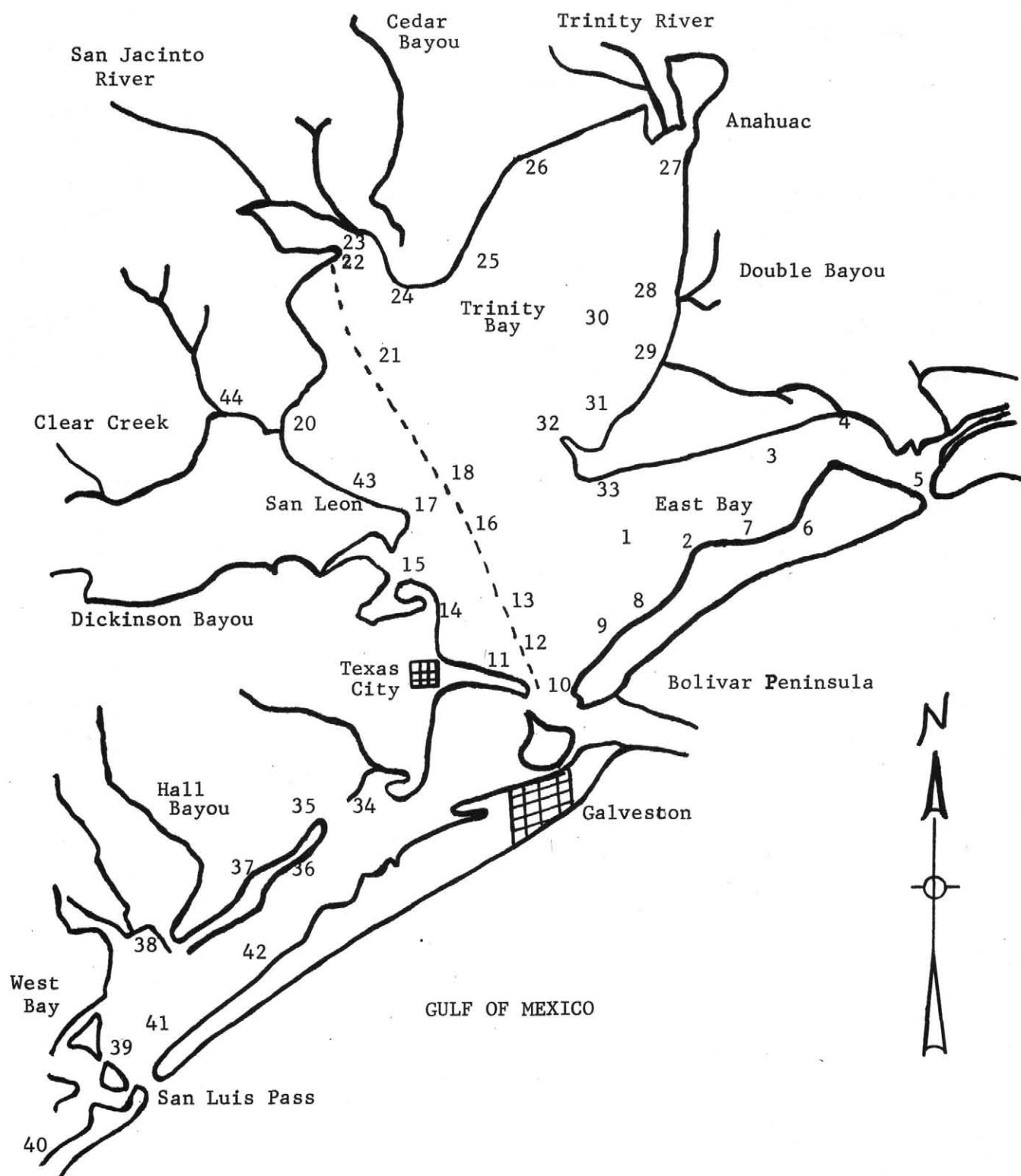
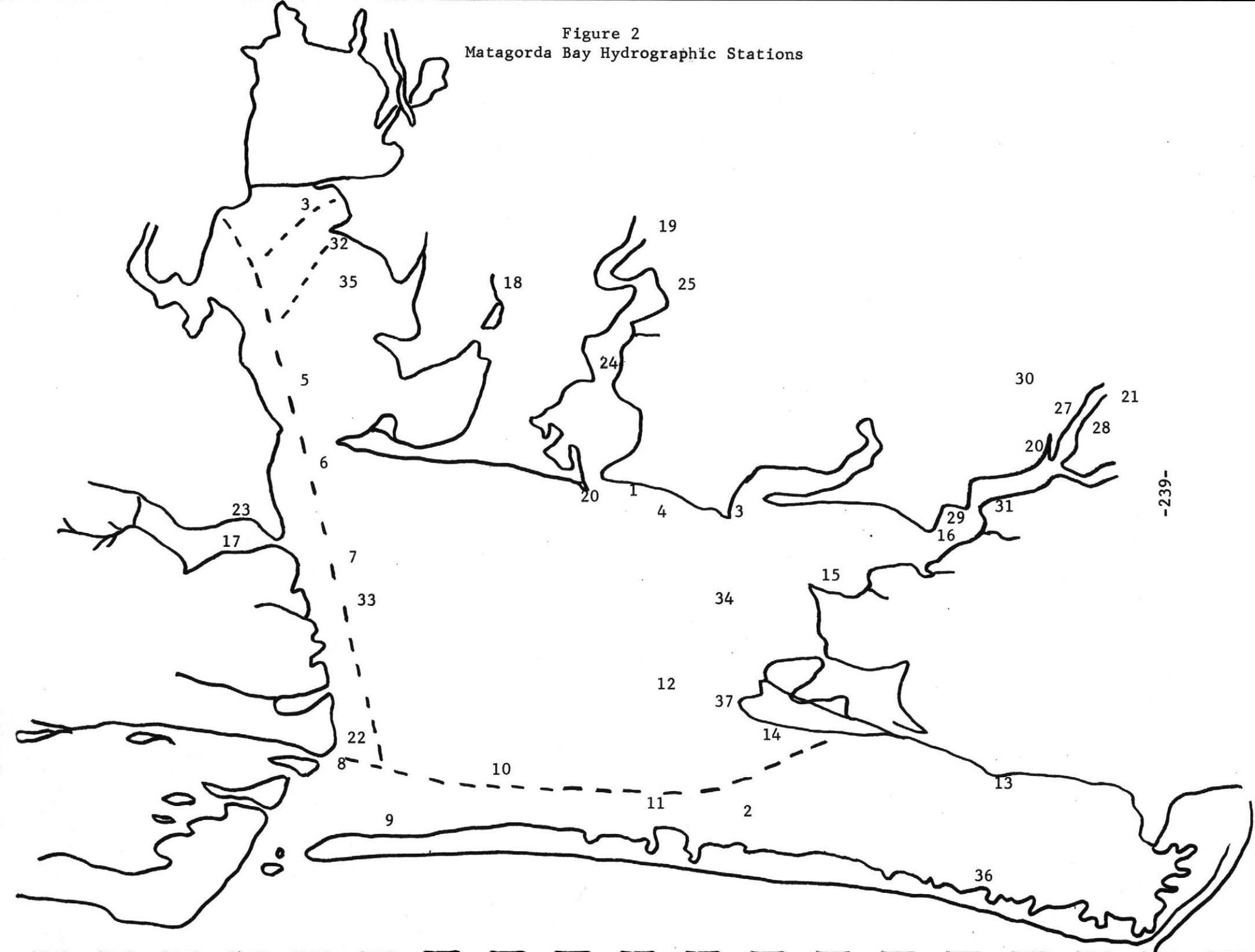


Figure 2
Matagorda Bay Hydrographic Stations



Matagorda Bay Hydrographic Stations

1	Carancahua Pass	20	Turtle Bay
2	Cotton Bayou	21	Red Bluff
3	Wells Point	22	Port O'Conner
4	XA2 Well	23	Powderhorn Lake (seine)
5	Lavaca 60	24	Lavaca Causeway
6	Lavaca 47	25	Port Alto
7	La Salle	26	Carancahua Causeway (seine)
8	Buoy 68	27	Crescent V
9	Range D	28	Turtle Basin (seine)
10	Middle 2	29	Grassy Point
11	Piling 3	30	Cash Creek
12	Beacon 2	31	College Port Cemetary
13	Mad Island	32	Basin 88
14	The Cedars	33	Lavaca 35
15	Coon Island	34	Beacon 40
16	Fence Post	35	Cox Bay
17	Powderhorn Lake	36	Watermelon Mott
18	Keller Creek	37	Palacios Point
19	Carancahua Causeway		

Figure 3
San Antonio Bay Hydrographic Stations
January 1969-May 1969

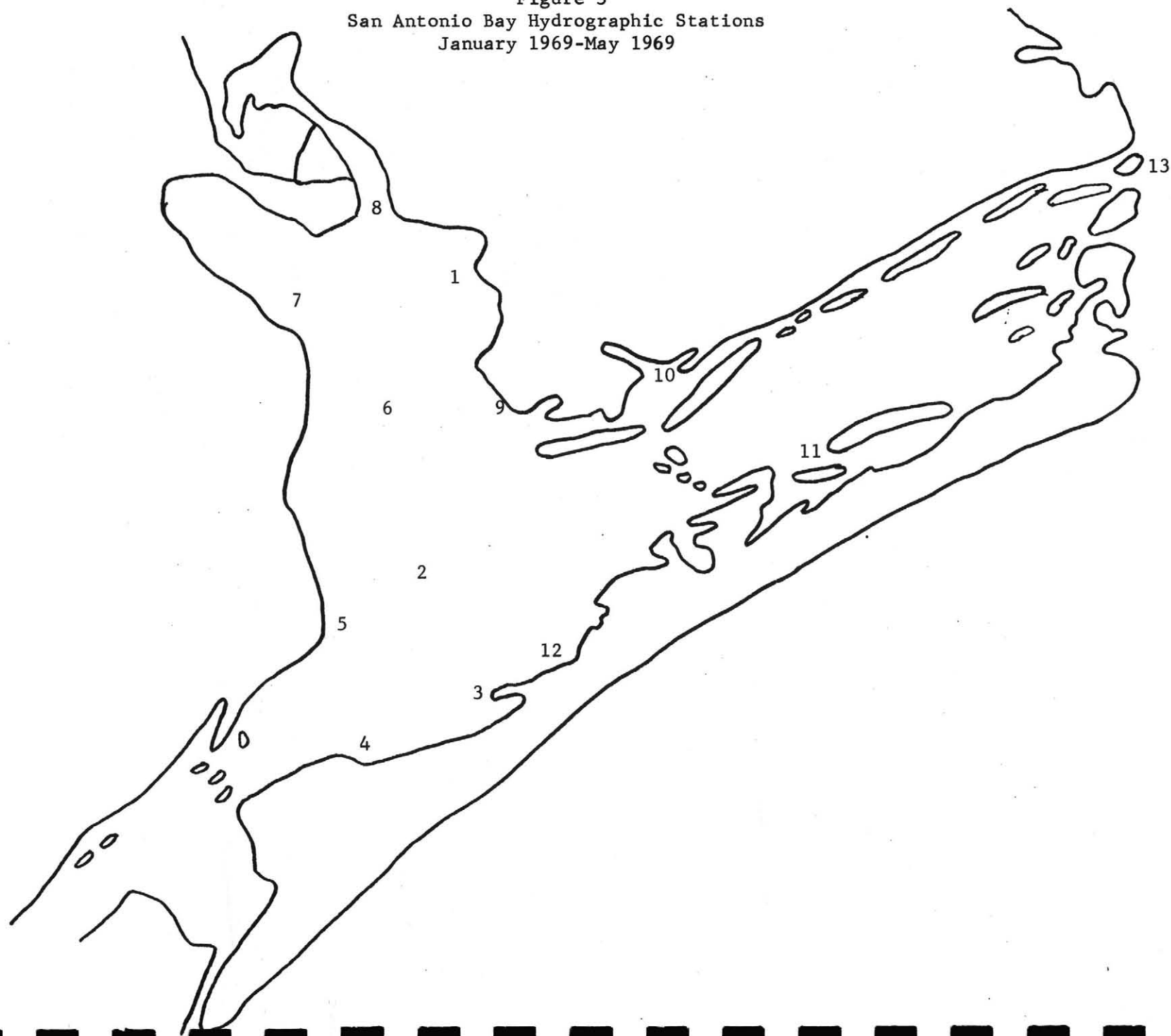
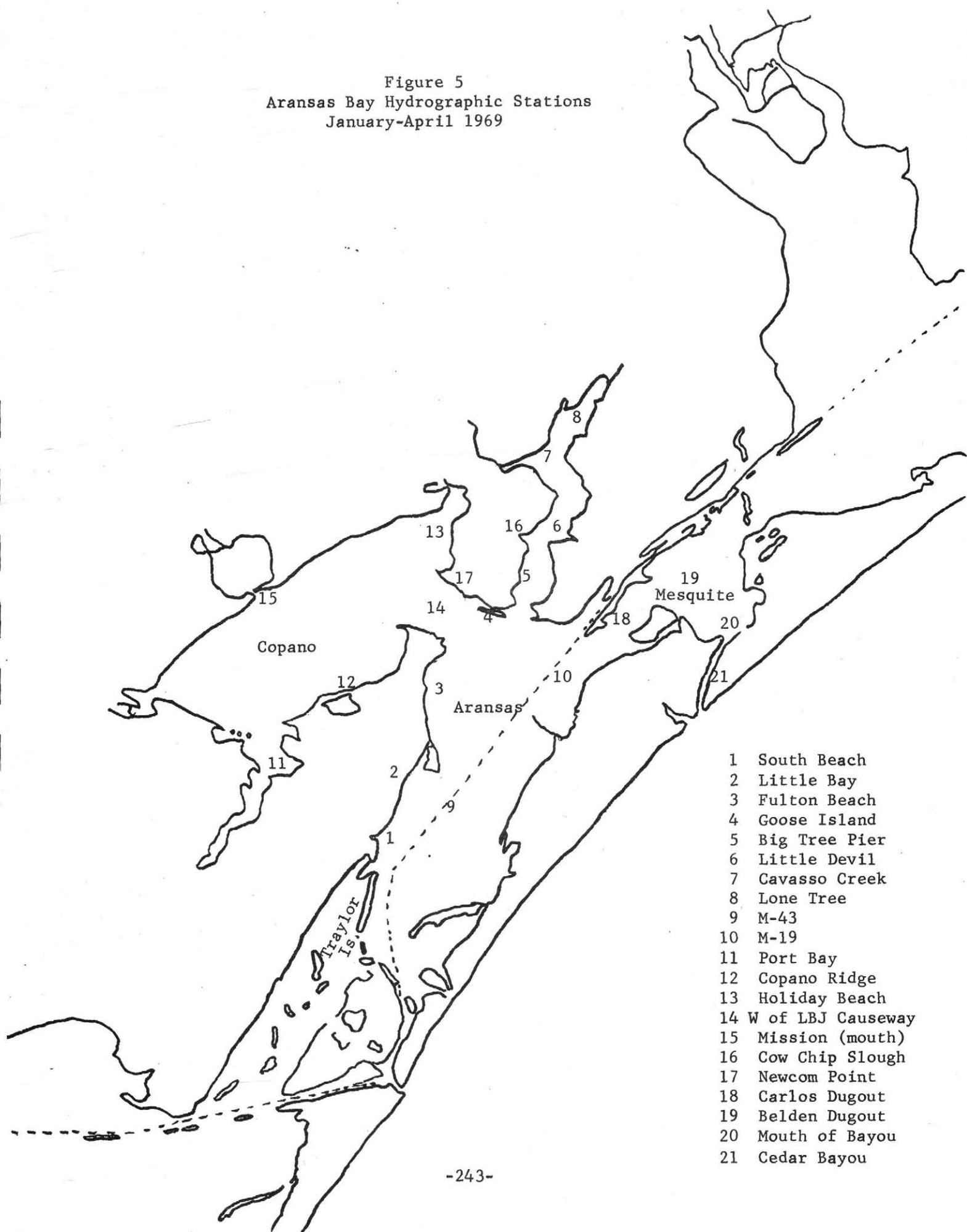


Figure 4
San Antonio Bay Hydrographic Stations
June 1969-December 1970



Figure 5
Aransas Bay Hydrographic Stations
January-April 1969



- 1 South Beach
- 2 Little Bay
- 3 Fulton Beach
- 4 Goose Island
- 5 Big Tree Pier
- 6 Little Devil
- 7 Cavasso Creek
- 8 Lone Tree
- 9 M-43
- 10 M-19
- 11 Port Bay
- 12 Copano Ridge
- 13 Holiday Beach
- 14 W of LBJ Causeway
- 15 Mission (mouth)
- 16 Cow Chip Slough
- 17 Newcom Point
- 18 Carlos Dugout
- 19 Belden Dugout
- 20 Mouth of Bayou
- 21 Cedar Bayou

Figure 6
Aransas Bay Hydrographic Stations
May 1969-December 1970

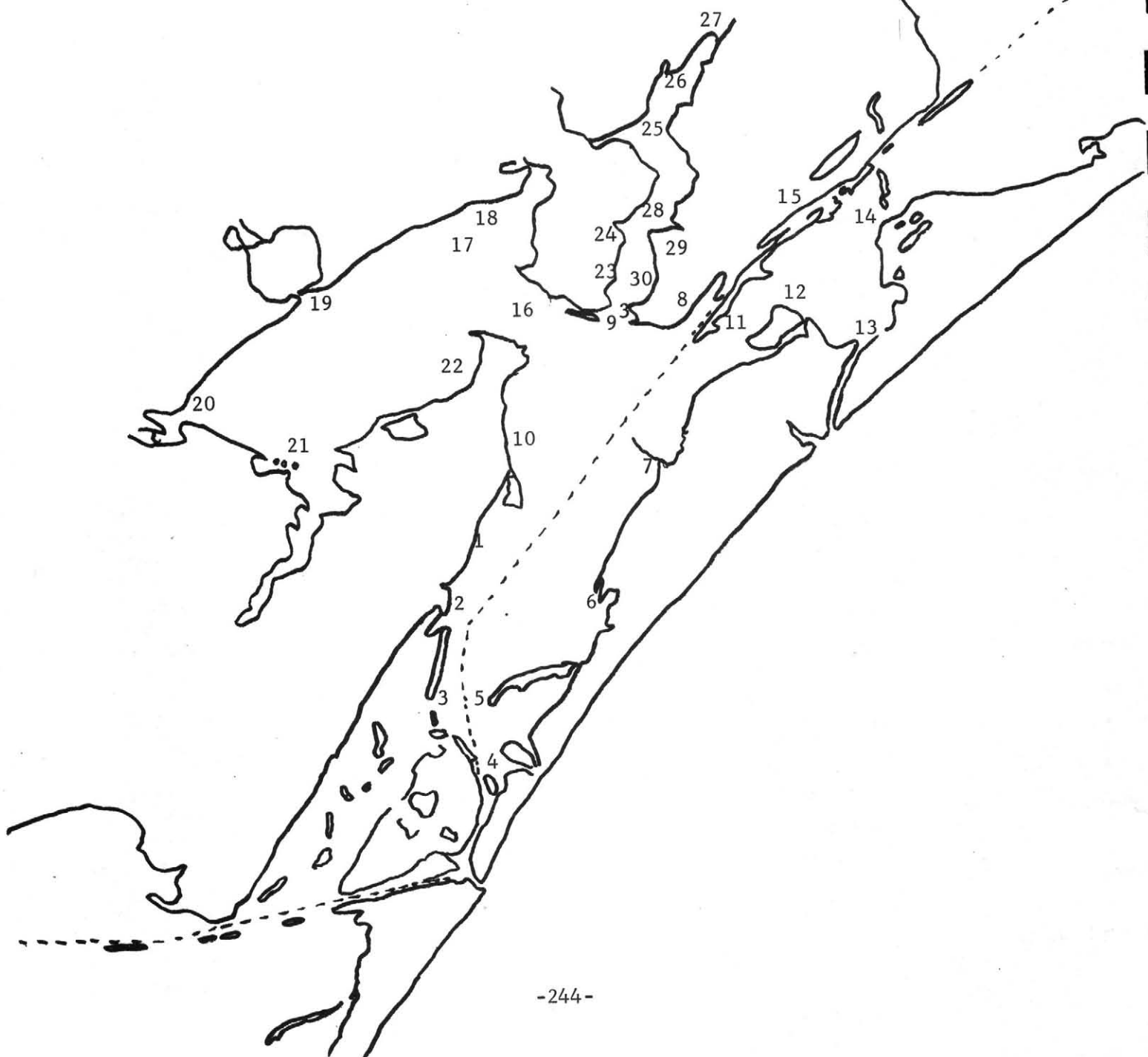


Figure 7
Corpus Christi Bay Hydrographic Stations

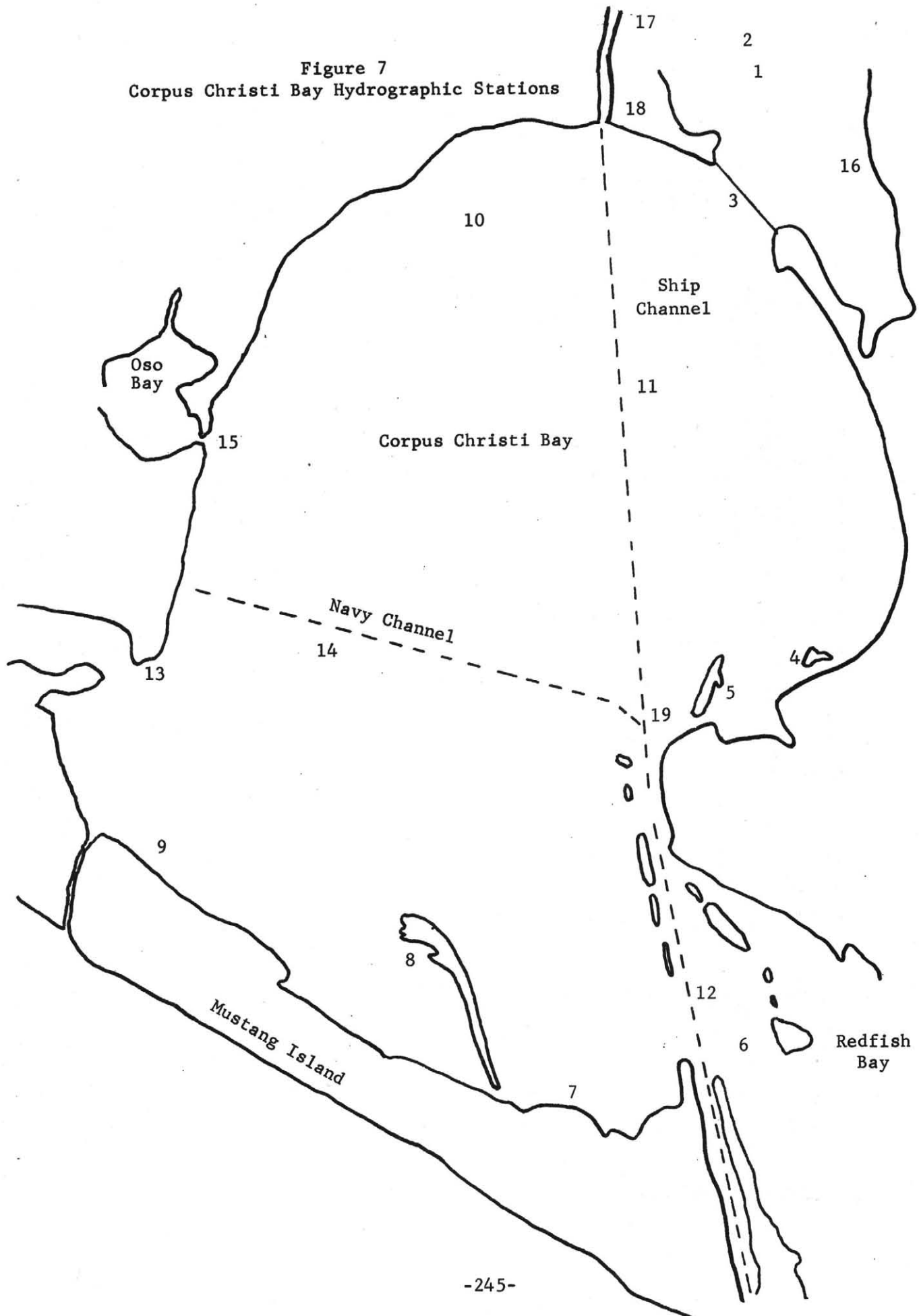


Figure 8 Upper Laguna Hydrographic Stations, 1969 and 1970

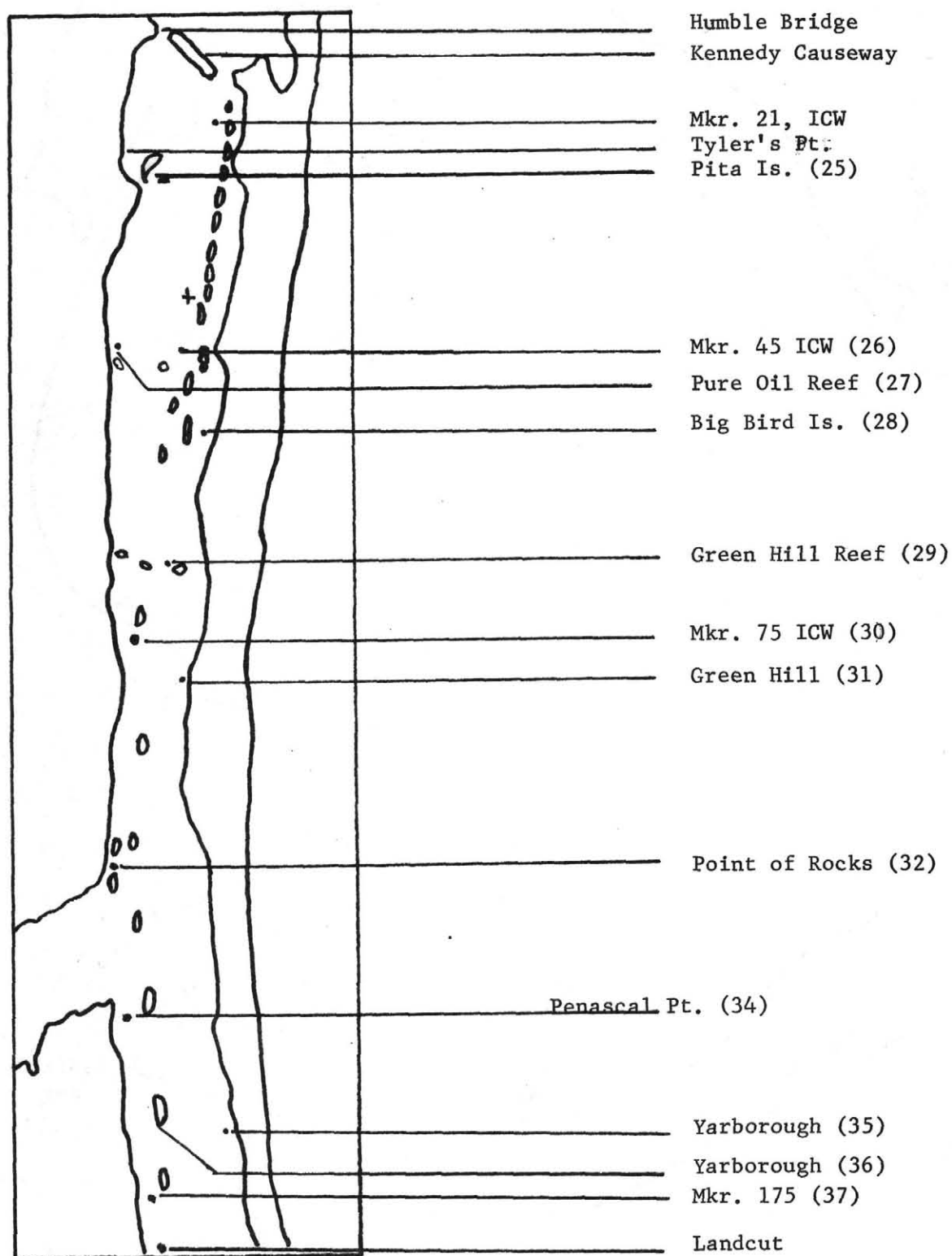


Figure 9 Lower Laguna Hydrographic Stations 1969-70

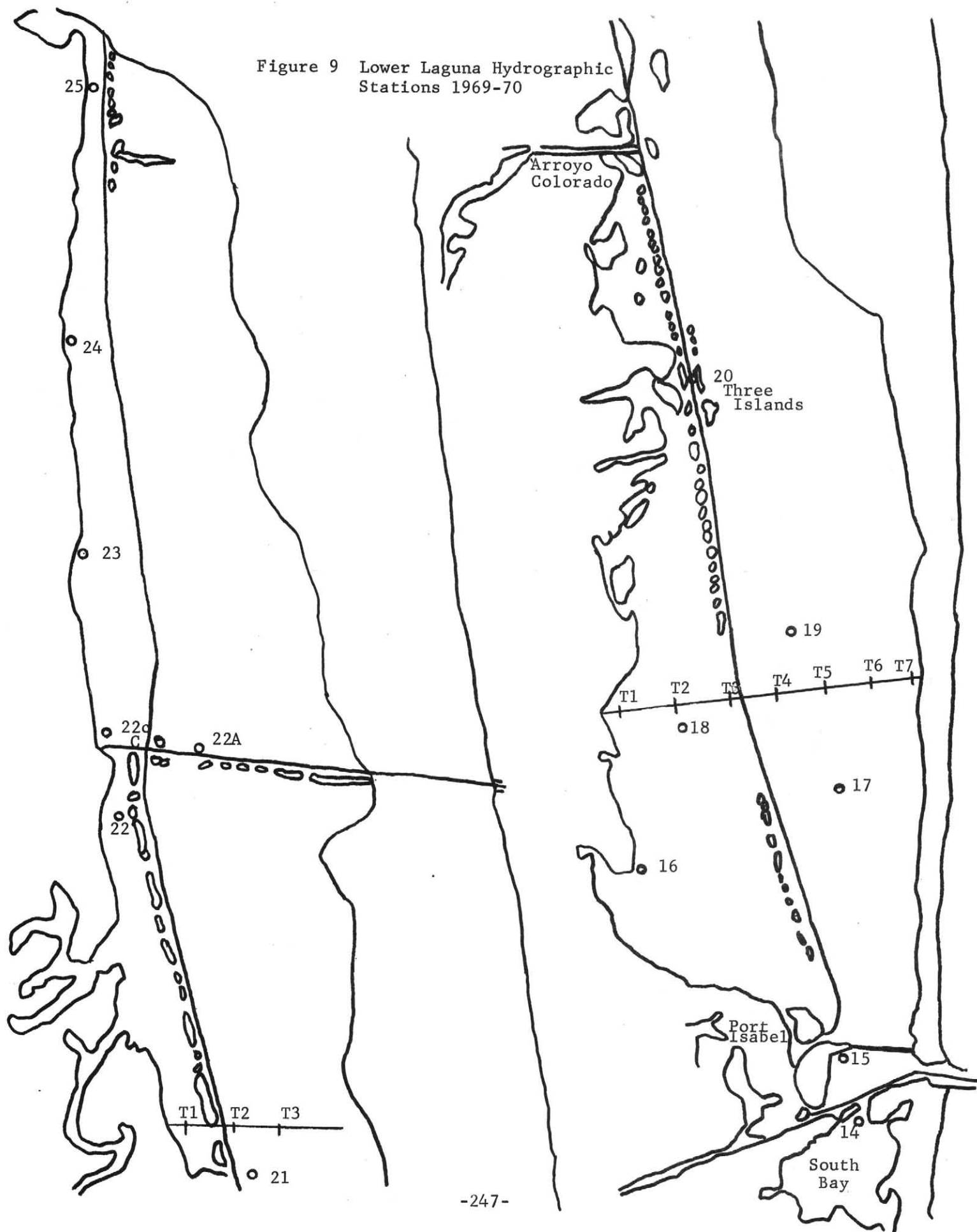


Figure 10 Salinity, Rainfall, Turbidity - 1969-1970

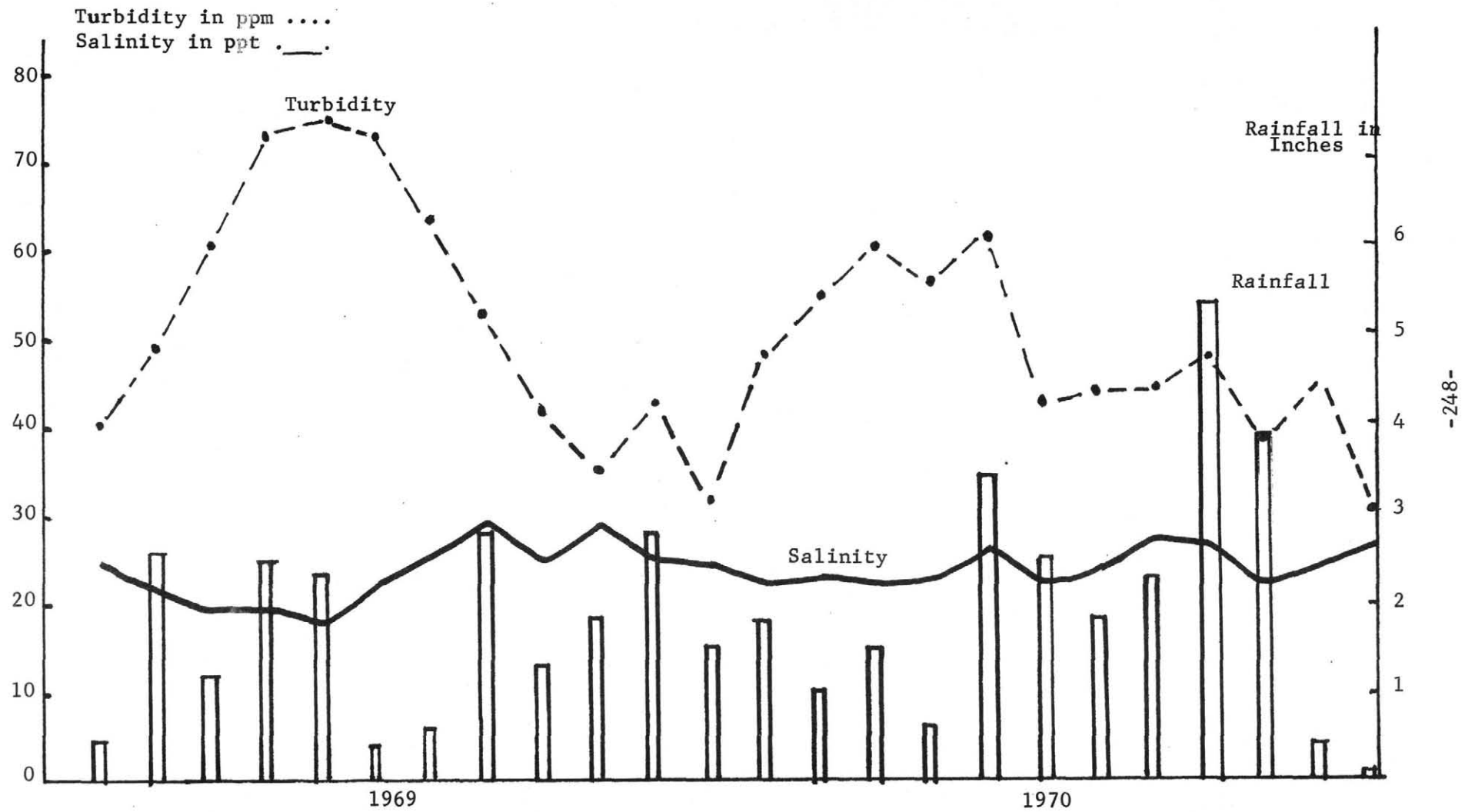


Figure 11 Dissolved Oxygen and Water Temperature 1969-1970

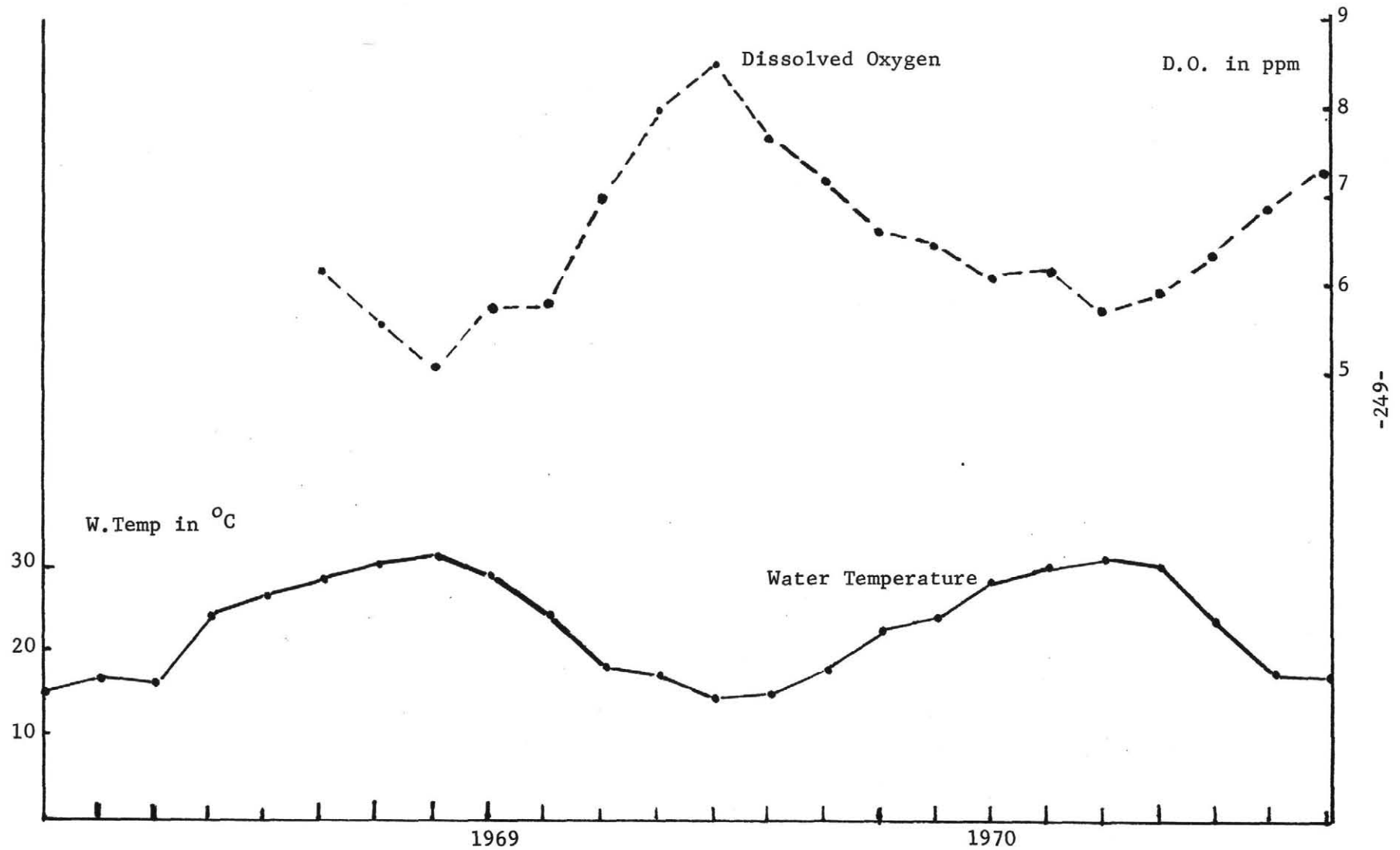


Figure 12 Surface Dissolved Oxygen by Area - 1969

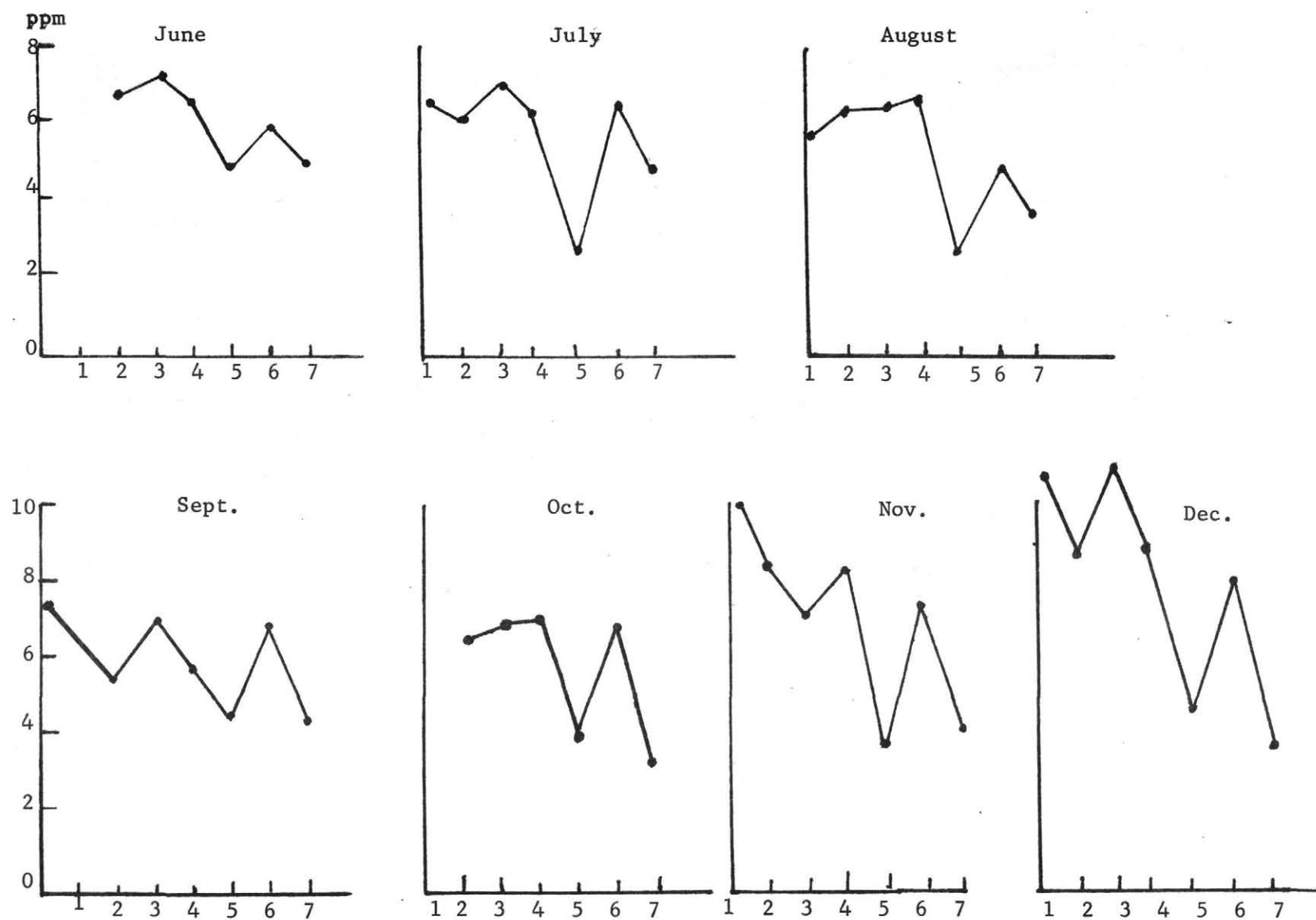


Figure 13 pH Readings by Area - 1969

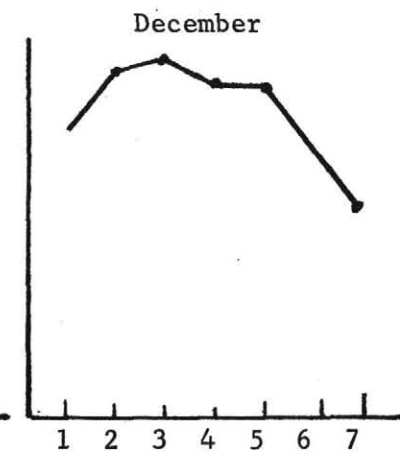
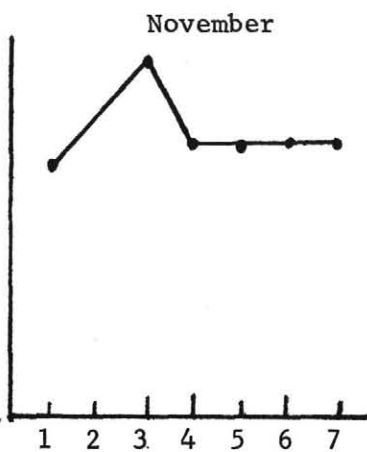
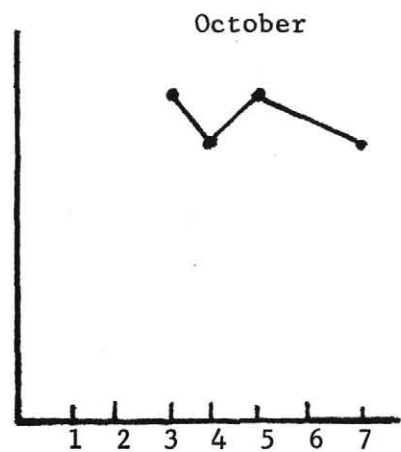
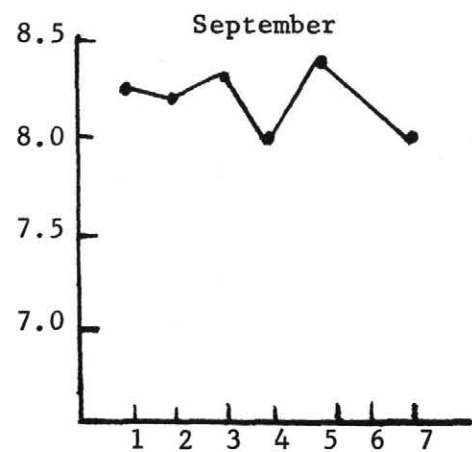
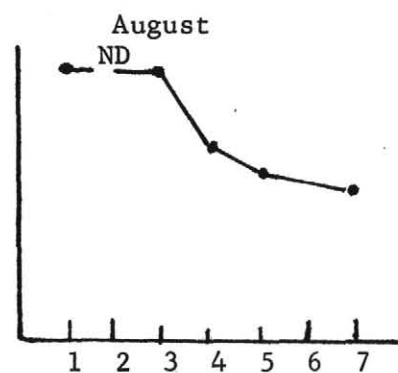
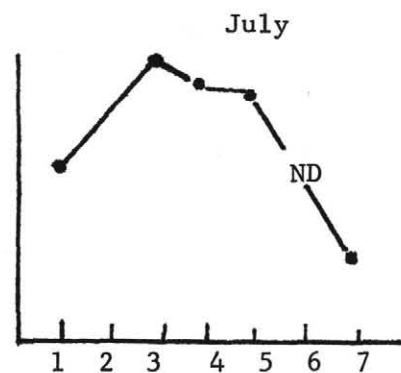
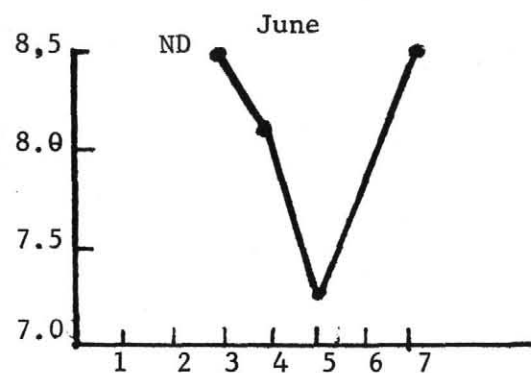


Figure 14 Commercial Landings by Area 1969-1970

— 1969
- - - 1970

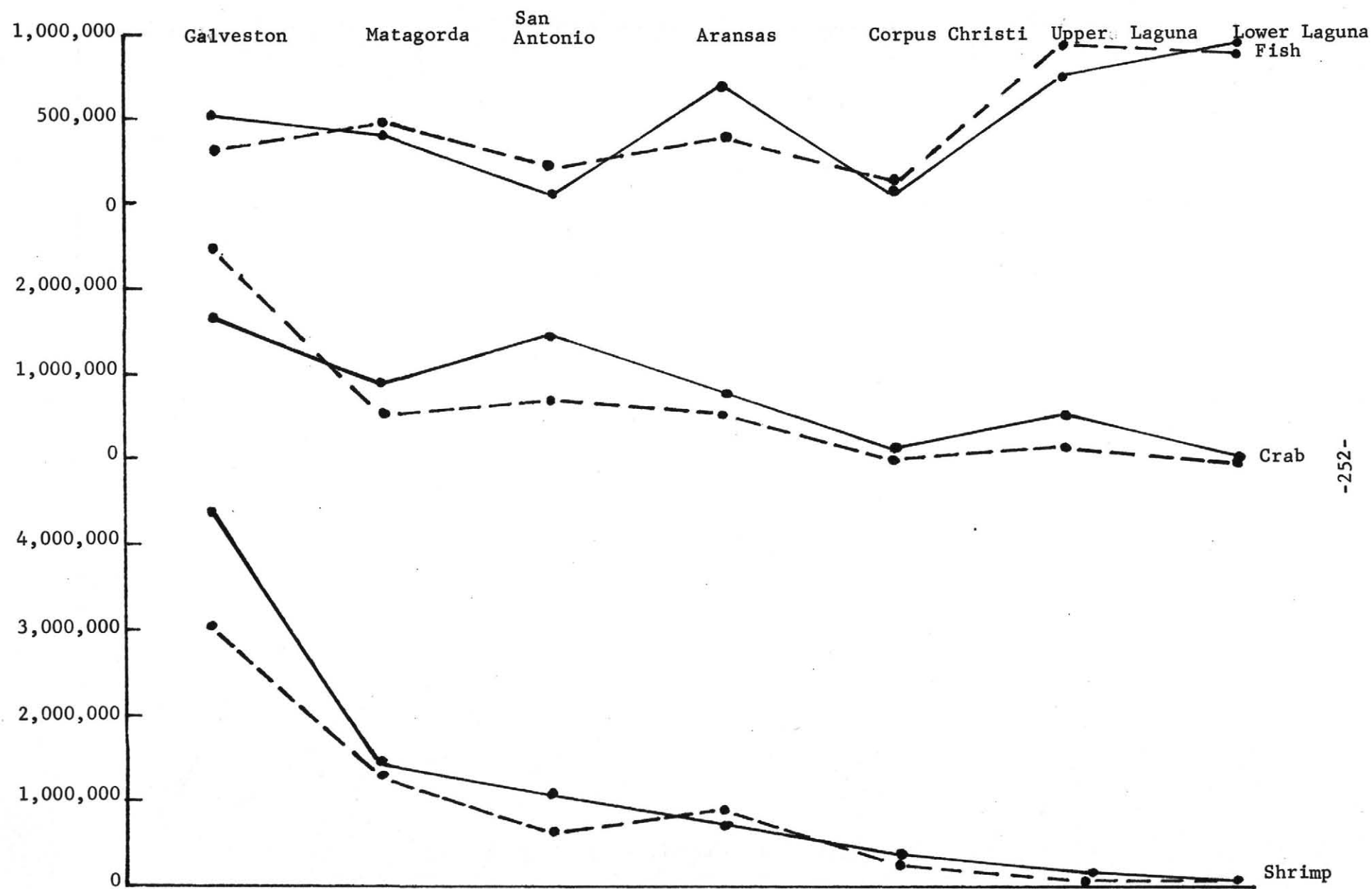


Figure 15 Upper Laguna Madre

Generalized Isohalines During High Northerly Winds

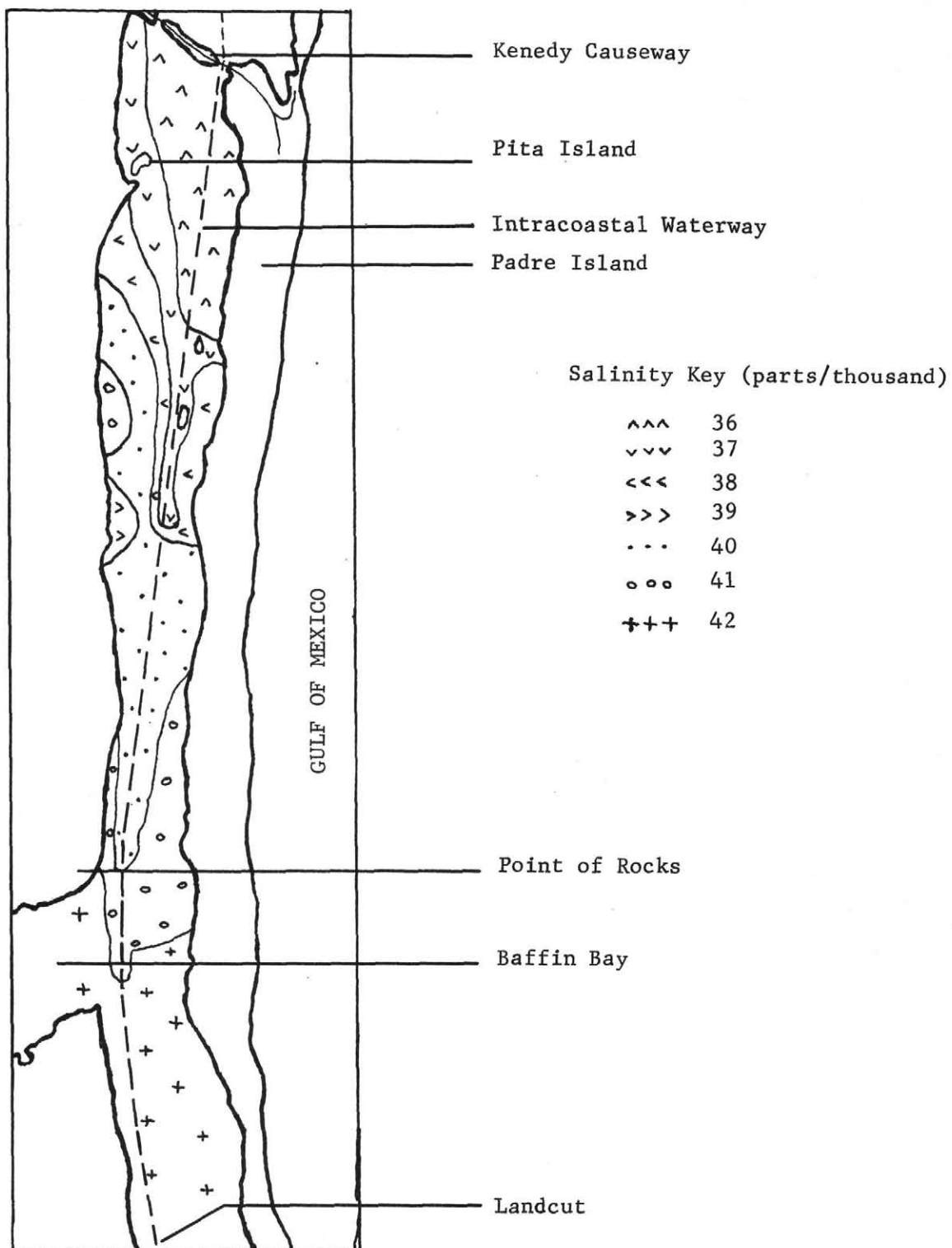


Figure 16 Upper Laguna Madre

Generalized Isohalines at the Onset of Light
Southerly Winds Following High Northerly Winds

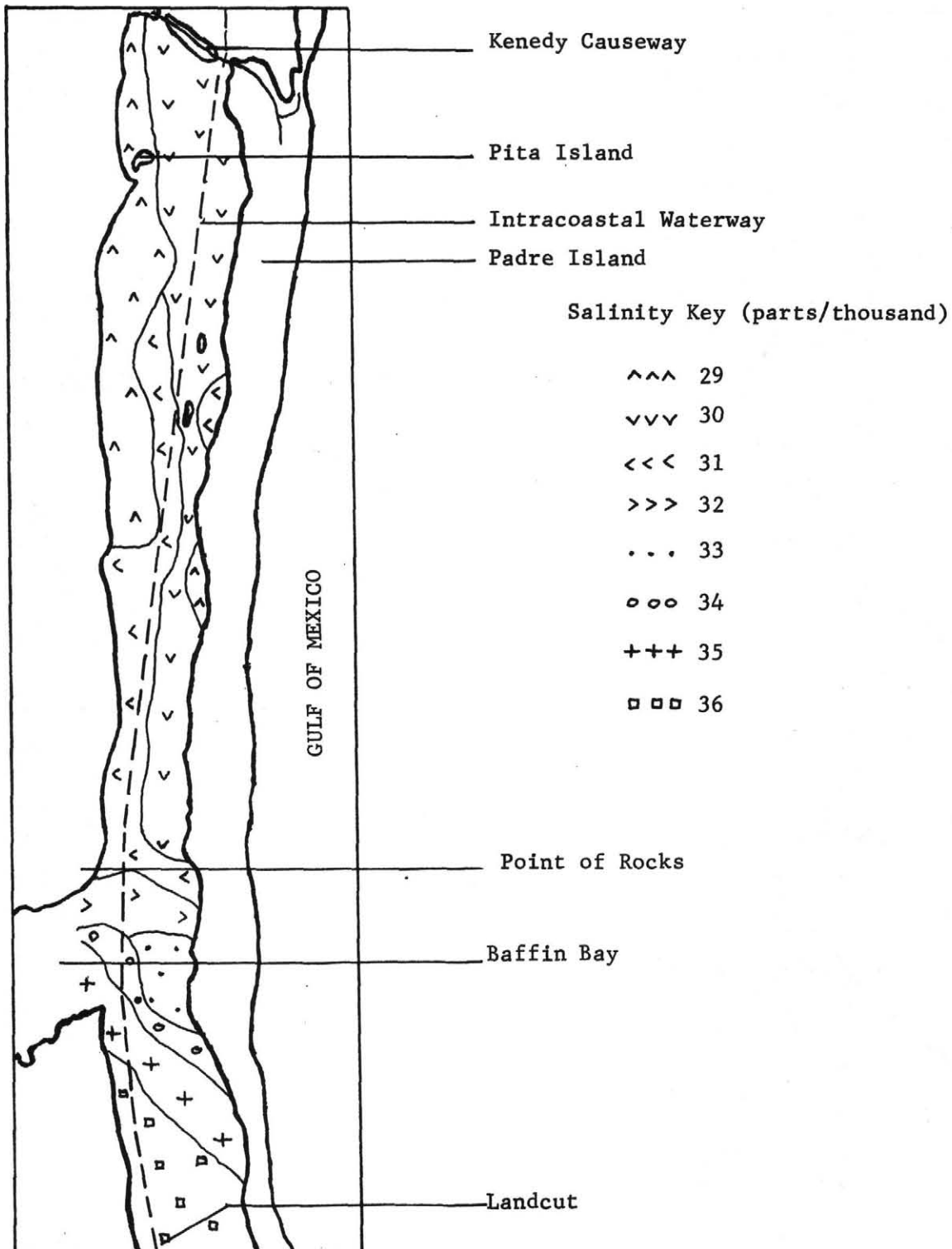


Figure 17 Upper Laguna Madre

Generalized Isohalines During High Southerly Winds Which Followed Light Southerly Winds

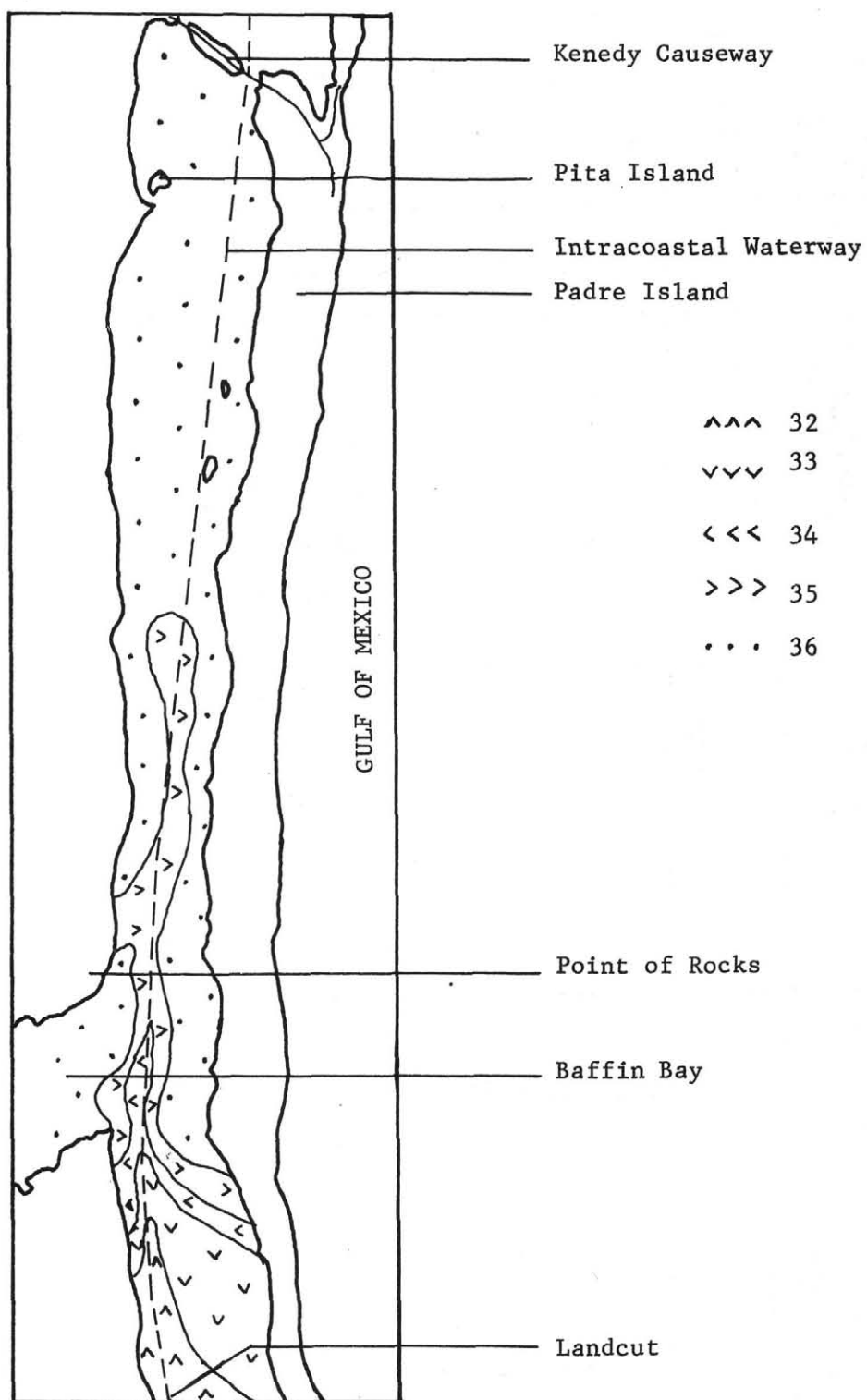


Figure 18 Upper Laguna Madre

Generalized Isohalines During Light Northerly Winds

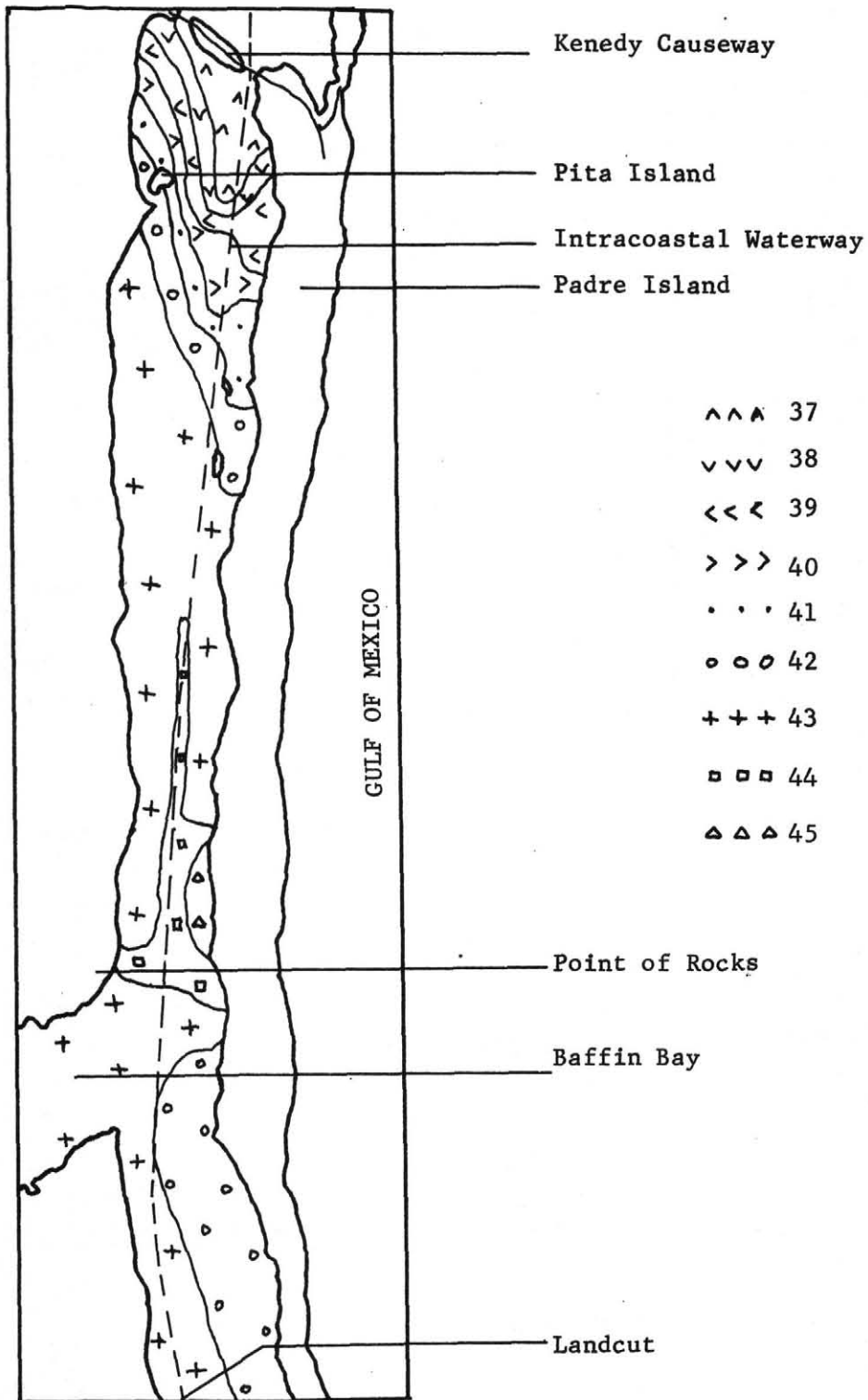


Table 1 Rainfall Monthly Totals by Area 1969-1970

Area	Yr	Jan.	Feb.	Mar	Apr	May	Jun	Jly	Aug	Sept	Oct	Nov	Dec	Total
Galveston	69	2.70	5.30	3.18	3.34	4.73	1.51	3.89	2.67	0.08	3.30	2.13	4.38	37.21
	70	1.93	2.52	5.08	2.21	14.39	0.26	2.28	2.03	6.22	9.09	1.54	0.64	48.19
Matagorda	69	0.51	4.63	3.88	7.97	2.89	1.05	2.00	3.37	2.58	5.54	3.30	4.04	41.76
	70	2.76	2.52	4.38	2.85	4.42	6.92	3.13	4.01	7.20	2.75	0.15	0.74	41.83
San Antonio	69	0.49	4.25	2.05	4.17	3.69	0.70	N.D.	4.00	3.31	2.75	3.67	2.49	31.57
	70	2.73	1.71	4.14	1.03	N.D.	1.29	3.48	2.20	6.67	8.24	0.10	0.64	32.23
Aransas	69	1.04	3.28	1.14	5.27	2.66	0.58	0.45	7.35	1.41	2.40	6.12	2.56	34.26
	70	2.49	1.12	2.44	0.65	5.26	1.51	4.31	2.54	9.36	10.17	1.00	0.60	41.45
Corpus Christi	69	0.35	2.92	0.49	2.89	2.09	0.13	0.03	2.89	2.05	2.85	5.09	1.87	23.65
	70	1.79	1.01	1.55	0.15	3.92	9.16	1.72	7.32	8.51	3.13	0.81	0.40	39.47
Upper Laguna	69	0.62	3.72	0.69	1.63	2.43	0.10	0.47	2.82	3.33	4.54	5.31	0.98	26.64
	70	2.69	1.02	1.68	0.22	6.04	5.01	1.30	3.78	10.57	3.11	0.68	0.44	36.54
Lower Laguna	69	0.90	2.07	0.84	0.18	5.36	0.42	0.12	4.48	3.34	3.21	3.13	0.24	24.29
	70	4.56	0.29	0.34	2.22	3.28	1.64	2.35	1.79	5.99	3.32	0.20	0.56	26.54
Total	69	6.61	26.17	12.27	25.45	23.85	4.49	6.96	27.58	16.10	24.59	28.75	16.56	
	70	18.95	10.19	19.61	9.33	37.31	25.79	18.57	23.67	54.52	39.81	4.48	4.02	

Table 2 Salinity (ppt) Monthly Averages 1969-1970

Area	Yr	Jan	Feb	Mar	Apr	May	Jun	Jly	Aug	Sept	Oct	Nov	Dec
Galveston	69	18.2	12.8	9.9	8.0	6.8	11.2	15.7	20.5	20.0	N.D.	22.8	22.9
	70	17.3	18.9	12.2	12.0	14.0	19.4	21.5	23.9	19.8	15.3	16.6	20.4
Matagorda	69	21.2	19.7	13.8	12.3	10.2	17.2	21.8	22.7	25.5	24.5	23.8	25.3
	70	23.8	24.5	19.7	17.9	25.2	17.8	24.8	24.3	21.9	17.7	21.7	23.9
San Antonio	69	15.8	14.7	9.7	7.2	6.0	7.9	10.7	15.4	18.4	21.8	21.4	17.3
	70	14.5	15.3	15.4	14.3	N.D.	12.1	8.2	12.6	16.0	18.1	17.7	19.2
Aransas	69	20.7	16.9	12.3	10.2	8.4	12.7	18.4	23.3	18.8	20.9	20.7	16.3
	70	14.1	16.6	16.9	17.9	19.2	15.8	17.7	21.4	21.7	10.9	14.1	15.5
Corpus Christi	69	30.3	31.0	28.6	28.4	27.9	28.9	31.6	37.1	35.2	28.8	26.2	26.6
	70	27.3	27.1	27.0	27.6	28.4	22.7	25.8	30.2	31.0	28.2	28.4	29.5
Upper Laguna	69	32.9	33.6	31.2	36.5	34.5	40.8	42.2	46.5	44.5	41.6	32.6	35.8
	70	31.8	33.9	34.8	37.2	37.8	34.5	39.0	41.7	43.6	36.9	40.7	40.6
Lower Laguna	69	36.2	32.1	33.1	37.2	32.5	36.6	38.7	38.1	36.5	37.7	38.2	31.7
	70	27.3	29.5	32.2	33.7	35.2	35.9	36.3	41.4	36.5	32.1	32.6	34.3

Table 3 Water Temperature ($^{\circ}\text{C}$) Monthly Averages 1969-1970

Area	Yr	Jan	Feb	Mar	Apr	May	Jun	Jly	Aug	Sept	Oct	Nov	Dec
Galveston	69	16.2	15.5	14.9	23.9	26.1	29.1	29.2	30.8	28.6	N.D.	16.1	13.6
	70	12.8	14.8	14.7	21.2	22.4	27.4	28.3	27.7	27.8	21.0	15.2	15.5
Matagorda	69	15.5	15.4	15.2	24.0	23.9	25.0	30.4	29.4	28.7	18.4	13.8	15.5
	70	14.7	16.3	15.1	22.9	16.6	28.8	29.3	29.3	27.3	21.2	19.8	14.3
San Antonio	69	12.9	16.5	14.9	23.9	26.1	29.1	29.2	30.8	28.6	N.D.	16.1	13.6
	70	9.2	13.4	19.1	17.9	N.D.	24.8	27.5	29.5	28.5	23.3	13.4	16.9
Aransas	69	16.6	14.2	15.9	23.4	26.6	27.2	29.5	29.7	28.1	24.0	16.6	16.5
	70	9.7	14.4	16.9	22.1	24.4	26.5	29.0	29.7	29.6	23.8	20.2	14.1
Corpus Christi	69	13.0	17.4	15.0	23.6	26.4	28.3	29.9	31.7	29.5	26.2	16.8	16.3
	70	15.3	14.7	18.2	19.3	24.1	26.2	30.0	31.4	28.8	26.9	16.5	21.3
Upper Laguna	69	14.0	19.1	14.6	25.2	27.3	29.4	30.7	30.9	29.4	25.2	18.6	21.0
	70	18.7	13.5	19.6	24.0	27.9	29.9	29.6	30.7	29.4	21.2	17.2	15.1
Lower Laguna	69	21.8	18.6	19.5	24.2	27.8	28.9	28.4	30.0	27.1	25.5	20.2	21.5
	70	20.2	17.3	18.5	24.1	23.7	27.0	28.0	28.3	28.8	23.1	16.5	18.4

Table 4 Dissolved Oxygen (ppm) Averages 1969-1970

Area	Yr	Jan	Feb	Mar	Apr	May	Jun	Jly	Aug	Sept	Oct	Nov	Dec
Galveston	69	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	6.3	5.9	7.6	N.D.	10.0	11.0
	70	10.6	8.4	8.8	7.9	7.8	6.9	7.2	6.9	5.8	7.0	8.4	8.4
Matagorda	69	N.D.	N.D.	N.D.	N.D.	N.D.	6.8	6.1	6.4	5.5	6.7	8.2	8.7
	70	9.3	7.5	8.6	7.0	6.9	6.6	6.3	6.0	6.7	7.5	7.3	10.2
San Antonio	69	N.D.	N.D.	N.D.	N.D.	N.D.	7.7	6.7	6.4	7.1	6.8	7.1	11.2
	70	10.9	10.0	9.3	9.6	N.D.	7.9	7.2	6.6	7.1	8.3	9.7	8.3
Aransas	69	N.D.	N.D.	N.D.	N.D.	N.D.	6.9	6.2	5.6	5.8	7.1	8.4	8.7
	70	10.0	8.6	7.8	7.5	7.7	6.6	6.1	6.4	7.1	7.1	7.1	8.3
Corpus Christi	69	N.D.	N.D.	N.D.	N.D.	N.D.	4.8	2.7	2.7	4.2	3.9	3.9	4.6
	70	4.2	7.2	5.5	5.3	4.6	4.9	6.0	4.2	4.2	3.9	4.5	4.3
Upper Laguna	69	N.D.	N.D.	N.D.	N.D.	N.D.	6.0	6.5	5.0	6.8	6.8	7.5	8.0
	70	8.2	7.9	7.5	4.5	6.9	5.2	5.9	5.5	6.2	7.5	7.9	7.7
Lower Laguna	69	N.D.	N.D.	N.D.	N.D.	N.D.	5.3	5.1	3.9	4.1	3.3	4.0	3.9
	70	6.8	4.5	3.6	4.4	5.2	5.1	5.3	4.6	4.8	2.9	3.7	4.0

Table 5 Lower Laguna Madre Diurnal Samples (Winter)

<u>Time</u>	<u>Water Temp.</u>	<u>Weather</u>	<u>Wind</u>	<u>D.O.</u>
11:15 a.m.	21.5	Rainy	W 8-10	6.2
2:15 p.m.	22.0	Clear-hazy	NNW 18-20	5.4
5:15 p.m.	21.5	Clear	NNE 8-10	5.2
8:15 p.m.	21.0	Clear	NNE 6-8	3.4
11:15 p.m.	20.0	Clear	NNE 6-8	4.0
2:15 a.m.	19.0	Clear	N 20-22	4.6
5:15 a.m.	19.0	Clear	N 20-22	3.6
8:15 a.m.	18.0	Clear	NNE 15-18	5.4

Date: December 30-31, 1970

Samples were taken in two feet of water over area which in summer yields shoal-grass located midway between the ICC and the spoil dumps at Marker 31 at Three Islands. Tide was slack at the beginning and changed to moving north to south with the arrival of the strong north wind.

Table 6 Lower Laguna Madre Diurnal Samples (Summer)

<u>Time</u>	<u>Water Temp.</u>	<u>Salinity</u>	<u>Wind</u>	<u>D.O.</u>
9:30 a.m.	27.2	42.186	SE 12	4.4
12:30 p.m.	28.8	43.298	SE 15-18	5.0
3:30 p.m.	29.6	43.298	SE 18-20	5.6
6:30 p.m.	28.5	43.298	SE 20-25	3.8
9:30 p.m.	28.4	44.410	SE 18-20	3.8
12:30 a.m.	28.2	45.518	SE 18-20	3.2
3:30 a.m.	27.5	41.630	SE 15	3.0
6:30 a.m.	26.5	45.518	SE 15	2.8
9:30 a.m.	27.0	42.186	SE 15	4.4

Date: August 19-20, 1970

Samples taken in two feet of water over shoalgrass on south edge of oil well channel located west of ICC Marker #29 at Three Islands. Tide was incoming in afternoon and early night, and was outgoing during late night and early morning.

Table 7 pH Monthly Average 1969-1970

Area	Yr	Jan	Feb	Mar	Apr	May	June	Jly	Aug	Sept	Oct	Nov	Dec
Galveston	69	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	7.9	8.4	8.2	N.D.	7.8	8.0
	70	8.2	8.3	7.8	7.6	7.9	8.2	7.8	8.1	7.9	8.0	8.1	N.D.
Matagorda	69	N.D.	N.D.	N.D.	N.D.	N.D.	8.5	8.1	8.0	8.1	N.D.	N.D.	8.3
	70	8.3	8.4	8.3	8.3	8.2	8.3	8.2	8.5	8.1	8.2	8.4	8.3
San Antonio	69	N.D.	N.D.	N.D.	N.D.	N.D.	8.5	8.5	8.4	8.3	8.2	8.4	8.4
	70	8.3	8.3	8.4	8.4	N.D.	8.0	8.1	8.3	8.4	8.3	8.3	8.3
Aransas	69	N.D.	N.D.	N.D.	N.D.	N.D.	8.1	8.3	8.0	7.9	7.9	7.9	8.2
	70	8.2	8.1	8.1	8.1	8.2	7.8	8.2	8.2	8.1	8.3	7.9	8.3
Corpus Christi	69	N.D.	N.D.	N.D.	N.D.	N.D.	7.2	8.3	7.9	8.4	8.4	7.9	8.2
	70	8.0	7.9	7.9	7.9	8.3	8.2	7.9	7.9	8.2	8.2	8.2	8.1
Upper Laguna	69	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
	70	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	7.7	8.3	8.1	8.1
Lower Laguna	69	N.D.	N.D.	N.D.	N.D.	N.D.	8.5	7.4	7.8	8.0	7.9	7.5	7.6
	70	8.1	7.9	7.7	7.7	N.D.	7.9	8.0	8.2	7.8	7.8	7.7	8.1

Table 8 Turbidity (ppm) Monthly Averages

Area	Yr	Jan	Feb	Mar	Apr	May	June	Jly	Aug	Sept	Oct	Nov	Dec
Galveston	69	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	65.8	79.1	54.9	N.D.	29.6	29.7
	70	67.5	80.0	191.5	105.2	83.0	54.6	69.8	91.2	69.4	84.1	28.0	70.4
Matagorda	69	35.6	51.6	80.9	79.4	91.9	23.2	20.7	39.5	39.2	16.1	25.3	24.0
	70	63.3	164.8	29.8	56.3	42.1	26.1	29.0	43.7	82.0	17.0	12.5	16.5
San Antonio	69	55.4	49.0	72.8	80.1	128.0	122.4	67.7	59.1	31.4	26.6	50.5	27.2
	70	55.0	129.0	58.0	35.1	N.D.	63.1	83.0	39.8	21.0	11.7	53.7	13.7
Aransas	69	35.9	48.8	46.6	62.7	56.4	66.5	84.6	66.9	44.6	45.6	53.1	36.9
	70	39.5	43.0	61.5	65.1	50.9	47.3	44.9	38.1	49.5	53.8	49.5	28.9
Corpus Christi	69	25.0	37.0	69.3	102.0	58.0	59.8	52.2	46.1	59.8	50.0	48.4	31.0
	70	43.0	38.0	29.0	32.0	62.0	45.6	36.5	46.3	54.0	34.0	38.0	58.1
Upper Laguna	69	58.0	48.0	38.0	42.0	44.0	61.0	49.1	53.5	35.0	34.0	42.0	43.1
	70	47.0	39.0	48.0	50.0	34.0	25.0	25.0	25.0	37.0	35.0	41.0	35.0
Lower Laguna	69	37.5	64.0	N.D.	N.D.	N.D.	108.7	101.6	27.1	28.3	39.2	48.5	26.6
	70	69.9	112.6	69.0	54.2	102.9	36.0	25.0	25.0	25.0	31.0	99.0	25.0

Table 9 River Discharge in Acre-Feet January 1969-September 1970

	<u>Trinity</u>	<u>Colorado</u>	<u>Guadalupe</u>	<u>Aransas</u>	<u>Mission</u>	<u>Nueces</u>
Jan. 1969	187,500	54,060	57,400	91	584	5,820
1970	ND	ND	110,500	176	3,780	ND
Feb. 1969	466,600	222,200	184,700	6,590	27,599	5,290
1970	ND	ND	103,500	97	565	ND
Mar. 1969	1,313,00	232,000	183,400	316	7,360	6,020
1970	ND	ND	173,000	486	5,310	ND
Apr. 1969	1,632,00	254,300	218,500	200	4,170	6,030
1970	ND	ND	114,300	80	6,090	ND
May 1969	2,227,000	342,200	200,100	1,900	9,850	7,740
1970	ND	ND	211,100	6,500	10,910	ND
Jun. 1969	862,500	53,600	91,360	97	3,560	9,250
1970	ND	ND	164,100	3,800	21,900	ND
Jly. 1969	125,700	22,830	52,990	1,520	611	9,970
1970	ND	ND	74,060	570	1,360	ND
Aug. 1969	88,520	12,300	43,560	123	499	10,010
1970	ND	ND	52,430	139	1,660	ND
Sep. 1969	83,390	14,410	50,070	62	471	7,270
1970	ND	ND	47,460	90	638	ND
Totals						
1969	6,986,210	1,207,900	1,082,080	10,898	54,704	67,400
1970	ND	ND	1,050,450	11,938	52,213	ND

Table 10 Commercial Landings by Area

		<u>Pounds of Fin Fish</u>					
	<u>Galveston</u>	<u>Matagorda</u>	<u>San Antonio</u>	<u>Aransas</u>	<u>Corpus Christi</u>	<u>Upper Laguna</u>	<u>Lower Laguna</u>
1969	556,700	415,400	84,700	728,200	91,700	723,500	967,600
1970	334,739	458,803	207,150	441,889	105,753	937,115	960,092
		<u>Pounds of Brown Shrimp</u>					
1969	475,500	108,700	210,900	162,500	88,800	26,600	0
1970	960,508	108,400	112,800	160,611	86,300	0	0
		<u>Pounds of White Shrimp</u>					
1969	3,809,600	1,319,100	887,700	572,500	238,500	1,500	0
1970	2,061,477	1,183,705	244,600	653,813	134,380	0	0
		<u>Total Pounds of Shrimp</u>					
1969	4,285,100	1,427,800	1,098,600	735,000	327,000	26,000	0
1970	3,021,985	1,292,105	357,400	814,424	220,680	0	0
		<u>Pounds of Blue Crabs</u>					
1969	1,705,700	891,000	1,484,000	724,200	152,500	528,500	0
1970	2,561,014	269,609	350,832	289,628	0	4,720	0

Table 11 Hydrographic Data for Lower Laguna Madre

Station	<u>January 1969</u>			<u>February 1969</u>			<u>March 1969</u>		
	<u>Sal.</u>	<u>W.Temp.</u>	<u>Turb.</u>	<u>Sal.</u>	<u>W.Temp.</u>	<u>Turb.</u>	<u>Sal.</u>	<u>W.Temp.</u>	<u>Turb.</u>
14	36.6	-	45	31.1	17.0	25	32.8	17.5	55
15	34.4	-	25	31.1	18.0	25	32.8	18.0	60
16	36.6	21.5	25	28.9	18.0	70	33.9	20.0	550
17	35.5	21.0	25	31.6	18.0	25	33.3	19.0	140
18	38.3	22.0	25	32.2	18.0	75	33.3	19.0	500
19	37.8	20.5	25	28.9	18.0	27	32.8	18.0	110
20	37.2	23.0	45	28.9	18.0	60	33.3	18.5	90
21	34.4	21.0	35	34.4	19.5	62	32.8	20.0	120
22	36.6	22.5	55	35.0	19.5	83	30.0	24.0	110
22A	36.6	22.0	25	35.5	20.0	100	33.9	19.0	90
22C	35.5	22.0	45	32.2	19.0	75	31.1	19.0	65
23	36.6	23.0	50	33.9	19.0	93	35.0	20.5	50
24	36.6	22.0	50	33.3	19.0	95	34.4	20.0	37
25	33.3	22.0	50	32.2	19.0	82	35.5	20.0	50
<u>April 1969</u>				<u>May 1969</u>					
14	34.4	23.0	27	31.1	25.5	27			
15	36.6	25.0	25	30.0	26.0	25			
16	36.6	25.0	98	34.4	27.0	25			
17	37.8	24.0	62	33.3	25.5	25			
18	36.6	25.0	50	35.5	27.0	25			
19	38.9	23.5	30	35.5	25.5	25			
20	38.9	25.0	26	31.1	27.5	38			
21	37.8	24.0	100	33.9	30.0	25			
22	37.8	25.0	110	33.9	30.0	30			
22A	42.2	23.5	50	32.2	27.0	25			
22C	36.6	24.0	105	30.5	30.0	25			
23	34.9	24.0	35	32.2	30.0	25			
24	36.6	24.0	35	33.3	30.0	25			
25	35.5	24.0	35	28.9	28.5	25			

Table 11 (cont.)

<u>June 1969</u>						<u>July 1969</u>				
<u>Station</u>	<u>Sal.</u>	<u>W.Temp.</u>	<u>Turb.</u>	<u>pH</u>	<u>D.O.</u>	<u>Sal.</u>	<u>W.Temp.</u>	<u>Turb.</u>	<u>pH</u>	<u>D.O.</u>
14	37.8	27.0	95			36.6	20.0	51		
15	35.5	27.0	78			35.5	19.5	25		
16	34.4	28.0	37			36.1	29.5	90		
17	36.6	29.0	300			37.8	29.0	165		
18	33.9	29.0	155			40.0	29.0	380		
19	34.4	29.0	600			38.9	29.5	310		
20	34.4	29.0	37			40.0	29.5	56		
21	38.9	30.0	30			44.4	30.0	110		
22	38.9	30.0	29			36.6	31.0	32		
22A	38.9	29.0	25			40.5	30.0	32		
22C	36.6	30.0	40			37.8	30.0	100		
23	38.9	29.0	46			40.0	30.0	25		
24	36.6	29.0	25			39.4	30.0	25		
25	37.8	29.0	25			38.9	30.0	25		
Pt. Isabel 1	33.3	29.0	300	8.5	5.0	43.3	29.0	70	7.6	3.2
" 2	33.3	29.0	350	8.6	5.0	38.3	29.0	350	7.6	5.0
" 3	33.3	29.0	300	8.5	6.2	38.9	30.0	400	7.2	4.0
" 4	33.3	29.0	250	8.5	5.8	37.8	29.5	180	7.4	4.4
" 5	33.9	30.0	350	8.6	5.0	37.2	30.0	80	7.5	3.2
" 6	33.9	30.0	120	8.5	5.4	37.8	30.0	25	7.8	2.8
" 7	33.3	30.0	25	8.6	6.0	37.8	30.0	25	7.8	4.2
Redfish Bay 1	38.9	30.0	73	-	7.4	39.4	30.0	250	7.5	9.0
" 2	36.6	30.0	33	-	3.6	44.4	31.0	110	7.2	8.0
" 3	37.8	31.0	600	-	3.8	40.5	31.0	50	6.8	7.0

Table 11 (cont.)

<u>August 1969</u>						<u>September 1969</u>				
<u>Station</u>	<u>Sal.</u>	<u>W.Temp.</u>	<u>Turb.</u>	<u>pH</u>	<u>D.O.</u>	<u>Sal.</u>	<u>W.Temp.</u>	<u>Turb.</u>	<u>pH</u>	<u>D.O.</u>
14	35.0	25.0	25			31.6	28.0	60		
15	35.5	30.0	25			30.5	28.0	25		
16	36.1	30.5	25			37.2	27.5	25		
17	36.1	31.0	25			36.6	27.5	25		
18	36.1	31.0	25			38.3	27.0	25		
19	36.6	31.0	25			38.3	27.0	25		
20	39.9	35.0	50			34.2	26.5	25		
21	41.1	31.5	25			37.2	27.0	30		
22	39.4	31.0	25			37.8	27.0	25		
22A	35.5	26.0	25			30.5	27.0	25		
22C	39.9	31.0	35			37.8	27.0	25		
23	39.9	31.0	25			39.4	27.0	25		
24	40.5	30.5	25			40.0	27.0	25		
25	41.6	30.0	25			41.1	26.0	32		
Pt. Isabel										
" 1	37.8	30.0	25	7.8	2.4	42.7	26.5	25	8.1	4.2
" 2	36.1	31.0	25	7.7	3.8	38.3	27.0	25	8.0	5.6
" 3	35.5	31.0	29	7.8	3.6	37.2	27.0	32	8.0	4.4
" 4	35.5	30.0	25	7.8	3.0	37.2	27.0	25	7.9	3.2
" 5	36.1	30.5	25	7.8	3.8	37.2	27.0	25	7.9	3.6
" 6	35.5	30.0	25	8.0	3.0	36.1	27.0	25	8.2	4.6
" 7	36.1	31.5	25	7.8	1.4	37.8	27.5	25	8.0	3.2
Redfish										
Bay 1	38.9	31.5	25	7.9	6.0	32.8	27.0	25	7.9	4.0
" 2	40.5	31.5	25	7.9	6.2	37.2	27.0	30	8.1	4.6
" 3	43.3	32.0	65	8.1	6.0	36.6	27.5	25	8.1	3.6

Table 11 (cont.)

<u>October 1969</u>						<u>November 1969</u>				
<u>Station</u>	<u>Sal.</u>	<u>W. Temp.</u>	<u>Turb.</u>	<u>pH</u>	<u>D.O.</u>	<u>Sal.</u>	<u>W. Temp.</u>	<u>Turb.</u>	<u>pH</u>	<u>D.O.</u>
14	34.9	25.0	45			33.3	20.0	37		
15	34.9	26.0	25			33.3	20.0	33		
16	34.4	26.5	40			34.9	20.0	40		
17	36.1	26.0	25			36.1	19.0	25		
18	36.6	27.0	25			42.7	19.0	42		
19	36.6	27.0	33			37.2	19.0	33		
20	38.3	26.0	25			36.1	22.0	68		
21	39.4	25.0	40			41.6	20.0	91		
22	38.9	25.0	40			38.9	19.5	77		
22A	38.3	25.0	40			36.6	18.5	33		
22C	38.9	25.0	55			40.0	20.0	49		
23	40.0	25.0	50			41.1	19.5	58		
24	40.0	25.0	50			40.5	20.0	45		
25	41.1	24.0	55			42.7	26.0	-		
Pt. Isabel										
" 1	36.6	26.0	28	7.8	4.0	30.1	20.5	60	7.4	4.8
" 2	36.6	27.0	25	7.9	2.6	42.7	19.0	42	7.4	4.2
" 3	35.5	27.0	25	7.8	3.0	36.6	19.0	123	7.5	4.0
" 4	35.5	27.0	40	7.9	2.8	36.1	19.0	42	7.5	2.6
" 5	36.1	26.5	25	7.9	3.2	36.1	19.0	25	7.2	4.4
" 6	37.8	26.5	25	7.9	2.6	36.6	19.5	25	7.2	4.8
" 7	35.5	25.0	25	7.9	3.4	36.6	20.5	25	7.5	2.6
Redfish										
Bay 1	38.9	25.0	45	8.2	3.4	38.9	21.0	150	7.8	6.8
" 2	39.4	25.0	40	8.2	3.6	41.6	20.0	91	7.8	2.8
" 3	36.1	25.0	-	8.2	4.2	41.6	22.0	100	7.8	3.2

Table 11 (cont.)

<u>December 1969</u>					
<u>Station</u>	<u>Sal.</u>	<u>W.Temp.</u>	<u>Turb.</u>	<u>pH</u>	<u>D.O.</u>
14	33.3	24.0	25		
15	33.3	23.0	25		
16	33.9	21.5	25		
17	34.4	21.0	25		
18	33.3	22.0	27		
19	34.4	23.0	25		
20	34.4	23.0	25		
21	29.9	21.0	27		
22	29.4	19.5	25		
22A	29.9	20.0	25		
22C	27.8	20.0	25		
23	29.4	21.5	25		
24	29.9	21.5	25		
25	29.9	21.5	25		
Pt. Isabel					
" 1	34.4	22.0	27	7.7	3.2
" 2	33.3	22.0	27	7.7	4.0
" 3	33.3	22.0	26	7.7	3.2
" 4	34.4	22.0	29	7.7	3.2
" 5	34.4	22.5	25	7.7	3.4
" 6	36.1	23.0	26	7.8	3.2
" 7	35.5	23.0	25	7.8	4.2
Redfish					
Bay 1	27.8	20.0	65	7.5	5.8
" 2	30.0	21.0	27	7.5	3.6
" 3	30.0	21.0	25	7.7	3.8

Table 12 Hydrographic Data for Upper Laguna Madre

<u>January 1969</u>				<u>February 1969</u>			<u>March 1969</u>		
<u>Station</u>	<u>Sal.</u>	<u>W.Temp.</u>	<u>Turb.</u>	<u>Sal.</u>	<u>W.Temp.</u>	<u>Turb.</u>	<u>Sal.</u>	<u>W.Temp.</u>	<u>Turb.</u>
25	31.1	14.5	25	29.4	18.5	25	30.5	15.0	25
26	31.1	14.5	25	30.5	18.0	25	30.0	15.0	25
27	31.6	15.0	25	31.1	18.0	25	31.6	15.0	28
28	31.6	14.5	25	31.1	18.5	25	-	-	-
29	32.2	14.0	25	32.2	20.5	25	31.1	14.5	25
30	31.6	13.5	25	33.3	18.0	25	31.1	13.0	25
31	34.4	14.0	25	33.3	20.5	35	31.1	18.0	25
32	32.2	14.0	25	32.8	21.0	45	31.1	14.0	30
34	33.9	14.0	56	35.5	20.0	40	31.6	14.0	48
35	35.0	14.0	60	37.2	19.5	50	32.8	14.5	30
36	34.4	14.0	58	37.2	19.0	57	31.6	14.0	42
37	35.0	14.0	62	38.9	19.0	60	31.6	14.0	40
Mkr. 21	31.1	14.0	25	30.0	18.0	25	30.0	15.0	25
Landcut	35.0	13.5	55	38.9	18.5	50	32.8	13.5	38

<u>April 1969</u>					<u>May 1969</u>				<u>June 1969</u>			
<u>Station</u>	<u>Sal.</u>	<u>W.Temp.</u>	<u>Turb.</u>	<u>D.O.</u>	<u>Sal.</u>	<u>W.Temp.</u>	<u>Turb.</u>	<u>D.O.</u>	<u>Sal.</u>	<u>W.Temp.</u>	<u>Turb.</u>	<u>D.O.</u>
25	35.0	23.5	25	7.0	33.9	26.5	30	4.0	39.4	29.5	52	8.0
26	35.0	26.0	42		35.0	26.5	38	-	-	-	-	-
27	35.0	26.5	25		36.1	27.0	40	-	-	-	-	-
28	35.5	26.0	25		36.6	29.0	44	-	-	-	-	-
29	35.0	26.0	30		36.1	28.0	35	-	-	-	-	-
30	35.5	24.0	30	9.0	37.8	26.5	50	7.0	-	-	-	-
31	37.2	26.0	35	10.0	38.3	28.0	33	9.0	-	-	-	-
32	35.5	26.0	45		37.2	27.5	60	-	-	-	-	-
34	37.8	25.0	50		34.4	27.5	65	-	-	-	-	-
35	38.3	25.5	46		35.5	27.5	50	-	-	-	-	-
36	38.9	25.0	50		32.2	27.0	44	-	-	-	-	-
37	38.9	25.0	48		30.5	27.0	53	-	-	-	-	-
Mkr. 21	34.4	24.0	25		34.4	26.5	40	-	40.5	29.0	64	5.0
Landcut	39.4	24.5	50		26.1	28.0	40	-	-	-	-	-
Tylers Pt.									42.7	29.5	70	6.0
Humble Brg.									40.5	29.5	60	5.0

Table 12 (cont.)

July 1969August 1969September 1969

<u>Station</u>	<u>Sal.</u>	<u>W.Temp.</u>	<u>Turb.</u>	<u>D.O.</u>	<u>Sal.</u>	<u>W.Temp.</u>	<u>Turb.</u>	<u>D.O.</u>	<u>Sal.</u>	<u>W.Temp.</u>	<u>Turb.</u>	<u>D.O.</u>
25	42.2	32.5	49	9.0	50.5	32.0	72	6.0	33.9	30.5	25	7.0
26	42.2	30.5	57	6.0	45.5	31.0	41	5.0	43.3	28.0	25	7.0
27	41.6	30.5	66	5.0	47.7	31.0	78	5.0	38.9	27.5	25	7.0
28	43.3	30.5	63	7.0	47.2	30.5	89	4.0	49.4	30.5	28	6.0
29	43.3	31.5	57	7.0	48.3	31.5	103	5.0	47.2	28.0	25	6.0
30	42.7	30.0	54	6.0	48.9	30.5	97	5.0	47.7	30.5	28	5.0
31	43.9	31.5	59	8.0	47.2	31.5	94	4.0	48.9	30.5	34	5.0
32	41.6	31.0	60	7.0	46.6	31.5	34	4.0	48.9	30.0	40	7.0
34	42.2	29.5	51	5.0	46.1	30.5	30	4.0	47.7	30.0	50	7.0
35	42.8	30.0	47	6.0	46.6	30.5	25	6.0	47.2	29.5	54	8.0
36	41.6	30.0	34	7.0	45.5	30.0	25	7.0	46.6	29.5	50	8.0
37	40.5	29.5	25	6.0	46.1	31.0	25	5.0	45.5	29.5	48	8.0
Mkr. 21	41.1	31.0	47	7.0	40.5	30.0	25	6.0	32.2	30.5	25	6.0
Landcut	40.5	29.5	25	7.0	45.5	31.0	25	5.0	46.1	30.0	25	8.0
Tylers Pt.	42.7	31.0	34	5.0	51.1	32.5	68	5.0	-	-	-	-
Humble Brg.	42.7	32.0	58	6.0	42.2	30.5	25	4.0	-	-	-	-

October 1969November 1969December 1969

25	35.5	24.5	30	6.0	31.6	18.0	50	8.0	30.5	21.0	43	9.0
26	35.5	24.0	25	7.0	31.1	18.0	25	8.0	31.6	21.5	40	7.0
27	35.5	24.5	25	6.0	30.5	18.0	35	8.0	33.3	21.0	45	9.0
28	33.9	24.5	25	8.0	34.4	19.0	25	8.0	36.1	22.0	48	8.0
29	34.4	25.0	25	7.0	36.1	18.5	25	7.0	37.8	20.5	50	8.0
30	35.0	26.0	25	8.0	38.3	18.5	40	7.0	38.9	20.5	53	7.0
31	35.5	26.0	25	7.0	32.8	18.0	38	8.0	38.9	21.5	40	9.0
32	36.6	25.5	32	7.0	36.6	19.0	40	6.0	38.9	21.5	50	9.0
34	41.1	25.5	44	6.0	40.0	19.0	43	7.0	37.2	20.5	38	8.0
35	45.0	25.5	50	7.0	37.8	19.0	48	7.0	37.8	20.5	43	8.0
36	44.4	25.0	48	7.0	37.2	19.0	50	7.0	36.6	20.5	40	8.0
37	45.0	25.0	47	7.0	33.3	19.0	50	7.0	36.6	20.5	40	7.0
Mkr. 21	45.0	25.0	25	7.0	30.0	18.0	28	8.0	31.1	21.5	35	8.0
Landcut	35.5	26.0	50	5.0	7.2	18.5	25	8.0	36.1	21.0	40	7.0
Tylers Pt.	-	-	-	-	-	-	-	-	-	-	-	-
Humble Brg.	-	-	-	-	-	-	-	-	-	-	-	-

Table 13 Hydrographic Data for Corpus Christi Bay

Station	January 1969			February 1969			March 1969			April 1969		
	Sal.	W.Temp.	Turb.	Sal.	W.Temp.	Turb.	Sal.	W.Temp.	Turb.	Sal.	W.Temp.	Turb.
Nueces #1	30.5	13.5	25	31.1	18.0	85	27.8	19.0	350	27.8	23.5	400
Nueces #2	28.9	13.5	25	31.1	18.0	87	25.0	19.5	410	25.5	23.0	580
E. of Causeway	30.5	14.0	25	31.1	18.0	25	28.3	14.0	25	27.8	24.0	95
Reynolds #4	30.5	12.0	25	30.5	17.0	25	28.9	14.0	25	30.0	23.5	25
Reynolds #5	30.5	12.0	25	32.2	17.0	25	30.0	14.0	25	30.0	23.5	25
Redfish Bay	30.0	12.5	25	27.8	17.0	25	25.5	14.0	25	21.3	23.5	25
East Flats	30.5	12.5	25	30.0	17.0	25	28.9	14.0	25	30.5	24.0	25
Shamrock	30.5	13.0	25	32.2	17.5	25	28.9	14.0	25	30.0	24.5	25
Bulkheads	30.5	13.0	25	32.2	17.5	25	30.0	14.0	25	30.0	24.5	25
Alta Vista	28.9	14.0	25	32.2	17.5	25	30.0	14.5	25	28.9	23.5	25
Mkr. 67	30.5	12.0	25	30.5	17.0	25	28.9	14.0	25	30.0	23.5	25
Mkr. 22	30.5	12.0	25	29.4	17.0	25	30.0	14.0	25	30.0	23.5	25
Mkr. 1 ICW	31.1	13.0	25	32.2	17.5	25	30.0	14.0	25	30.0	23.5	25
Navy Channel	30.5	13.5	25	31.1	17.5	25	30.5	14.5	25	30.0	23.5	25
Oso Bay	30.5	14.0	25	32.2	17.5	25	30.0	19.0	25	29.0	23.5	25
Nueces #3	30.5	13.5	25	31.1	18.0	70	26.6	15.0	25	25.5	23.5	280

Table 13 (cont.)

Station	May 1969			June 1969					
	Sal.	W. Temp.	Turb.	Sal.	W. Temp.	Turb.	pH	Surf. D.O.	Bott. D.O.
Nueces #1	27.8	26.5	250	22.2	28.5	355	-	-	-
Nueces #2	27.8	26.0	110	24.2	29.5	95	-	-	-
E. Of Causeway	27.0	27.0	105	27.8	28.0	86	7.1	7.5	3.5
Reynolds #4	27.8	27.5	25	28.9	28.5	25	-	-	-
Reynolds #5	27.8	27.5	25	28.9	28.5	25	-	-	-
Redfish Bay	24.4	25.0	25	30.0	28.0	25	-	-	-
East Flats	27.8	25.5	25	33.3	29.5	25	-	-	-
Shamrock	30.0	25.5	25	33.3	30.0	25	-	-	-
Bulkheads	30.0	28.0	25	30.5	28.8	25	-	-	-
Alta Vista	27.8	25.5	25	28.3	27.5	25	7.0	5.5	4.0
Mkr. 67	27.8	25.0	25	-	-	-	-	-	-
Mkr. 22	27.8	25.5	25	30.0	26.0	25	-	-	-
Mkr. 1 ICW	30.0	28.0	25	30.5	28.8	25	7.3	4.0	2.0
Navy Channel	28.9	27.5	25	30.0	28.0	25	7.3	6.0	3.0
Oso Bay	27.8	27.0	45	28.3	28.0	25	7.0	6.0	5.0
Nueces #3	27.8	26.0	145	27.8	28.0	86	-	-	-
Viola *				28.3	29.0	25	7.1	1.5	1.5
Harbor *				27.8	28.0	25	7.0	4.0	3.5
Mkr. 38 *				30.0	28.0	25	7.2	4.0	5.5

* Stations added in June

Table 13 (cont.)

Station	July 1969						August 1969					
	<u>Sal.</u>	<u>W.Temp.</u>	<u>Turb.</u>	<u>pH</u>	<u>Sur. D.O.</u>	<u>Bot. D.O.</u>	<u>Sal.</u>	<u>W.Temp.</u>	<u>Turb.</u>	<u>pH</u>	<u>Sur.D.O.</u>	<u>Bot. D.O.</u>
Nueces #1	32.2	30.2	150	-	-	-	36.1	30.0	45	-	-	-
Nueces #2	32.2	30.2	150	8.4	2.0	2.0	36.1	30.0	50	7.6	2.5	2.5
E. of Causeway	27.8	28.0	86	8.4	7.5	1.5	35.5	31.0	125	7.5	3.5	3.5
Reynolds #4	32.2	31.0	25	-	-	-	36.1	30.5	25	-	-	-
Reynolds #5	32.2	31.0	25	-	-	-	36.1	30.5	25	-	-	-
Redfish Bay	34.4	32.0	25	-	-	-	36.6	29.5	25	-	-	-
East Flats	34.4	31.0	25	-	-	-	37.8	31.0	25	-	-	-
Shamrock	34.4	31.0	25	-	-	-	37.8	31.0	25	-	-	-
Bulkheads	30.5	28.8	25	-	-	-	38.9	31.0	25	-	-	-
Alta Vista	28.3	27.5	25	8.4	4.0	5.0	37.8	32.0	25	8.0	3.5	3.5
Mkr. 67	32.2	31.0	25	-	-	-	36.1	31.0	25	-	-	-
Mkr. 22	34.4	31.0	25	-	-	-	37.8	31.0	25	-	-	-
Mkr. 1 ICW	30.5	28.8	25	8.5	2.5	1.0	38.9	31.5	25	8.1	2.0	1.0
Navy Channel	30.0	28.0	25	8.5	4.5	3.5	36.6	31.0	25	8.0	2.5	2.0
Oso Bay	28.3	28.0	25	8.2	2.0	4.0	38.9	36.5	145	7.7	3.5	1.0
Nueces #3	32.2	31.0	150	-	-	-	36.6	30.0	98	-	-	-
Viola	31.1	31.0	25	8.1	1.0	1.0	37.8	31.0	25	8.0	2.0	2.0
Harbor	32.2	31.0	25	8.0	4.0	3.5	36.1	32.5	25	8.0	2.0	2.0
Mkr. 38	32.8	31.0	25	8.1	2.5	2.0	36.6	30.5	25	8.0	3.0	2.5

Table 13 (cont.)

Station	September 1969						October 1969					
	Sal.	W.Temp.	Turb.	pH	Sur.D.O.	Bot.D.O.	Sal.	W.Temp.	Turb.	pH	Sur.D.O.	Bot.D.O.
Nueces #1	37.8	30.0	450	-	-	-	16.0	27.5	210	-	-	-
Nueces #2	37.8	30.0	136	8.3	1.5	1.5	5.6	27.5	190	8.4	4.0	4.0
E. of												
Causeway	37.8	30.0	25	8.3	3.0	3.0	33.9	28.0	25	8.4	4.5	2.0
Reynolds #4	32.8	28.0	25	-	-	-	33.3	23.5	25	-	-	-
Reynolds #5	32.8	28.0	25	-	-	-	33.3	23.5	25	-	-	-
Redfish Bay	32.8	31.0	25	-	-	-	28.9	27.0	25	-	-	-
East Flats	33.3	28.0	25	-	-	-	32.2	27.0	25	-	-	-
Shamrock	36.1	28.0	25	-	-	-	33.9	27.0	25	-	-	-
Bulkheads	38.9	28.0	25	-	-	-	35.5	23.5	25	-	-	-
Alta Vista	37.8	30.0	25	8.4	3.5	3.0	34.4	27.0	25	7.6	4.0	4.0
Mkr. 67	33.3	28.0	25	-	-	-	33.3	27.0	25	-	-	-
Mkr. 22	32.8	31.0	25	-	-	-	33.3	27.0	25	-	-	-
Mkr. 1 ICW	38.9	29.5	25	8.6	6.5	5.0	37.5	23.5	25	7.8	5.5	5.0
Navy Channel	38.9	30.0	25	8.4	5.5	4.0	35.5	23.5	25	7.8	3.5	3.5
Oso Bay	37.8	30.0	25	8.3	5.0	3.0	28.9	27.0	25	7.7	4.0	2.5
Nueces #3	37.8	30.0	150	-	-	-	16.0	27.5	150	-	-	-
Viola	35.5	31.5	25	8.4	4.0	0.0	35.0	27.5	25	8.4	1.0	0.5
Harbor	37.8	30.5	25	8.4	4.0	2.5	36.1	27.0	25	8.4	3.0	2.5
Mkr. 38	30.0	29.5	25	8.0	5.0	3.5	34.4	23.0	25	7.6	5.0	4.0

Table 13 (cont.)

Station	November 1969						December 1969					
	Sal.	W.Temp.	Turb.	pH	Sur.D.O.	Bot.D.O.	Sal.	W.Temp.	Turb.	pH	Sur.D.O.	Bot.D.O.
Nueces #1	16.0	22.0	190	-	-	-	17.2	18.0	60	-	-	-
Nueces #2	6.1	22.0	165	7.8	4.0	4.0	15.5	18.5	69	8.2	6.5	6.5
E. of Causeway	32.2	20.0	25	7.8	3.5	3.5	28.9	17.5	25	8.1	3.5	4.5
Reynolds #4	28.9	14.0	25	-	-	-	28.9	15.5	25	-	-	-
Reynolds #5	28.9	14.5	25	-	-	-	28.9	15.5	25	-	-	-
Redfish Bay	27.8	16.0	25	-	-	-	27.8	16.0	25	-	-	-
East Flats	26.4	16.0	25	-	-	-	26.6	16.0	25	-	-	-
Shamrock	27.8	16.0	25	-	-	-	27.8	16.0	25	-	-	-
Bulkheads	23.3	14.0	25	-	-	-	28.9	15.5	25	-	-	-
Alta Vista	32.2	18.0	25	7.8	3.5	4.0	27.8	18.0	25	8.2	3.5	3.5
Mkr. 67	27.8	14.5	25	-	-	-	28.9	15.5	25	-	-	-
Mkr. 22	27.8	16.0	25	-	-	-	27.8	16.0	25	-	-	-
Mkr. 1 ICW	24.4	13.0	25	8.0	3.0	3.0	29.4	15.0	25	8.1	3.5	3.0
Navy Channel	28.9	14.0	25	8.0	4.0	3.0	28.3	14.5	25	8.2	5.5	5.0
Oso Bay	33.3	18.0	25	7.8	5.0	5.0	27.8	14.0	25	8.2	5.0	4.5
Nueces #3	16.0	22.0	165	-	-	-	17.8	18.0	55	-	-	-
Viola	27.8	16.5	25	7.9	3.0	1.0	27.8	18.0	25	7.8	5.0	2.0
Harbor	33.9	19.5	25	7.9	3.5	3.5	31.1	16.0	25	8.2	4.0	4.5
Mkr. 38	28.9	14.0	25	8.0	6.0	5.0	28.9	15.5	25	8.2	4.5	3.0

Table 14 Hydrographic Data for Aransas Bay

January 1969

February 1969

<u>Station</u>	<u>Sal.</u>	<u>W.Temp.</u>	<u>Turb.</u>	<u>Sal.</u>	<u>W.Temp.</u>	<u>Turb.</u>
1	20.8	19.2	25	19.4	14.1	26
2	19.0	17.4	33	18.2	16.3	50
3	16.7	13.9	29	15.4	12.6	39
4	15.7	13.4	39	16.1	13.1	43
5	14.4	14.4	25	13.9	13.8	58
6	12.8	14.5	25	13.3	15.0	25
7	12.8	14.5	25	13.3	15.6	25
8	12.8	14.0	25	13.3	14.5	25
9	18.9	13.0	25	22.2	13.9	25
10	19.4	13.9	25	19.9	13.6	25
11	12.0	16.5	44	12.2	13.4	83
12	13.9	15.0	25	15.6	11.7	111
13	13.0	14.0	59	12.6	14.0	30
14	11.7	13.6	32	19.4	14.4	25
15	15.0	13.3	53	13.3	14.4	71
16	13.3	14.9	25	14.4	-	25
17	15.6	18.9	29	14.4	18.3	65
18	20.0	14.5	25	20.5	15.0	25
19	21.1	14.0	25	22.2	15.0	25
20	30.5	15.0	58	29.4	14.4	40
21	30.5	15.0	58	29.4	13.5	45

Table 14 cont.

March 1969				April 1969		
<u>Station</u>	<u>Sal.</u>	<u>W.Temp.</u>	<u>Turb.</u>	<u>Sal.</u>	<u>W.Temp.</u>	<u>Turb.</u>
1	17.0	21.9	25	15.6	24.8	28
2	16.1	19.4	60	15.2	25.5	86
3	12.6	16.0	44	10.5	21.4	34
4	12.0	16.7	43	9.7	23.2	93
5	12.0	18.1	28	9.8	27.3	84
6	9.4	18.5	41	3.9	19.9	30
7	9.4	17.0	140	2.8	20.0	210
8	10.6	18.0	25	3.3	20.0	25
9	16.1	12.2	25	15.0	22.7	27
10	13.2	12.2	68	14.9	23.5	38
11	8.9	19.2	28	6.1	25.2	29
12	9.1	17.3	31	7.1	23.9	68
13	12.3	16.1	40	9.4	23.0	27
14	11.1	12.8	33	11.0	22.9	37
15	1.7	12.8	90	7.9	23.0	95
16	10.6	17.0	55	4.5	20.0	31
17	10.6	15.6	31	6.7	25.0	25
18	15.0	11.6	54	15.0	11.6	60
19	14.4	11.1	41	14.4	11.1	98
20	15.6	11.1	71	15.6	11.1	93
21	17.2	11.1	64	17.2	11.1	147

Table 14 cont.

Station	May 1969					June 1969				
	Sal.	W.Temp.	Turb.	pH	Sur. D.O.	Sal.	W.Temp.	Turb.	pH	Sur. D.O.
1	10.5	25.9	25	8.1	10.0	12.2	26.0	25	7.5	6.0
	9.9	27.0	25	7.9	8.0	22.2	29.0	25	8.1	7.0
2	11.1	26.1	25	8.1	9.0	13.9	26.0	25	8.1	7.0
	11.1	26.2	25	8.2	8.0	25.5	29.0	25	8.2	7.0
3	13.3	25.9	25	8.0	10.0	16.1	25.0	32	8.2	6.0
	11.1	26.0	25	8.2	7.0	29.9	29.0	33	8.2	6.0
4	15.0	26.1	25	8.0	10.0	18.9	26.0	26	8.2	7.0
	12.2	26.0	27	8.0	7.0	34.4	26.0	56	8.0	7.0
5	14.4	25.6	25	8.1	9.0	18.9	26.0	29	8.2	7.0
	12.2	24.5	25	8.2	7.0	31.1	29.0	28	8.1	5.0
6	14.4	25.6	25	8.1	8.0	15.5	25.0	74	8.2	7.0
	11.1	25.0	25	8.1	7.0	22.8	30.0	34	8.2	6.0
7	14.4	25.9	25	8.0	7.0	14.4	24.0	68	8.0	6.0
	11.1	25.8	27	8.1	6.0	17.8	30.0	25	8.1	6.0
8	7.8	27.2	250	8.3	8.0	5.6	25.0	260	8.1	8.0
	8.9	27.0	81	8.3	7.0	17.8	30.0	25	7.4	6.0
9	6.7	26.7	72	8.0	10.0	10.5	29.0	81	8.1	9.0
	8.9	27.5	67	8.2	8.0	17.8	30.0	83	8.1	6.0
10	7.8	23.3	40	7.7	8.0	8.9	26.0	36	8.2	8.0
	8.3	29.0	25	8.3	8.0	15.5	31.0	25	8.2	7.0
11	7.8	26.4	105	7.8	8.0	17.2	25.0	118	8.1	8.0
	12.2	26.9	45	8.1	7.0	19.4	29.0	83	8.1	5.0
12	8.3	26.7	75	8.2	9.0	14.4	24.0	120	8.2	7.0
	10.5	26.0	70	8.3	7.0	18.3	29.0	75	8.1	6.0
13	16.7	26.1	61	8.3	9.0	18.9	24.0	68	8.2	7.0
	18.3	26.5	37	8.2	6.0	34.4	28.0	85	8.0	6.0
14	12.2	26.4	48	8.4	7.0	17.8	26.0	142	8.0	7.0
	11.7	26.6	58	8.4	7.0	17.8	30.0	91	7.3	6.0
15	6.7	26.7	57	8.1	8.0	5.6	25.0	260	8.1	7.0
	7.8	26.1	69	8.0	7.0	13.9	30.0	85	7.5	6.0
16	8.9	26.1	43	7.8	8.0	8.9	26.0	58	8.1	7.0
	8.3	27.0	38	8.2	7.0	12.2	30.0	67	7.9	6.0
17	7.8	26.7	28	8.1	9.0	8.9	25.0	63	8.2	8.0
	7.8	27.0	25	8.4	7.0	11.1	30.0	25	8.0	7.0
18	8.9	26.1	25	8.0	8.0	14.4	25.0	76	8.2	8.0
	7.8	26.5	32	8.3	7.0	14.4	30.0	250	8.0	7.0
19	7.2	24.4	180	7.5	8.0	7.8	26.0	91	8.1	8.0
	7.8	26.6	50	8.1	6.0	12.2	30.0	32	8.2	7.0
20	7.7	25.0	175	7.7	9.0	6.7	26.0	142	8.0	8.0
	4.4	28.8	50	8.6	8.0	11.1	31.0	85	8.2	7.0
21	8.9	25.0	52	8.5	9.0	7.8	26.0	92	8.1	8.0
	7.8	28.0	26	8.3	8.0	11.1	30.0	27	8.1	7.0
22	7.8	25.0	50	7.8	10.0	7.8	26.0	45	8.2	9.0
	8.3	27.0	37	8.1	8.0	11.1	30.0	25	7.8	8.0

Table 14 cont.

May 1969						June 1969					
Station	Sal.	W.Temp.	Turb.	pH	Sur.	Sal.	W.Temp.	Turb.	pH	Sur.	
					D.O.					D.O.	
23	6.7	25.0	41	7.5	6.0	7.8	25.0	29	8.3	7.0	
	5.6	25.2	52	8.1	7.0	14.4	26.0	53	8.0	6.5	
24	5.6	25.2	33	8.3	8.0	5.5	25.0	25	8.7	7.0	
	6.1	26.5	25	9.0	12.0	11.1	26.0	25	8.4	4.0	
25	3.3	25.0	76	8.3	8.0	0.0	25.0	75	8.4	7.0	
	1.1	26.5	71	7.9	5.0	2.2	26.0	87	8.0	6.0	
26	2.2	26.8	66	8.2	9.0	2.2	25.0	43	8.2	7.0	
	3.9	25.0	54	8.0	8.0	4.4	27.0	110	8.1	6.0	
27	1.1	27.1	138	8.3	8.0	1.7	25.0	101	8.4	7.0	
	0.6	26.0	100	8.1	7.0	2.2	26.0	120	8.1	6.0	
28	2.8	65.0	65	8.5	10.0	2.2	25.0	77	8.7	8.0	
	3.3	52.5	53	8.6	7.0	4.4	28.0	52	8.8	7.0	
29	3.9	27.1	30	8.7	11.0	3.9	25.0	69	8.5	8.0	
	3.3	27.0	25	8.8	10.0	4.4	29.0	25	8.7	8.0	
30	6.7	25.9	115	8.2	7.0	7.2	26.0	56	8.2	8.0	
	4.4	28.0	25	9.2	9.0	8.9	29.5	25	8.8	10.0	
July 1969						August 1969					
1	22.2	30.0	25	8.0	6.0	32.2	30.0	87	7.0	6.0	
	28.9	30.0	25	8.3	7.0	35.5	29.4	25	7.0	6.0	
2	23.3	30.0	25	8.2	6.0	30.5	30.0	25	8.0	6.0	
	29.9	29.0	25	8.6	7.0	36.1	28.9	25	7.6	6.0	
3	26.6	29.0	25	8.2	5.0	35.5	30.0	25	8.1	6.0	
	36.6	29.0	29	8.6	6.0	36.1	28.3	25	7.9	5.5	
4	34.4	29.0	25	8.1	6.0	36.6	29.0	25	8.1	6.0	
	36.6	25.0	25	8.4	6.0	36.1	28.9	25	8.1	5.0	
5	28.9	30.0	25	8.2	6.0	36.1	30.0	25	8.5	5.0	
	36.6	29.0	73	8.5	7.0	36.6	28.9	25	8.1	6.0	
6	23.3	30.0	32	8.1	6.0	35.5	30.0	25	8.5	6.0	
	27.2	30.0	34	8.9	6.0	36.1	30.0	26	8.1	5.5	
7	20.0	30.0	25	8.1	6.0	36.1	30.0	30	8.4	5.0	
	23.3	29.0	46	8.8	7.0	35.5	30.3	25	8.1	6.0	
8	21.1	30.0	95	8.1	6.0	23.3	30.0	125	8.1	6.0	
	19.4	30.0	155	8.6	7.0	28.9	30.6	29	8.2	5.0	
9	21.1	30.0	110	8.2	7.0	22.2	30.0	32	8.3	6.0	
	20.5	31.0	64	8.2	7.0	31.1	30.6	25	8.4	6.0	
10	16.7	32.0	25	8.2	8.0	24.4	32.0	27	7.6	6.0	
	22.2	30.5	145	8.5	7.0	28.9	30.0	25	8.3	6.0	
11	22.2	30.0	75	8.3	6.0	26.7	29.0	112	8.3	5.0	
	20.0	29.0	390	8.2	7.0	30.5	30.0	33	8.2	5.0	
12	22.2	30.0	54	8.3	6.0	27.8	30.0	38	8.3	5.0	
	20.0	29.0	205	8.3	7.0	33.3	30.0	45	8.3	5.5	

Table 14 cont.

Station	July 1969					August 1969				
	Sal.	W.Temp.	Turb.	pH	Sur. D.O.	Sal.	W.Temp.	Turb.	pH	Sur. D.O.
13	34.4	30.0	94	8.2	6.0	36.6	30.0	40	8.2	5.0
	35.5	29.0	200	8.1	7.0	36.6	30.0	54	8.1	5.0
14	24.4	30.0	90	8.5	7.0	28.3	30.0	46	8.5	6.0
	26.6	29.0	86	8.1	6.0	32.2	30.0	29	8.1	4.5
15	21.7	32.0	94	8.1	7.0	20.0	30.0	74	8.1	6.0
	18.9	29.0	200	8.1	6.0	27.8	30.0	34	8.1	6.0
16	13.3	30.0	38	8.0	7.0	24.4	31.0	160	8.1	5.0
	13.9	30.0	57	8.5	7.0	27.8	30.3	27	8.2	7.0
17	12.2	30.0	35	7.9	7.0	16.7	30.0	25	8.5	6.0
	15.0	29.8	182	8.3	6.0	21.1	30.0	235	6.1	6.0
18	12.2	30.0	28	8.0	7.0	17.2	30.0	105	8.2	6.0
	15.0	29.9	62	8.4	6.0	20.0	27.8	25	6.8	6.0
19	11.1	32.0	54	8.1	7.0	50.0	30.0	42	8.4	7.0
	11.7	29.9	280	8.4	6.5	17.8	30.0	29	7.3	7.0
20	10.0	31.0	55	8.0	8.0	12.8	30.0	310	8.3	6.0
	11.1	30.0	87	8.4	6.3	14.4	30.0	92	7.6	7.0
21	10.0	32.0	36	8.1	8.0	12.2	30.0	32	8.3	6.0
	11.7	30.0	44	8.3	7.0	13.3	30.6	170	7.7	6.0
22	10.0	32.0	25	8.0	7.0	13.3	30.0	112	8.5	6.0
	12.2	30.0	425	8.2	5.5	15.0	30.0	130	7.8	7.0
23	16.7	29.0	53	7.8	6.0	21.1	29.0	44	7.6	6.0
	15.5	28.5	40	7.4	6.0	25.0	29.0	28	6.5	4.0
24	14.4	29.0	30	8.0	5.0	17.8	29.0	45	8.0	4.0
	15.5	28.0	225	8.3	2.0	21.1	29.0	32	7.0	3.5
25	8.9	30.0	32	8.3	6.0	11.1	29.0	32	8.4	5.0
	11.1	28.5	25	9.0	4.0	13.3	29.0	38	7.6	3.5
26	8.9	30.0	57	8.3	7.0	10.0	30.0	49	8.5	6.0
	9.4	28.0	90	8.8	6.0	11.1	29.0	54	8.1	6.0
27	7.8	29.0	410	8.3	6.0	8.9	30.0	220	8.4	6.0
	8.9	28.5	112	8.7	5.0	11.1	29.9	112	8.2	5.0
28	6.7	29.0	138	7.9	7.0	10.5	30.0	90	8.5	5.0
	10.0	29.0	90	8.9	5.0	11.7	30.0	132	7.9	4.0
29	8.9	30.0	25	8.3	7.0	12.2	30.0	75	8.3	5.0
	11.7	29.5	25	8.7	5.0	15.5	30.5	25	8.8	4.0
30	12.8	30.0	94	8.1	6.0	20.0	29.0	250	8.2	6.0
	13.9	29.0	67	8.5	6.0	24.4	30.0	25	7.9	5.5

Table 14 cont.

Station	Sept. 1969					October 1969				
	Sal.	W.Temp.	Turb.	pH	Sur. D.O.	Sal.	W.Temp.	Turb.	pH	Sur. D.O.
1	28.9	29.5	25	8.1	4.0	24.4	27.5	25	6.4	6.0
	23.9	28.5	25	6.6	6.0	24.4	21.0	25	6.6	8.0
2	28.9	29.5	25	8.0	3.0	26.1	27.0	25	7.2	6.0
	24.4	28.0	25	7.1	5.0	25.5	20.8	25	7.3	8.0
3	32.2	29.5	25	8.3	6.0	29.4	27.5	25	7.7	6.0
	27.8	28.2	25	7.5	6.0	26.1	20.5	37	7.8	7.5
4	33.3	29.5	25	8.1	7.0	30.0	27.8	25	7.9	6.3
	30.0	28.8	25	7.7	6.0	28.9	23.8	29	8.0	7.0
5	33.3	29.5	25	8.2	6.0	30.0	27.0	25	8.0	6.0
	28.9	28.0	26	8.0	7.0	27.8	23.0	95	8.1	6.5
6	29.4	29.0	25	8.3	6.0	25.5	26.5	300	8.2	6.0
	26.7	28.5	25	8.1	7.0	23.3	20.0	28	8.1	8.0
7	26.7	29.0	25	8.5	7.0	24.4	26.6	30	8.1	5.0
	25.5	28.0	25	8.1	6.0	25.0	19.0	25	8.1	8.3
8	21.1	29.0	31	8.2	6.0	23.3	26.0	180	8.2	5.5
	20.5	26.5	151	7.6	7.0	22.2	20.5	48	8.2	8.0
9	22.2	29.8	26	8.3	6.0	22.2	27.0	47	8.2	7.0
	20.0	26.0	59	7.8	6.0	21.7	19.5	40	8.1	7.5
10	21.1	31.0	25	8.2	7.0	22.2	28.0	25	8.3	8.0
	22.8	27.5	27	8.1	7.0	21.1	22.5	25	8.2	9.5
11	23.9	29.3	37	8.2	6.0	24.4	26.3	51	8.2	6.2
	23.3	28.0	36	8.1	6.0	24.4	19.1	44	8.1	7.0
12	22.2	29.0	25	8.3	5.5	23.3	26.0	34	8.3	6.0
	22.2	28.1	44	8.0	7.0	23.3	19.5	31	8.3	8.0
13	27.8	28.5	25	8.3	6.0	27.8	25.9	58	8.3	7.0
	25.0	28.0	39	7.1	6.0	22.8	19.0	32	8.3	8.0
14	24.4	28.5	25	8.3	7.0	23.9	26.5	39	8.3	7.0
	22.2	25.5	59	6.7	6.0	22.2	18.5	57	8.1	7.0
15	20.0	29.0	25	8.4	6.0	22.2	27.0	106	8.3	6.0
	21.1	26.2	189	7.3	4.0	21.7	20.0	92	8.2	8.0
16	21.1	29.9	25	7.2	6.0	22.2	28.0	31	8.3	6.5
	20.0	27.0	29	7.9	7.0	20.5	21.0	47	8.2	7.3
17	17.8	29.9	25	7.5	5.0	19.4	27.5	25	8.2	6.0
	17.8	26.6	38	8.0	6.5	17.8	21.9	25	8.2	8.5
18	17.8	29.2	25	7.8	7.0	18.9	27.3	25	8.2	7.0
	17.8	27.0	25	8.0	7.0	16.7	21.5	25	8.3	9.0
19	16.7	30.0	25	8.0	7.0	17.2	27.2	26	8.2	7.0
	16.7	26.5	25	8.2	7.0	16.7	21.3	25	8.3	7.0
20	14.4	30.0	25	8.1	7.0	16.7	27.2	39	8.3	7.0
	16.7	27.0	34	8.2	6.0	13.9	21.6	25	8.3	10.5
21	13.9	29.8	25	8.4	7.0	17.2	27.9	25	8.3	6.5
	15.5	27.0	39	8.1	8.0	15.5	21.8	25	8.3	9.0

Table 14 cont.

Station	Sept. 1969					October 1969				
	Sal.	W.Temp.	Turb.	pH	Sur. D.O.	Sal.	W.Temp.	Turb.	pH	Sur. D.O.
22	15.0	30.0	25	8.2	6.0	17.8	28.0	25	8.1	6.5
	16.7	26.0	57	8.0	7.5	17.8	21.8	25	8.2	8.5
23	20.0	29.0	29	6.3	4.5	21.7	26.0	59	7.0	6.0
	21.1	27.0	42	6.8	6.0	21.1	23.0	56	8.1	8.0
24	18.3	29.0	32	7.3	5.0	21.7	25.2	88	7.6	5.0
	16.7	26.0	51	7.3	5.0	20.0	23.0	36	8.1	8.0
25	1.1	30.0	79	7.6	3.0	12.2	26.0	25	8.6	6.0
	10.5	27.5	30	7.8	5.0	16.1	22.0	57	8.1	8.0
26	10.0	29.0	68	7.6	7.0	14.4	26.5	35	8.3	6.0
	9.4	27.0	26	7.8	6.0	15.0	23.0	77	8.0	7.0
27	10.0	28.5	93	7.8	4.0	12.8	26.2	59	8.3	6.0
	8.9	27.5	88	8.1	6.0	12.2	21.5	33	7.8	8.0
28	10.5	29.5	92	8.1	5.0	13.9	27.0	52	8.3	7.0
	9.4	26.5	250	8.1	5.0	14.4	21.0	38	7.6	8.0
29	12.8	29.0	51	8.0	4.0	17.8	27.0	48	8.2	6.0
	12.8	27.5	120	8.1	6.0	16.7	21.5	34	7.2	8.0
30	19.4	29.0	31	7.9	5.0	22.2	27.2	47	8.1	6.0
	17.8	27.5	96	8.0	6.0	23.3	22.2	35	6.4	7.0
	November 1969					December 1969				
	Sal.	W.Temp.	Turb.	pH	Sur. D.O.	Sal.	W.Temp.	Turb.	pH	Sur. D.O.
1	26.6	14.5	26	6.9	8.0	26.6	14.5	25	7.1	9.0
	-	-	-	-	-	27.8	17.5	25	7.5	8.0
2	24.4	14.0	34	7.7	8.0	25.0	13.8	25	7.4	8.0
	-	-	-	-	-	23.9	18.0	25	7.8	9.0
3	24.4	14.0	48	7.7	9.5	26.6	14.0	25	7.6	8.5
	-	-	-	-	-	22.8	19.0	25	7.9	9.0
4	24.4	14.0	84	8.2	8.5	30.0	15.0	25	7.8	7.0
	-	-	-	-	-	24.4	18.0	25	7.9	8.0
5	25.0	13.5	76	8.0	9.0	28.9	14.5	25	8.0	8.0
	-	-	-	-	-	24.4	19.0	25	8.0	8.0
6	23.3	13.5	52	8.0	9.0	19.4	13.0	25	8.1	9.0
	-	-	-	-	-	22.8	19.0	25	8.1	9.0
7	25.5	11.5	93	8.0	8.0	16.7	12.5	25	8.3	10.0
	-	-	-	-	-	25.0	18.0	25	8.1	10.0
8	23.3	13.0	70	8.0	8.0	15.6	13.0	25	8.1	10.0
	-	-	-	-	-	19.4	20.0	25	8.5	8.0
9	21.1	13.0	41	8.1	10.0	16.7	13.0	25	8.1	10.0
	-	-	-	-	-	17.8	20.0	25	8.4	7.5
10	21.7	14.0	28	8.1	9.0	21.7	14.8	25	8.1	9.0
	-	-	-	-	-	17.8	20.0	25	8.4	9.0

Table 14 cont.

Station	November 1969					December 1969				
	Sal.	W.Temp.	Turb.	pH	Sur. D.O.	Sal.	W.Temp.	Turb.	pH	Sur. D.O.
11	25.5	11.7	25	6.9	8.0	18.3	12.5	25	8.4	10.0
	-	-	-	-	-	22.2	20.0	25	8.2	8.0
12	26.1	13.0	73	7.4	10.0	17.8	12.5	25	8.7	10.0
	-	-	-	-	-	21.1	19.5	25	8.2	8.0
13	25.5	11.5	25	7.7	10.0	17.2	12.0	25	8.4	10.0
	-	-	-	-	-	24.4	19.8	25	8.4	8.0
14	22.2	12.0	47	7.9	9.0	16.7	13.0	102	8.4	10.0
	-	-	-	-	-	23.3	20.0	25	8.4	8.0
15	22.8	13.0	50	8.0	9.0	15.6	13.0	97	8.4	10.0
	-	-	-	-	-	18.9	20.0	25	8.4	8.0
16	21.1	14.0	44	8.1	9.5	17.8	13.0	25	8.6	9.0
	-	-	-	-	-	16.7	19.0	25	8.4	8.3
17	17.8	13.8	25	8.2	9.0	17.8	13.0	25	8.6	9.0
	-	-	-	-	-	16.7	19.0	25	8.4	8.3
18	18.9	14.0	26	8.2	9.0	16.1	13.0	25	8.4	9.0
	-	-	-	-	-	16.1	18.2	25	8.4	9.0
19	17.8	13.5	25	8.2	10.0	16.1	13.5	25	8.5	9.0
	-	-	-	-	-	14.4	19.0	25	8.3	9.0
20	18.9	13.5	25	8.2	10.0	15.5	14.0	25	8.5	8.5
	-	-	-	-	-	13.3	19.0	34	8.5	10.0
21	17.8	13.5	25	8.2	9.0	13.3	14.0	25	8.5	9.0
	-	-	-	-	-	13.3	18.8	25	8.5	9.0
22	19.4	14.2	25	8.2	9.0	8.3	14.0	25	8.5	11.0
	-	-	-	-	-	15.6	18.9	25	8.6	9.0
23	21.1	24.4	33	8.2	9.0	15.5	13.9	25	7.5	10.0
	-	-	-	-	-	14.4	19.7	25	7.3	8.0
24	20.0	25.6	25	8.2	7.0	15.0	16.7	25	7.9	9.0
	-	-	-	-	-	8.3	20.0	44	8.1	8.0
25	10.0	25.0	54	8.0	8.0	0.0	15.0	106	8.5	7.0
	-	-	-	-	-	6.1	19.4	140	8.6	8.0
26	15.5	25.6	42	8.2	7.0	5.0	16.7	80	7.9	9.0
	-	-	-	-	-	0.0	18.3	44	8.0	7.0
27	6.7	24.4	260	8.9	6.0	0.0	13.9	133	8.7	9.0
	-	-	-	-	-	3.3	19.4	180	8.4	7.0
28	16.7	23.9	145	8.0	7.0	8.9	13.9	25	8.2	8.0
	-	-	-	-	-	0.0	19.7	54	8.0	7.0
29	18.3	24.2	58	8.1	7.0	9.4	13.9	25	8.1	9.3
	-	-	-	-	-	12.2	20.6	25	8.0	7.0
30	19.4	24.2	27	8.0	6.0	13.3	12.8	25	8.0	10.0
	-	-	-	-	-	13.9	20.3	25	8.0	8.0

Table 15 Hydrographic Data for San Antonio Bay

January 1969					February 1969			
<u>Station</u>	<u>Sal.</u>	<u>W.Temp.</u>	<u>Turb.</u>	<u>pH</u>	<u>Sal.</u>	<u>W.Temp.</u>	<u>Turb.</u>	<u>pH</u>
1	10.2	11.0	26	8.8	10.7	15.7	25	8.6
2	15.0	10.7	63	8.6	17.2	15.9	30	8.6
3	24.5	10.5	95	8.5	22.5	15.9	45	8.5
4	16.9	11.4	25	8.6	18.7	16.3	25	8.5
5	10.3	11.0	85	8.7	16.9	15.9	74	8.5
6	8.3	11.2	148	8.8	10.3	16.4	73	8.8
7	2.6	13.0	74	8.8	1.8	17.0	130	8.5
8	0.8	11.7	67	8.6	0.0	17.1	82	8.6
9	24.4	16.3	25	8.5	18.3	16.8	27	8.4
10	28.3	15.6	25	8.5	25.5	17.0	25	8.7
11	28.3	15.2	25	8.3	26.1	17.4	25	8.6
12	26.1	13.6	25	8.4	19.4	17.1	25	8.5
13	10.0	17.1	37	8.9	4.4	16.6	62	8.9
March 1969					April 1969			
1	5.2	16.6	141	8.6	0.0	24.8	47	8.2
2	5.3	16.1	97	8.6	4.4	22.0	125	8.6
3	16.4	16.9	25	8.5	11.1	22.1	38	8.5
4	14.7	17.0	25	8.5	9.9	21.8	52	8.5
5	6.0	18.4	84	8.6	4.4	23.0	138	8.3
6	2.2	17.0	102	8.5	0.0	22.8	183	8.9
7	8.4	16.9	118	8.4	1.1	26.3	92	8.7
8	8.3	16.9	159	8.3	0.0	24.0	131	8.4
9	8.4	18.8	49	8.4	8.9	23.4	32	8.5
10	8.4	18.9	33	8.4	17.7	23.3	25	8.4
11	8.5	14.6	25	8.5	17.7	21.4	25	8.6
12	8.4	15.4	25	8.4	12.2	21.1	43	8.5
13	8.6	19.2	64	8.6	5.6	23.2	110	8.4
May 1969								
1	2.2	20.2	81	8.5				
2	7.3	22.3	156	8.6				
3	17.7	22.5	48	8.3				
4	12.8	23.6	40	8.3				
5	5.8	23.4	144	8.3				
6	2.5	23.4	211	8.2				
7	0.1	20.4	193	8.3				
8	0.0	20.4	151	8.5				
9	-	-	-	-				
10	-	-	-	-				
11	-	-	-	-				
12	-	-	-	-				
13	-	-	-	-				

Table 15 cont.

June 1969						July 1969					
<u>Station</u>	<u>Sal.</u>	<u>W.Temp.</u>	<u>Turb.</u>	<u>pH</u>	<u>Sur. D.O.</u>	<u>Sal.</u>	<u>W.Temp.</u>	<u>Turb.</u>	<u>pH</u>	<u>Sur. D.O.</u>	
1	1.9	26.2	127	8.4	7.5	4.5	29.8	120	8.4	6.0	
2	3.1	26.2	160	8.5	-	5.7	29.8	125	8.5	-	
3	6.6	26.1	230	8.4	6.5	6.6	29.8	70	8.5	7.0	
4	7.7	29.0	94	8.6	7.0	7.4	30.0	65	8.5	6.5	
5	17.5	26.8	30	8.4	-	10.8	30.6	48	8.5	-	
6	18.0	26.7	39	8.5	7.5	14.0	29.7	27	8.5	7.0	
7	14.1	26.7	62	8.5	-	9.7	30.0	50	8.5	-	
8	9.7	27.1	91	8.6	8.5	13.1	30.7	32	8.5	6.2	
9	9.7	27.2	86	8.7	-	16.2	30.8	30	8.5	-	
10	4.0	26.8	197	8.5	8.0	14.2	30.8	65	8.5	6.5	
11	4.4	26.8	167	8.3	-	12.8	30.9	75	8.4	-	
12	2.8	26.5	196	8.5	8.5	7.7	30.9	97	8.6	7.0	
13	1.6	26.8	177	8.6	-	4.2	30.5	81	8.6	-	
14	0.0	26.0	58	8.6	8.5	1.6	31.0	56	8.5	7.5	

August 1969						September 1969					
<u>Station</u>	<u>Sal.</u>	<u>W.Temp.</u>	<u>Turb.</u>	<u>pH</u>	<u>Sur. D.O.</u>	<u>Sal.</u>	<u>W.Temp.</u>	<u>Turb.</u>	<u>pH</u>	<u>Sur. D.O.</u>	
1	11.5	28.7	145	8.2	6.5	5.0	27.5	27	8.3	5.5	
2	13.0	30.1	67	8.3	-	14.4	27.8	25	8.3	-	
3	18.0	28.9	62	8.3	6.0	18.3	27.6	25	8.3	6.5	
4	14.6	29.3	125	8.3	6.0	24.7	27.8	25	8.3	6.5	
5	14.7	29.0	41	8.4	-	31.6	28.6	25	8.2	-	
6	19.4	29.2	25	8.4	6.5	27.8	28.1	25	8.3	6.5	
7	18.3	29.7	34	8.3	-	24.4	28.6	25	8.3	-	
8	18.8	29.7	51	8.4	6.0	20.3	28.9	25	8.3	6.5	
9	19.7	30.1	27	8.4	-	21.1	28.8	25	8.4	-	
10	22.5	30.0	27	8.4	6.5	19.2	29.2	25	8.3	7.2	
11	21.0	30.0	37	8.3	-	16.7	29.2	25	8.3	7.0	
12	17.5	30.1	63	8.4	6.5	16.7	29.7	25	8.5	9.0	
13	3.8	30.0	64	8.5	-	2.8	30.4	28	8.6	-	
14	2.7	30.0	60	8.5	7.0	0.4	30.1	35	8.8	9.0	

Table 15 cont.

<u>Station</u>	<u>October 1969</u>					<u>November 1969</u>				
	<u>Sal.</u>	<u>W.Temp.</u>	<u>Turb.</u>	<u>pH</u>	<u>Sur. D.O.</u>	<u>Sal.</u>	<u>W.Temp.</u>	<u>Turb.</u>	<u>pH</u>	<u>Sur. D.O.</u>
1	14.1	26.2	32	8.1	4.5	23.0	21.5	37	8.4	6.5
2	16.1	26.1	25	8.2	6.5	26.9	21.5	33	8.4	7.0
3	24.2	26.7	25	8.2	6.0	29.1	21.8	29	8.5	7.5
4	28.3	26.8	25	8.2	6.2	29.5	21.7	27	8.6	6.2
5	27.8	26.6	25	8.2	8.0	28.3	22.0	25	8.5	8.0
6	29.9	26.9	30	8.1	6.2	28.9	22.2	25	8.6	7.0
7	32.8	26.7	25	8.1	8.0	29.4	22.1	25	8.5	7.5
8	28.9	27.4	31	8.2	6.5	29.9	22.1	25	8.4	6.5
9	26.1	27.6	25	8.2	7.5	30.0	22.1	25	8.5	7.0
10	30.4	27.1	25	8.2	7.0	25.5	21.5	25	8.5	7.2
11	16.7	27.2	25	8.2	9.0	16.4	21.3	25	8.6	8.0
12	19.4	27.0	25	8.3	7.0	20.3	21.4	29	8.7	8.0
13	11.9	27.4	25	8.4	7.0	11.1	21.0	34	8.7	8.0
14	5.6	27.6	28	8.6	6.0	9.4	21.3	53	8.8	6.0
<u>December 1969</u>										
1	12.8	11.8	36	8.2	9.5					
2	17.2	12.5	25	8.3	9.2					
3	21.7	12.7	25	8.2	8.0					
4	21.4	12.2	25	8.2	9.0					
5	30.8	13.1	25	8.2	8.0					
6	27.4	12.5	25	8.2	8.5					
7	23.3	12.6	25	8.2	9.2					
8	18.0	12.2	25	8.3	9.1					
9	17.5	12.2	25	8.2	9.1					
10	19.4	12.9	25	8.3	9.3					
11	14.4	12.9	25	8.3	9.0					
12	16.9	12.5	25	8.3	10.0					
13	14.7	13.1	25	8.4	8.5					
14	8.6	13.9	40	8.2	8.0					

Table 16 Hydrographic Data for Matagorda Bay

Station	January 1969			February 1969		
	Sal.	W.Temp.	Turb.	Sal.	W.Temp.	Turb.
Carancahua Pass	-	-	-	-	-	-
Cotton Bayou	-	-	-	-	-	-
Wells Pt.	23.3	8.5	25	24.4	14.0	25
	23.3	16.4	25	18.8	16.0	25
XA2	23.3	9.5	25	24.4	14.4	25
	24.4	16.5	25	18.8	16.5	25
Lavaca 60	18.8	7.5	25	23.3	14.5	25
	21.0	17.0	40	4.4	16.5	140
Lavaca 47	21.1	8.5	25	23.8	15.0	25
	23.2	16.6	43	9.9	17.5	27
La Salle	21.1	7.5	25	29.9	14.5	25
	26.6	16.5	28	7.7	17.1	25
Buoy 68	23.3	9.0	25	29.9	14.5	25
	23.3	14.8	25	23.3	16.1	25
Range D	25.5	10.5	25	30.5	14.9	25
	27.7	15.8	50	22.2	16.5	25
Middle 2	24.4	11.0	25	28.8	15.0	25
	23.3	14.9	25	25.5	16.0	25
Piling 3	22.2	9.5	25	27.2	14.5	25
	27.7	14.0	25	25.5	15.7	25
Beacon 2	22.2	10.0	25	27.2	15.3	25
	23.3	15.0	25	23.3	16.7	25
Mad Isl.	-	-	-	-	-	-
	-	-	-	-	-	-
The Cedars	-	-	-	-	-	-
	-	-	-	-	-	-
Coon Isl	-	-	-	-	-	-
	-	-	-	-	-	-
Fence Post	21.1	10.0	25	24.4	15.5	25
	23.3	16.5	25	23.3	16.9	25
Powderhorn Lake	23.3	11.5	27	23.3	12.0	125
	21.0	20.5	65	-	-	-
Keller Creek	12.2	10.0	27	19.9	13.5	55
	16.6	18.2	25	0.0	20.5	130
Carancahua Causeway	12.2	10.5	100	19.9	13.0	25
	14.4	18.0	75	0.0	22.0	220
Turtle Bay	19.9	11.0	31	22.2	11.0	25
	22.2	18.5	185	0.0	18.3	170
Red Bluff	14.4	10.0	33	15.5	11.0	25
	16.6	16.0	63	0.0	19.5	210
Port O'Connor	27.7	22.5	25	26.6	18.0	61
	-	-	-	-	-	-

Table 16 cont.

<u>Station</u>	<u>January 1969</u>			<u>February 1969</u>		
	<u>Sal.</u>	<u>W.Temp.</u>	<u>Turb.</u>	<u>Sal.</u>	<u>W.Temp.</u>	<u>Turb.</u>
Powderhorn Lake	21.0	20.5	65	19.4	17.0	190
(60' seine)	-	-	-	-	-	-
Lavaca Causeway	9.9	22.0	59	16.6	16.5	50
	-	-	-	-	-	-
Port Alto	19.9	17.3	25	17.7	16.6	185
	-	-	-	-	-	-
Carancahua	14.4	18.0	75	0.0	14.8	90
Causeway (60' seine)	-	-	-	-	-	-
Crescent V	14.4	17.0	75	17.7	11.5	43
	-	-	-	-	-	-
Turtle Bay	22.2	18.5	60	-	-	-
(60' seine)	-	-	-	-	-	-
Grassy Pt.	17.7	17.5	32	10.0	15.0	25
	-	-	-	-	-	-
Cash Creek	17.8	17.0	32	0.0	12.5	70
	-	-	-	-	-	-
College Port Cem.	-	-	-	-	-	-
	-	-	-	-	-	-
	<u>March 1969</u>			<u>April 1969</u>		
Carancahua Pass	19.9	13.0	25	18.3	21.6	56
	17.7	14.3	25	16.7	24.0	30
Cotton Bayou	22.2	13.0	25	26.1	21.0	25
	20.5	15.5	25	22.2	23.0	25
Wells Pt.	17.7	11.5	30	19.9	22.0	25
	17.7	14.2	25	17.7	22.8	50
XA2	16.6	12.6	25	17.7	28.5	25
	17.2	14.2	25	16.6	23.0	30
Lavaca 60	6.6	11.2	47	16.6	21.0	39
	7.2	14.5	33	3.3	23.6	38
Lavaca 47	9.9	12.1	40	21.1	21.0	31
	13.3	15.0	25	11.1	24.6	25
La Salle	11.1	12.3	30	26.6	21.0	25
	18.3	14.0	25	12.2	25.0	25
Buoy 68.	13.3	12.5	35	28.8	20.5	25
	22.2	15.7	25	19.4	23.5	25
Range D	25.5	13.0	145	29.9	20.5	25
	19.9	15.8	25	23.3	23.6	25
Middle 2	24.4	13.1	25	27.7	21.0	25
	18.3	15.0	25	19.9	24.2	25
Piling 3	21.0	13.4	25	26.6	21.0	25
	22.2	16.0	25	16.6	25.2	25
Beacon 2	22.2	13.0	25	18.8	22.0	25
	21.0	17.3	25	15.5	24.5	38

Table 16 cont.

<u>Station</u>	March 1969			April 1969		
	<u>Sal.</u>	<u>W.Temp.</u>	<u>Turb.</u>	<u>Sal.</u>	<u>W.Temp.</u>	<u>Turb.</u>
Mad Isl.	17.7	13.1	35	18.9	24.5	25
	4.4	18.5	45	10.5	22.0	95
The Cedars	18.8	14.0	40	14.4	22.8	230
	16.6	18.0	35	18.3	24.5	65
Coon Isl.	18.8	13.5	25	16.7	22.8	44
	13.8	18.5	25	16.7	25.5	25
Fence Post	18.8	13.5	25	16.6	23.0	92
	10.5	17.3	25	9.9	25.0	40
Powderhorn Lake	7.7	13.0	47	15.5	21.3	77
	5.0	20.5	35	12.2	27.0	25
Keller Creek	0	12.6	500	5.6	22.0	150
	0	16.5	230	7.2	26.0	58
Carancahua	0	12.2	280	3.3	22.3	50
Causeway	7.7	18.5	150	2.2	27.0	170
Turtle Bay	3.3	12.9	105	11.1	21.0	80
	4.4	21.0	310	11.1	26.0	100
Red Bluff	1.1	13.5	370	9.9	21.7	63
	0	18.9	330	7.2	25.5	150
Port O'Connor	18.9	16.0	27	18.3	25.0	80
	-	-	-	-	-	-
Powderhorn Lake	11.1	15.0	78	0.0	25.5	150
(60' seine)	-	-	-	-	-	-
Lavaca Causeway	3.3	18.0	250	0.0	30.5	76
	-	-	-	-	-	-
Port Alto	11.1	16.5	120	3.9	33.5	78
	-	-	-	-	-	-
Carancahua	-	-	-	0.0	28.6	145
Causeway	-	-	-	-	-	-
(60' seine)	-	-	-	-	-	-
Crescent V	3.3	16.0	80	0.0	29.5	123
	-	-	-	-	-	-
Turtle Bay	9.9	16.0	110	0.0	31.5	165
(60' seine)	-	-	-	-	-	-
Grassy Pt.	11.1	14.5	245	-	-	-
	-	-	-	-	-	-
Cash Creek	-	-	-	-	-	-
	-	-	-	-	-	-
College Port Cem.	-	-	-	-	-	-
	-	-	-	-	-	-

Table 16 cont.

May 1969				May 1969			
<u>Station</u>	<u>Sal.</u>	<u>W.Temp.</u>	<u>Turb.</u>	<u>Station</u>	<u>Sal.</u>	<u>W.Temp.</u>	<u>Turb.</u>
Carancahua	12.2	21.5	200	Keller Creek	0	24.5	210
Pass	13.8	25.5	25		0	26.6	110
Cotton Bayou	21.1	22.2	150	Carancahua	0	22.5	160
	18.8	25.0	25	Causeway	0	29.3	360
Wells Pt.	11.1	26.0	25	Turtle Bay	0	22.0	160
	-	-	-		0	28.0	210
XA2	12.7	26.5	58	Red Bluff	0	27.0	180
	-	-	-		0	24.5	145
Lavaca 60	18.8	34.8	75	Port O'Connor	-	-	-
	-	-	-		-	-	-
Lavaca 47	16.5	25.5	40	Powderhorn	-	-	-
	-	-	-	Lake (60'	-	-	-
La Salle	23.3	25.4	46	seine)			
	-	-	-	Lavaca	-	-	-
Buoy 68	22.2	26.5	25	Causeway	-	-	-
	-	-	-	Port Alto	-	-	-
Range D	23.8	26.5	25		-	-	-
	-	-	-	Carancahua	-	-	-
Middle 2	12.2	25.5	150	Causeway (60'	-	-	-
	-	-	-	seine)			
Piling 3	17.2	26.3	25	Crescent V	-	-	-
	-	-	-		-	-	-
Beacon 2	15.5	26.5	25	Turtle Bay	-	-	-
	-	-	-	(60' seine)	-	-	-
Mad Isl.	12.7	22.1	300	Grassy Pt.	-	-	-
	7.7	26.0	55		-	-	-
The Cedars	16.5	22.0	200	Cash Creek	-	-	-
	12.2	27.0	42		-	-	-
Coon Isl.	11.1	21.7	245	College Pt	-	-	-
	12.7	26.0	40	Cem.	-	-	-
Fence Post	7.7	27.3	25				
	-	-	-				
Powderhorn	13.3	23.0	25				
Lake	12.7	27.0	25				

Table 16 cont.

June 1969

<u>Station</u>	<u>Sal.</u>	<u>W. Temp.</u>	<u>Turb.</u>	<u>pH</u>	<u>Sur. D. O.</u>	<u>Bot. D.O.</u>
Wells Pt.	11.1	24.0	25	8.4	8.0	-
XA2	13.8	25.0	11	8.4	7.0	-
Lavaca 60	8.8	25.0	12	8.3	8.0	0
Basin 88	6.6	24.4	18	8.3	8.0	3.0
Lavaca 47	11.6	25.5	15	8.2	8.0	6.0
Lavaca 35	12.2	20.7	5	8.3	8.0	6.0
Buoy 68	21.0	25.6	10	8.4	8.0	-
Range D	21.0	26.0	20	8.4	7.6	8.0
Middle 2	21.0	25.8	10	8.5	8.0	-
Piling 3	14.4	26.0	19	8.5	8.0	-
Beacon 40	17.2	26.0	12	8.5	6.0	-
Cox Bay	9.9	25.0	11	8.3	8.0	-
Watermelon Mott	12.7	26.5	21	8.4	8.0	-
Mad Isl.	11.6	27.4	40	8.2	8.0	-
Palacios Pt.	16.6	26.5	25	8.5	8.0	-
Fence Post	9.9	26.0	38	8.6	9.0	-

July 1969

Wells Pt.	-	-	-	-	-	-
XA2	18.8	30.5	18	8.6	7.0	-
Lavaca 60	12.2	30.5	35	8.0	4.0	6.0
Basin 88	11.6	29.5	5	8.2	6.0	3.0
Lavaca 47	16.6	30.5	10	8.1	6.0	5.0
Lavaca 35	22.2	30.5	18	8.1	6.0	5.0
Buoy 68	27.7	30.5	55	8.1	7.0	-
Range D	25.5	31.2	10	8.1	7.0	6.0
Middle 2	23.3	30.8	12	8.1	6.0	-
Piling 3	23.3	30.3	12	8.2	7.0	-
Beacon 40	-	-	-	-	-	-
Cox Bay	13.8	30.0	25	8.2	7.0	-
Watermelon Mott	25.5	30.2	5	8.1	7.0	-
Mad Isl.	22.2	30.6	66	8.2	7.0	-
Palacios Pt.	21.0	30.7	5	8.2	8.0	-
Fence Post	15.5	31.4	20	8.2	7.0	-

Table 16 cont.

August 1969

<u>Station</u>	<u>Sal.</u>	<u>W. Temp.</u>	<u>Turb.</u>	<u>pH</u>	<u>Sur. D. O.</u>	<u>Bot. D. O.</u>
Wells Pt.	24.4	29.3	20	7.0	6.0	-
XA2	23.9	29.5	20	7.9	6.0	-
Lavaca 60	23.3	30.6	10	8.1	7.0	2.0
Basin 88	-	-	-	-	-	-
Lavaca 47	29.9	30.3	5	8.1	7.0	4.0
Lavaca 35	28.9	31.0	5	8.1	7.0	6.0
Buoy 68	34.4	29.3	5	8.1	7.0	-
Range D	34.4	29.3	5	8.1	7.0	-
Middle 2	32.1	29.3	20	8.1	6.0	-
Piling 3	28.8	29.0	5	8.1	7.0	-
Beacon 40	23.3	29.5	15	7.2	7.0	-
Cox Bay	21.1	30.3	15	8.0	7.0	-
Watermelon Mott	29.0	29.0	20	8.0	7.0	-
Mad Isl.	23.3	28.8	70	8.0	6.0	-
Palacios Pt.	24.9	29.0	45	7.6	6.0	-
Fence Post	18.3	29.8	70	7.3	6.0	-

September 1969

Wells Pt.	23.5	29.0	25	8.1	6.0	-
XA2	26.6	29.2	0	8.1	7.0	-
Lavaca 60	23.3	28.5	20	8.0	7.0	4.0
Basin 88	22.2	28.0	15	8.0	5.0	4.0
Lavaca 47	24.4	28.0	25	8.1	8.0	5.0
Lavaca 35	25.5	28.5	20	8.2	6.0	6.0
Buoy 68	26.6	29.0	20	8.3	6.0	-
Range D	26.6	29.0	20	8.3	6.0	6.0
Middle 2	28.9	30.0	5	8.1	5.0	-
Piling 3	31.1	29.5	10	8.1	5.0	-
Beacon 40	26.6	29.0	25	8.0	5.0	-
Cox Bay	22.2	28.5	20	8.1	7.0	-
Watermelon Mott	31.1	28.8	100	8.1	5.0	-
Mad Isl.	25.5	28.5	105	8.1	5.0	-
Palacios Pt.	-	-	-	-	-	-
Fence Post	20.0	28.4	30	8.1	5.0	-

Table 16 cont.

October 1969

<u>Station</u>	<u>Sal.</u>	<u>W.Temp.</u>	<u>Turb.</u>	<u>pH</u>	<u>Sur. D. O.</u>	<u>Bot. D. O.</u>
Wells Pt.	23.3	17.5	25	"	7.0	--
XA2	26.6	18.5	10	"	7.0	"
Lavaca 60	17.8	17.0	10	"	8.0	7.0
Basin 88	16.7	16.0	15	"	8.0	5.0
Lavaca 47	21.1	17.5	15	"	8.0	4.0
Lavaca 35	22.2	18.0	12	"	8.0	6.0
Buoy 68	22.2	17.5	10	"	7.0	"
Range D	27.8	19.0	5	"	7.0	4.0
Middle 2	25.5	19.0	12	"	6.0	"
Piling 3	23.3	18.0	10	"	6.0	"
Beacon 40	25.5	18.0	10	"	7.0	"
Cox Bay	25.5	17.5	18	"	9.0	"
Watermelon Mott	20.0	17.5	6	"	8.0	"
Mad Isl.	20.0	19.0	18	"	7.0	"
Palacios Pt.	25.5	18.5	4	"	7.0	"
Fence Post	21.0	17.5	20	"	8.0	"

November 1969

Wells Pt.	24.4	14.0	30	"	9.0	"
XA2	26.6	16.0	40	"	8.0	"
Lavaca 60	24.4	12.0	65	"	8.0	"
Basin 88	24.4	14.8	20	"	8.0	"
Lavaca 47	25.5	14.0	10	"	8.0	"
Lavaca 35	26.6	14.5	15	"	8.0	"
Buoy 68	27.7	14.5	10	"	8.0	"
Range D	28.8	15.0	15	"	8.0	"
Middle 2	25.5	14.0	20	"	6.0	"
Piling 3	22.2	13.8	20	"	9.0	"
Beacon 40	24.4	13.4	15	"	7.0	"
Cox Bay	23.3	14.5	20	"	8.0	"
Watermelon Mott	19.9	13.0	10	"	9.0	"
Mad Isl.	22.2	13.5	35	"	8.0	"
Palacios Pt.	23.3	12.9	40	"	9.0	"
Fence Post	22.2	13.0	30	"	9.0	"

Table 16 cont.

December 1969

<u>Station</u>	<u>Sal.</u>	<u>W. Temp.</u>	<u>Turb.</u>	<u>pH</u>	<u>Sur. D. O.</u>	<u>Bot. D. O.</u>
Wells Pt.	25.5	16.1	10	7.8	8.0	-
XA2	25.5	5.0	25	7.8	9.0	-
Lavaca 60	21.1	14.5	20	8.5	-	8.0
Basin 88	24.4	15.5	20	8.5	-	7.0
Lavaca 47	24.4	14.8	20	8.3	-	8.0
Lavaca 35	-	-	-	-	-	-
Buoy 68	26.1	15.0	20	8.3	8.0	-
Range D	28.9	16.5	0	8.4	-	8.0
Middle #2	26.6	17.0	10	8.8	10.0	-
Piling #3	24.9	16.4	15	8.5	9.0	-
Beacon 40	-	-	-	-	-	-
Cox Bay	23.3	15.1	45	8.4	10.0	-
Watermelon Mott	22.2	15.4	30	8.0	10.0	-
Mad Isl.	21.7	17.0	40	8.5	11.0	-
Palacios Pt.	23.9	16.0	35	8.5	10.0	-
Fence Post	21.1	17.5	10	7.6	7.0	-

Table 17 Hydrographic Data for Galveston Bay

	Jan. 1969		Feb. 1969		Mar. 1969		Apr. 1969	
<u>Station</u>	<u>Sal.</u>	<u>W.Temp.</u>	<u>Sal.</u>	<u>W.Temp.</u>	<u>Sal.</u>	<u>W.Temp.</u>	<u>Sal.</u>	<u>W.Temp.</u>
1	-	-	17.2	16.5	7.8	17.0	8.9	23.0
2	-	-	17.2	16.0	11.1	15.0	7.2	23.0
3	-	-	16.1	16.5	9.9	15.0	6.6	23.0
4	-	-	5.6	18.0	7.2	15.0	7.2	23.0
5	-	-	17.8	17.0	17.2	15.0	4.4	23.0
6	-	-	18.3	16.0	9.4	15.0	12.2	24.0
7	-	-	18.3	17.0	10.5	15.0	16.1	24.0
8	-	-	18.3	16.0	9.9	15.0	8.9	24.0
9	-	-	18.9	16.0	8.3	15.0	11.7	24.0
10	-	-	18.9	15.0	24.4	14.0	-	-
11	-	-	13.9	17.0	21.1	14.0	10.5	23.0
12	23.3	15.0	15.5	14.0	6.7	13.0	8.3	23.0
13	21.1	15.0	12.8	14.5	8.9	13.0	8.9	23.0
14	-	-	12.8	16.5	17.8	15.0	11.1	23.0
15	-	-	12.8	16.0	15.5	16.0	-	-
16	17.8	15.0	9.9	15.0	8.9	13.0	8.9	23.0
17	16.7	15.0	9.4	15.0	9.4	13.0	8.9	23.0
18	16.7	16.0	10.5	15.0	8.3	13.0	8.9	23.0
19	16.7	16.0	6.7	15.0	9.9	16.0	8.3	23.0
✓ 20	14.9	16.0	7.2	15.5	3.3	12.0	7.8	23.0
21	14.9	16.0	7.8	15.0	11.1	12.0	8.3	23.0
22	14.4	16.0	1.7	15.0	8.9	12.0	5.6	23.0
23	13.3	16.0	1.1	15.0	9.4	12.0	2.8	23.0
24	12.2	16.0	3.9	16.0	6.7	12.0	1.1	24.0
25	12.2	16.0	7.2	15.0	2.2	12.0	0.0	24.0
26	10.6	16.0	1.7	16.0	10.6	12.0	0.0	24.0
27	13.3	16.0	1.1	14.0	0	12.0	0.0	24.0
28	14.4	16.0	11.7	16.0	0	12.0	0.0	24.0
29	16.7	16.0	13.9	15.0	0.6	12.0	0.0	24.0
30	17.8	16.0	12.2	14.0	1.7	12.0	1.7	24.0
31	14.9	16.0	13.3	14.5	1.1	12.0	4.4	24.0
32	16.7	16.0	13.3	15.0	1.1	12.0	1.1	24.0
33	19.9	16.0	13.9	15.0	6.7	12.0	1.7	24.0
34	24.4	13.5	19.9	19.0	18.9	20.0	14.4	24.0
35	23.3	12.0	19.4	18.0	19.4	20.0	14.9	23.0
36	27.2	12.0	19.9	19.0	19.9	19.0	15.5	23.0
37	26.1	12.5	16.1	19.0	19.4	19.0	13.3	24.0
38	5.6	18.5	4.5	13.5	7.2	22.0	0.0	25.0
39	25.0	18.0	28.0	13.0	15.5	15.0	14.9	28.0
40	27.8	18.5	11.7	13.0	-	-	23.3	24.0
41	25.5	18.0	22.7	18.0	17.8	24.0	20.5	22.5
42	23.3	18.0	23.3	17.0	18.3	26.0	18.9	21.0
43	-	-	-	-	2.2	13.5	10.5	26.0
44	8.9	22.5	7.8	12.5	2.2	16.0	8.9	23.5

Table 17 cont.

May 1969			June 1969		
<u>Station</u>	<u>Sal.</u>	<u>W.Temp.</u>	<u>Sal.</u>	<u>W.Temp.</u>	
1	4.4	25.0	11.1	30.0	
2	5.6	25.0	7.2	30.0	
3	4.4	25.0	5.6	31.0	
4	2.2	25.0	7.8	31.0	
5	1.1	27.0	21.1	31.0	
6	7.8	27.0	14.4	33.0	
7	7.8	27.0	12.2	32.0	
8	6.1	27.0	14.4	31.0	
9	5.0	27.0	22.2	31.0	
10	22.2	27.0	27.8	27.8	
11	19.9	27.0	24.4	31.0	
12	8.3	24.0	23.9	30.6	
13	7.2	24.0	14.4	31.6	
14	6.7	27.0	15.5	31.0	
15	6.7	27.0	15.5	31.0	
16	6.1	24.0	12.2	31.6	
17	7.2	24.0	11.7	31.1	
18	6.2	24.0	12.2	31.5	
19	4.4	24.0	10.0	31.0	
20	4.4	24.0	5.6	31.0	
21	3.3	24.0	6.1	30.2	
22	1.1	24.0	6.1	30.2	
23	1.7	24.0	4.4	31.0	
24	2.2	25.0	4.4	30.8	
25	1.1	25.0	3.3	31.6	
26	0.5	25.0	0.6	31.4	
27	0	25.0	0.0	31.0	
28	0	25.0	0.0	31.1	
29	0.5	25.0	0.0	31.2	
30	1.7	25.0	0.0	31.2	
31	1.1	25.0	0.0	31.0	
32	1.7	25.0	3.3	30.8	
33	4.4	25.0	8.9	30.9	
34	11.1	27.5	-	-	
35	13.3	28.0	-	-	
36	13.9	28.0	-	-	
37	10.5	28.0	-	-	
38	4.4	28.0	16.1	33.0	
39	13.3	33.0	-	-	
40	19.9	31.0	-	-	
41	17.8	31.0	-	-	
42	13.3	28.0	-	-	
43	6.7	28.0	-	-	
44	4.4	27.0	-	-	

Table 17 cont.

July 1969

<u>Station</u>	<u>Sal.</u>	<u>W. Temp.</u>	<u>Turb.</u>	<u>pH</u>	<u>Sur. D.O.</u>	<u>Bot. D. O.</u>
1	7.8	29.0	68	8.3	6.0	6.0
2	6.7	29.0	71	8.0	-	-
3	6.7	29.0	75	8.0	6.0	6.0
4	3.3	29.0	125	8.9	-	-
5	1.1	29.0	217	6.9	4.0	3.0
6	3.3	28.0	117	7.1	-	-
7	1.1	28.5	164	7.6	-	-
8	5.0	28.5	106	7.4	-	-
9	12.8	29.0	64	8.2	-	-
10	33.9	28.5	44	8.1	-	-
11	32.2	29.5	65	8.0	-	-
12	30.5	29.5	36	7.9	-	-
13	18.3	30.0	42	7.9	-	-
14	17.8	29.0	59	8.0	-	-
15	15.5	29.5	77	7.8	-	-
16	22.1	29.5	59	7.7	-	-
17	13.9	30.0	65	7.6	6.0	5.0
18	13.9	29.0	-	-	-	-
19	13.8	29.0	39	7.8	-	-
20	12.2	29.0	36	7.9	6.0	5.0
21	10.5	29.0	49	7.6	-	-
22	13.3	29.5	51	7.3	-	-
23	9.4	29.0	51	7.9	-	-
24	3.9	29.0	36	7.7	-	-
25	2.8	29.0	44	8.3	-	-
26	1.7	29.0	71	8.0	-	-
27	1.1	29.0	61	7.4	7.0	5.0
28	1.1	29.0	68	7.7	-	-
29	6.7	29.0	61	7.6	-	-
30	8.3	30.0	47	7.9	8.0	5.0
31	9.9	29.0	49	7.7	-	-
32	11.1	29.0	36	7.5	6.0	5.0
33	12.8	28.0	88	7.7	-	-
34	-	-	-	-	-	-
35	-	-	-	-	-	-
36	-	-	-	-	-	-
37	-	-	-	-	-	-
38	17.8	29.5	81	8.2	8.0	8.0
39	36.6	29.0	59	8.2	-	-
40	-	-	-	-	-	-
41	36.6	29.0	68	8.2	-	-
42	34.4	30.0	47	8.2	-	-
43	-	-	-	-	-	-
44	-	-	-	-	-	-

Table 17 cont.

August 1969

<u>Station</u>	<u>Sal.</u>	<u>W. Temp.</u>	<u>Turb.</u>	<u>pH</u>	<u>Sur. D. O.</u>	<u>Bot. D. O.</u>
1	14.9	30.0	73	8.2	6.0	6.0
2	12.2	30.0	75	8.1	-	-
3	10.5	29.5	80	8.2	7.0	6.0
4	6.6	30.0	109	8.2	-	-
5	17.7	30.0	95	8.2	5.0	5.0
6	14.4	30.0	140	8.1	-	-
7	11.1	30.5	117	8.0	-	-
8	23.3	30.0	49	8.3	-	-
9	25.5	30.0	68	8.3	-	-
10	35.5	30.5	42	8.3	6.0	7.0
11	33.3	31.5	44	8.3	-	-
12	34.4	31.5	30	8.3	-	-
13	32.7	31.5	47	8.3	-	-
14	24.4	31.5	61	8.5	6.0	6.0
15	20.5	31.0	80	8.5	-	-
16	22.2	32.0	61	8.5	-	-
17	18.8	32.0	88	8.4	6.0	5.0
18	22.2	32.0	73	8.4	-	-
19	19.9	31.0	77	8.5	6.0	5.0
20	17.7	31.0	80	8.5	4.0	4.0
21	18.8	31.0	101	8.5	-	-
22	16.6	31.0	84	8.4	-	-
23	11.1	30.0	117	8.8	5.0	2.0
24	13.8	30.0	112	8.6	-	-
25	7.7	31.0	123	8.5	4.0	5.0
26	2.7	30.0	211	8.7	-	-
27	5.5	31.0	125	8.1	5.0	6.0
28	7.2	31.0	114	8.4	-	-
29	9.9	30.0	104	8.3	-	-
30	12.2	31.0	88	8.4	7.0	5.0
31	11.6	30.0	112	8.8	-	-
32	12.2	31.0	95	8.2	7.0	6.0
33	17.7	31.0	77	8.3	-	-
34	-	-	-	-	-	-
35	-	-	-	-	-	-
36	-	-	-	-	-	-
37	-	-	-	-	-	-
38	16.7	30.0	47	8.2	7.0	7.0
39	36.6	31.5	22	8.2	6.0	6.0
40	-	-	-	-	-	-
41	37.1	32.0	32	8.4	7.0	7.0
42	37.1	32.0	65	8.2	6.0	6.0
43	-	-	-	-	-	-
44	-	-	-	-	-	-

Table 17 cont.

Sept. 1969

<u>Station</u>	<u>Sal.</u>	<u>W.Temp.</u>	<u>Turb.</u>	<u>pH</u>	<u>Sur. D. O.</u>	<u>Bot. D. O.</u>
1	16.7	28.0	54	8.2	8.0	8.0
2	16.7	28.0	68	8.2	-	-
3	17.2	28.5	73	8.2	7.0	7.0
4	15.5	27.5	101	8.3	-	-
5	19.9	29.0	99	8.2	6.0	6.0
6	19.9	28.5	65	8.2	-	-
7	19.4	29.0	80	8.2	-	-
8	18.3	29.0	77	8.2	-	-
9	18.9	28.5	120	8.3	-	-
10	23.3	28.0	30	8.3	7.0	6.0
11	23.3	28.0	65	8.3	-	-
12	21.1	28.5	22	8.2	-	-
13	27.8	28.5	14	8.1	-	-
14	22.2	29.0	51	8.4	9.0	8.0
15	21.7	29.0	68	8.4	-	-
16	23.9	29.5	51	8.0	-	-
17	21.1	29.3	12	8.4	9.0	7.0
18	21.1	29.5	12	8.4	-	-
19	23.3	29.0	106	8.2	9.0	7.0
20	18.9	29.0	92	8.1	7.0	8.0
21	18.9	28.0	44	8.4	-	-
22	16.7	29.0	56	8.1	-	-
23	15.5	28.0	90	8.0	7.0	3.0
24	16.7	28.0	30	8.5	-	-
25	16.7	28.5	77	8.4	8.0	6.0
26	12.2	28.0	30	8.3	-	-
27	12.2	29.0	22	8.1	8.0	7.0
28	14.4	28.5	47	8.2	-	-
29	15.5	28.5	36	8.4	-	-
30	17.8	29.0	36	8.4	7.0	7.0
31	15.5	28.0	44	8.4	-	-
32	16.1	29.0	97	8.3	8.0	7.0
33	16.1	28.0	16	8.2	-	-
34	-	-	-	-	-	-
35	-	-	-	-	-	-
36	-	-	-	-	-	-
37	-	-	-	-	-	-
38	-	-	-	-	-	-
39	29.9	28.5	-	8.0	8.0	3.0
40	-	-	-	-	-	-
41	29.4	28.5	-	8.1	7.0	3.0
42	26.6	28.5	-	8.1	-	-
43	-	-	-	-	-	-
44	-	-	-	-	-	-

No October data - bad weather

Table 17 cont.

November 1969

<u>Station</u>	<u>Sal.</u>	<u>W.Temp.</u>	<u>Turb.</u>	<u>pH</u>	<u>Sur. D. O.</u>	<u>Bot. D. O.</u>
1	18.9	16.0	26	8.0	10.0	9.0
2	21.1	16.0	22	7.5	-	-
3	21.1	16.0	20	8.0	10.0	9.0
4	19.9	15.0	22	7.8	-	-
5	22.2	15.0	61	7.4	10.0	8.0
6	23.3	16.0	44	7.7	-	-
7	23.3	16.0	22	7.7	-	-
8	21.1	15.0	26	7.7	-	-
9	21.7	15.0	20	7.8	-	-
10	26.1	17.0	8	7.5	8.0	8.0
11	23.3	17.0	26	7.7	-	-
12	25.5	18.0	20	8.0	-	-
13	25.0	18.0	16	7.5	-	-
14	21.7	16.0	73	7.9	9.0	9.0
15	21.1	16.0	30	8.0	-	-
16	24.4	17.0	22	7.6	-	-
17	21.7	16.0	42	7.8	11.0	11.0
18	23.3	16.0	44	7.7	-	-
19	23.3	17.0	39	7.7	11.0	8.0
20	21.1	17.0	39	7.6	14.0	10.0
21	23.3	17.0	39	7.5	-	-
22	22.2	17.0	30	7.7	6.0	6.0
23	20.0	17.0	49	7.2	-	-
24	20.0	16.0	49	7.5	12.0	11.0
25	19.4	16.0	44	7.9	11.0	9.0
26	18.3	16.0	44	7.9	-	-
27	15.5	16.0	51	8.0	-	-
28	16.1	16.0	36	7.8	-	-
29	17.8	16.5	42	8.0	-	-
30	17.8	17.0	32	8.0	-	-
31	17.8	17.0	32	8.0	-	-
32	18.3	16.0	36	7.6	9.0	9.0
33	21.1	17.0	36	7.5	-	-
34	-	-	-	-	-	-
35	-	-	-	-	-	-
36	-	-	-	-	-	-
37	-	-	-	-	-	-
38	-	-	-	-	-	-
39	33.3	15.0	16	7.9	9.0	9.0
40	-	-	-	-	-	-
41	29.4	13.0	22	8.0	9.0	9.0
42	27.8	11.0	20	7.9	12.0	12.0
43	-	-	-	-	-	-
44	-	-	-	-	-	-

Table 17 cont.

December 1969

<u>Station</u>	<u>Sal.</u>	<u>W.Temp.</u>	<u>Turb.</u>	<u>pH</u>	<u>Sur. D. O.</u>	<u>Bot. D. O.</u>
1	23.3	13.5	51	8.2	11.0	12.0
2	22.8	13.0	30	8.2	-	-
3	22.2	13.5	30	8.2	10.0	9.0
4	20.5	15.0	32	8.3	-	-
5	24.9	14.5	54	8.4	11.0	13.0
6	25.5	13.0	51	8.2	-	-
7	25.5	14.0	39	8.1	-	-
8	24.4	14.0	44	8.1	-	-
9	23.3	14.0	44	8.4	-	-
10	29.9	14.0	22	8.1	9.0	8.0
11	28.9	14.0	22	8.2	-	-
12	26.6	14.0	8	7.9	-	-
13	26.6	13.0	12	7.9	-	-
14	26.1	14.0	32	8.3	13.0	13.0
15	24.4	14.0	22	8.1	-	-
16	24.9	13.0	59	7.9	-	-
17	23.3	13.0	12	7.9	7.0	8.0
18	24.4	13.0	12	7.8	-	-
19	24.9	14.0	26	8.0	10.0	5.0
20	21.1	16.0	36	8.0	7.0	4.0
21	26.1	13.0	30	7.7	-	-
22	24.4	14.0	36	7.5	-	-
23	24.4	14.0	12	7.4	7.0	6.0
24	22.8	13.0	42	7.8	-	-
25	19.4	14.0	39	8.3	12.0	8.0
26	17.8	12.0	47	8.3	-	-
27	13.9	13.0	22	8.1	12.0	10.0
28	15.5	13.0	39	8.1	-	-
29	16.7	13.0	22	8.0	-	-
30	19.4	15.0	22	8.2	11.0	11.0
31	17.8	13.0	22	8.1	-	-
32	18.9	13.0	26	8.0	10.0	10.0
33	22.2	15.0	16	7.9	-	-
34	-	-	-	-	-	-
35	-	-	-	-	-	-
36	-	-	-	-	-	-
37	-	-	-	-	-	-
38	-	-	-	-	-	-
39	-	-	-	-	-	-
40	-	-	-	-	-	-
41	-	-	-	-	-	-
42	-	-	-	-	-	-
43	-	-	-	-	-	-
44	-	-	-	-	-	-

Table 18 Hydrographic Data for Lower Laguna Madre

January 1970						February 1970						
Station	Sal.	W.Temp.	Turb.	pH	D.O.	Sal.	W.Temp.	Turb.	pH	D. O.		
14	26.1	23.0	25	-	-	30.5	17.0	35	-	-		
15	24.4	19.0	25	-	-	30.0	17.0	35	-	-		
16	28.3	21.0	60	-	-	27.2	18.0	180	-	-		
17	27.2	20.5	55	-	-	28.9	17.5	75	-	-		
18	26.1	22.0	65	-	-	27.2	19.4	165	-	-		
19	27.2	20.5	45	-	-	26.6	17.5	55	-	-		
20	26.1	21.5	45	-	-	26.1	19.0	95	-	-		
21	29.4	22.0	180	-	-	30.0	18.0	125	-	-		
22	29.4	22.5	110	-	-	30.5	17.0	140	-	-		
22A	29.4	21.5	65	-	-	31.6	17.0	80	-	-		
22C	26.1	20.0	100	-	-	31.6	17.0	140	-	-		
23	28.9	17.0	80	-	-	30.5	16.5	140	-	-		
24	30.0	17.0	80	-	-	30.5	16.5	130	-	-		
25	27.6	16.0	60	-	-	32.2	15.5	85	-	-		
Port Isabel	1	25.0	23.0	55	8.2	6.0	26.1	19.0	190	8.1	4.0	
"	"	2	26.1	22.0	63	8.0	7.6	27.3	19.4	165	8.1	3.4
"	"	3	25.0	21.0	53	8.0	7.9	32.8	19.0	155	7.7	2.6
"	"	4	25.0	20.5	50	8.0	8.0	31.6	19.0	95	7.6	2.2
"	"	5	24.4	21.0	50	8.0	8.0	27.2	19.0	100	7.9	3.2
"	"	6	23.9	21.0	50	8.2	7.4	26.6	19.0	85	7.9	7.0
"	"	7	24.0	21.0	50	8.1	4.6	25.0	19.0	105	8.0	6.0
Redfish Bay	1	-	-	-	-	-	24.0	17.0	140	8.2	5.6	
"	"	2	25.0	22.0	180	8.1	5.2	30.0	18.0	125	8.3	6.3
"	"	3	-	-	-	-	31.6	18.5	35	7.9	5.0	
March 1970						April 1970						
14	33.3	16.0	25	-	-	34.4	21.5	28	-	-		
15	33.3	16.0	25	-	-	34.4	23.0	25	-	-		
16	36.1	18.0	80	-	-	33.3	24.0	25	-	-		
17	32.2	18.5	79	-	-	32.8	22.0	80	-	-		
18	33.3	18.0	220	-	-	33.3	23.5	150	-	-		
19	33.9	19.0	193	-	-	33.3	22.0	140	-	-		
20	31.6	18.0	67	-	-	-	-	-	-	-		
21	33.3	20.0	59	-	-	33.9	25.0	85	-	-		
22	27.8	20.5	25	-	-	33.9	25.0	35	-	-		
22A	32.2	19.0	28	-	-	33.9	25.0	28	-	-		
22C	28.3	19.0	48	-	-	34.4	25.5	25	-	-		
23	30.5	19.0	34	-	-	33.3	25.0	36	-	-		
24	32.2	19.0	25	-	-	34.4	25.5	25	-	-		
25	33.3	19.0	58	-	-	33.9	25.5	25	-	-		

Table 18 cont.

March 1970						April 1970						
Station		Sal.	W.Temp.	Turb.	pH	D.O.	Sal.	W.Temp.	Turb.	pH	D.O.	
Pt. Isabel	1	36.1	18.0	85	7.7	2.6	33.3	24.0	160	7.6	4.6	
"	"	2	33.3	18.0	220	7.7	3.0	33.3	23.5	150	7.6	4.6
"	"	3	32.2	18.0	445	7.7	4.8	33.8	23.5	200	7.6	5.0
"	"	4	33.3	19.0	165	7.9	3.8	36.1	23.5	133	7.7	5.0
"	"	5	32.8	18.5	68	7.8	3.4	36.1	24.0	120	7.7	4.4
"	"	6	31.6	18.5	61	8.1	3.2	38.5	24.0	25	7.9	3.4
"	"	7	32.8	18.5	190	8.0	3.2	35.0	24.0	45	7.9	4.0
Redfish Bay												
"	"	1	32.2	21.5	52	7.6	5.0	33.3	24.5	70	7.6	4.0
"	"	2	33.3	20.0	59	7.5	4.6	33.9	25.0	85	7.7	4.0
"	"	3	33.9	21.0	73	7.5	3.8	33.9	25.0	230	7.7	4.6
May 1970						June 1970						
14		32.2	23.0	25	-	-	37.8	24.2	42	-	-	
15		30.5	23.0	27	-	-	38.9	24.0	25	-	-	
16		37.8	22.0	38	-	-	37.2	26.0	25	-	-	
17		34.4	21.5	210	-	-	36.6	26.2	32	-	-	
18		38.3	23.0	135	-	-	35.0	29.2	37	-	-	
19		37.8	22.0	180	-	-	37.2	27.0	102	-	-	
20		37.8	26.0	210	-	-	35.0	27.2	42	-	-	
21		37.8	22.5	95	-	-	34.4	27.8	34	-	-	
22		35.0	21.5	77	-	-	36.1	28.0	25	-	-	
22A		38.9	22.0	32	-	-	34.4	27.2	25	-	-	
22C		32.8	27.0	-	-	-	34.4	27.2	27	-	-	
23		32.8	25.5	-	-	-	33.9	27.6	25	-	-	
24		34.4	26.0	-	-	-	34.4	27.4	34	-	-	
25		33.3	27.0	-	-	-	38.3	27.8	31	-	-	
Pt. Isabel	1	37.2	22.5	85	-	6.4	35.0	28.5	25	7.9	4.8	
"	"	2	38.3	23.0	135	-	6.0	35.0	28.6	37	7.8	4.8
"	"	3	33.6	22.0	120	-	5.6	34.4	28.8	53	7.8	4.6
"	"	4	33.3	22.0	80	-	5.8	35.0	28.8	47	7.9	4.4
"	"	5	37.2	22.5	130	-	3.6	35.0	29.0	45	7.8	5.0
"	"	6	37.8	23.0	52	-	6.0	36.1	29.0	25	8.2	5.0
"	"	7	37.8	23.5	78	-	6.0	35.0	29.0	25	8.3	6.4
Redfish Bay												
"	"	1	38.3	22.0	110	-	4.6	36.5	29.5	25	8.0	6.2
"	"	2	37.8	22.5	95	-	4.4	34.4	28.5	25	8.0	5.4
"	"	3	38.9	23.0	130	-	4.0	38.3	28.8	31	7.8	4.8

Table 18 cont.

July 1970						August 1970				
Station	Sal.	W.Temp.	Turb.	pH	D.O.	Sal.	W.Temp.	Turb.	pH	D.O.
14	36.6	25.0	25	-	-	38.9	25.5	25	-	-
15	37.2	27.5	25	-	-	38.9	26.0	25	-	-
16	36.6	28.6	25	-	-	40.0	29.0	25	-	-
17	36.1	28.2	25	-	-	37.8	28.0	25	-	-
18	37.2	28.8	25	-	-	41.1	28.8	25	-	-
19	36.6	28.6	25	-	-	37.2	27.0	102	-	-
20	37.8	28.6	25	-	-	35.0	27.2	42	-	-
21	34.4	28.5	25	-	-	34.4	27.8	34	-	-
22	36.6	28.2	25	-	-	36.1	28.0	25	-	-
22A	41.6	28.0	25	-	-	34.4	27.2	25	-	-
22C	35.5	28.2	25	-	-	34.4	27.2	27	-	-
23	34.4	28.0	25	-	-	33.9	27.6	25	-	-
24	34.4	28.2	25	-	-	34.4	27.4	34	-	-
25	33.3	28.0	25	-	-	38.3	27.8	31	-	-
Pt. Isabel										
" 1	36.6	28.6	25	8.3	5.2	41.1	28.8	25	8.3	5.4
" 2	37.2	28.8	25	8.1	5.2	41.1	28.8	25	8.1	4.4
" 3	37.2	28.8	25	7.8	4.6	40.0	29.0	25	8.1	3.6
" 4	38.9	28.6	25	7.8	5.0	40.0	28.8	25	8.2	5.2
" 5	36.6	28.8	25	7.9	5.0	38.9	29.0	25	8.1	5.0
" 6	37.8	29.0	25	8.1	4.2	38.9	29.0	25	8.2	3.8
" 7	43.3	28.8	25	8.5	4.8	40.0	30.0	25	8.4	3.4
Redfish Bay										
" 1	36.6	27.0	25	7.9	6.8	46.1	29.0	25	8.2	5.2
" 2	34.4	28.5	25	7.9	6.8	42.7	28.8	25	8.2	4.6
" 3	37.5	28.5	27	7.7	5.2	44.4	28.0	25	8.2	5.2
September 1970						October 1970				
14	35.5	30.5	25	-	-	31.6	24.0	33	-	-
15	35.5	31.5	25	-	-	31.6	24.0	56	-	-
16	35.5	29.0	25	-	-	27.2	23.5	25	-	-
17	35.5	30.5	25	-	-	28.9	24.0	47	-	-
18	36.1	28.5	25	-	-	-	23.5	-	-	-
19	35.5	29.0	25	-	-	25.0	25.0	38	-	-
20	36.6	28.5	25	-	-	31.1	24.0	28	-	-
21	34.4	28.0	25	-	-	32.2	21.5	25	-	-
22	35.0	28.0	25	-	-	33.3	20.5	25	-	-
22A	40.0	28.0	25	-	-	35.0	21.5	25	-	-
22C	36.6	28.0	25	-	-	35.0	20.0	25	-	-
23	33.3	28.0	25	-	-	37.5	24.5	25	-	-
24	38.9	28.0	25	-	-	34.4	23.5	25	-	-
25	40.0	28.0	25	-	-	34.4	23.5	25	-	-

Table 18 cont.

September 1970						October 1970				
Station	Sal.	W.Temp.	Turb.	pH	D.O.	Sal.	W.Temp.	Turb.	pH	D.O.
Pt. Isabel										
" 1	35.5	29.5	25	7.8	5.8	-	24.0	-	7.8	3.0
" 2	36.1	28.5	25	7.8	5.2	-	23.5	-	7.8	2.8
" 3	35.0	29.0	25	7.8	7.2	-	24.0	-	7.8	2.6
" 4	35.5	29.5	25	7.8	4.2	-	24.5	-	7.8	3.0
" 5	35.5	28.5	25	7.8	2.4	-	24.5	-	7.8	3.0
" 6	36.1	29.5	25	7.8	4.8	-	24.5	-	7.8	3.2
" 7	36.6	29.0	25	7.8	5.6	-	25.0	-	7.8	3.0
Redfish										
Bay 1	32.2	27.5	25	7.8	6.2	32.8	22.5	28	7.8	3.8
" 2	34.4	28.0	25	7.8	3.2	32.8	22.0	25	7.8	2.0
" 3	35.0	28.0	25	7.8	3.2	33.9	22.0	25	7.8	3.2
November 1970						December 1970				
14	32.8	10.0	270	-	-	33.3	21.5	33	-	-
15	31.1	12.5	210	-	-	33.3	21.5	25	-	-
16	28.9	11.0	81	-	-	33.3	21.0	25	-	-
17	28.9	10.0	255	-	-	34.4	21.0	25	-	-
18	30.0	13.0	230	-	-	32.2	21.0	25	-	-
19	31.6	13.0	105	-	-	31.1	22.0	25	-	-
20	32.2	11.0	60	-	-	31.6	21.0	25	-	-
21	28.9	22.0	25	-	-	33.9	14.0	27	-	-
22	30.5	21.5	25	-	-	33.9	15.5	25	-	-
22A	33.3	21.5	25	-	-	33.9	18.5	25	-	-
22C	33.3	21.5	25	-	-	33.9	15.0	25	-	-
23	36.1	22.0	25	-	-	36.1	16.0	25	-	-
24	40.5	21.0	25	-	-	36.6	16.0	25	-	-
25	38.9	20.5	25	-	-	42.2	13.5	25	-	-
Pt. Isabel										
1	30.0	10.0	155	7.2	3.6	33.3	21.0	25	8.3	4.6
2	29.4	13.0	230	7.7	3.4	32.2	21.0	25	8.1	3.6
3	31.1	13.0	290	7.6	4.2	33.3	21.0	25	8.1	3.8
4	30.5	12.5	280	7.8	4.0	31.1	21.0	25	8.0	4.0
5	30.5	11.5	300	7.7	4.0	31.6	21.0	25	8.0	2.0
6	30.5	11.5	270	7.8	3.0	36.1	21.0	25	8.2	3.6
7	33.3	11.0	74	7.8	5.2	35.5	21.5	25	8.1	2.4
Redfish										
Bay 1	22.2	22.5	26	8.0	3.2	32.2	15.0	32	8.0	5.6
2	28.9	22.0	25	8.0	2.8	33.9	14.0	27	8.0	5.0
3	30.0	21.5	25	8.0	3.4	33.3	14.0	25	8.0	5.6

Table 19 Hydrographic Data for Upper Laguna Madre

January 1970					February 1970			
<u>Station</u>	<u>Sal.</u>	<u>W.Temp.</u>	<u>Turb.</u>	<u>D.O.</u>	<u>Sal.</u>	<u>W.Temp.</u>	<u>Turb.</u>	<u>D.O.</u>
25	30.5	18.0	25	8.0	31.1	13.0	25	8.0
26	30.5	18.0	25	7.0	32.8	13.0	25	7.0
27	30.5	18.0	25	8.0	31.6	13.0	25	7.0
28	30.5	20.0	68	8.0	33.3	14.5	25	8.0
29	31.1	18.5	39	8.0	33.3	14.0	30	7.0
30	32.8	18.5	38	7.0	33.3	13.5	34	7.0
31	33.3	19.5	34	9.0	34.4	13.5	25	8.0
32	33.3	19.5	40	9.0	35.0	14.0	46	8.0
34	32.2	19.0	60	9.0	35.5	13.5	55	9.0
35	32.2	19.0	62	9.0	35.5	13.5	60	8.0
36	36.6	19.0	54	8.0	35.5	13.5	57	8.0
37	30.5	18.5	48	9.0	36.1	13.5	58	9.0
Mkr. 21	30.0	18.5	30	7.0	31.1	14.0	25	7.0
Landcut	30.5	18.5	53	9.0	36.6	13.5	60	9.0

March 1970					April 1970			
25	32.2	18.5	30	7.0	33.9	23.0	36	4.0
26	32.2	20.5	30	8.0	33.9	23.5	40	7.0
27	32.2	18.5	28	8.0	35.0	23.5	34	6.0
28	33.3	20.5	36	8.0	34.4	23.5	40	7.0
29	33.3	18.5	39	8.0	36.4	24.0	38	3.0
30	33.9	19.0	56	8.0	38.9	23.5	48	4.0
31	35.5	21.0	44	8.0	38.9	25.0	34	3.0
32	35.0	20.5	60	8.0	39.4	25.5	63	3.0
34	37.8	20.0	56	8.0	41.1	24.0	67	5.0
35	38.3	19.5	63	8.0	40.5	24.0	66	3.0
36	37.8	19.5	66	8.0	40.0	24.5	66	5.0
37	37.8	19.5	68	7.0	37.8	24.0	65	4.0
Mkr. 21	31.1	19.5	25	6.0	33.9	24.0	42	6.0
Landcut	37.8	19.0	70	6.0	37.8	25.5	60	3.0

Table 19 cont.

May 1970					June 1970			
<u>Station</u>	<u>Sal.</u>	<u>W. Temp.</u>	<u>Turb.</u>	<u>D.O.</u>	<u>Sal.</u>	<u>W. Temp.</u>	<u>Turb.</u>	<u>D.O.</u>
25	36.1	28.0	25	9.0	35.0	28.5	25	5.0
26	36.1	28.5	40	8.0	37.2	31.0	25	6.0
27	38.9	28.0	25	7.0	35.0	28.5	25	5.0
28	39.4	28.5	30	7.0	33.9	31.0	25	6.0
29	40.0	28.0	25	6.0	36.6	28.5	25	5.0
30	40.5	28.0	38	6.0	34.4	29.0	25	5.0
31	40.5	28.5	30	7.0	35.5	30.0	25	6.0
32	41.1	27.5	38	7.0	35.0	29.5	25	6.0
34	39.4	27.5	44	7.0	33.3	30.0	25	5.0
35	39.4	27.5	40	7.0	32.2	29.5	25	5.0
36	36.1	27.5	44	7.0	32.8	29.5	25	4.0
37	33.3	27.5	40	6.0	32.8	29.0	25	5.0
Mkr. 21	35.0	27.5	25	8.0	37.2	29.5	25	6.0
Landcut	33.0	28.0	25	5.0	32.2	29.5	25	4.0

July 1970					August 1970			
25	38.9	29.0	25	5.0	45.0	32.0	40	4.0
26	38.9	29.0	25	5.0	44.4	29.5	25	5.0
27	39.4	29.0	33	5.0	40.5	31.0	25	6.0
28	39.4	29.0	25	5.0	-	-	-	-
29	40.0	29.0	25	6.0	-	-	-	-
30	40.0	29.5	25	6.0	-	-	-	-
31	40.5	31.5	37	7.0	-	-	-	-
32	40.5	31.5	68	5.0	-	-	-	-
34	39.4	31.0	50	6.0	-	-	-	-
35	39.4	30.5	40	7.0	-	-	-	-
36	39.4	30.5	35	7.0	-	-	-	-
37	38.3	30.0	37	7.0	-	-	-	-
Mkr. 21	34.4	28.5	35	5.0	37.2	30.5	25	7.0
Landcut	38.4	29.5	30	7.0	-	-	-	-

Table 19 cont.

September 1970						October 1970				
<u>Station</u>	<u>Sal.</u>	<u>W.Temp.</u>	<u>Turb.</u>	<u>pH</u>	<u>D.O.</u>	<u>Sal.</u>	<u>W.Temp.</u>	<u>Turb.</u>	<u>pH</u>	<u>D.O.</u>
25	42.7	28.5	25	7.7	6.0	34.4	23.0	25	8.5	7.0
26	43.3	29.0	25	8.3	7.0	33.3	21.0	25	8.4	7.0
27	44.4	29.0	42	8.0	6.0	32.8	22.0	25	8.4	7.0
28	44.4	29.5	25	8.3	7.0	33.3	21.0	25	8.6	10.0
29	44.4	28.5	30	8.5	6.0	33.9	21.0	25	8.5	8.0
30	45.5	30.5	45	8.5	9.0	35.0	19.5	25	8.4	8.0
31	46.1	28.5	25	8.5	6.0	37.8	21.0	25	8.3	7.0
32	45.0	29.0	34	8.4	5.0	38.9	21.0	30	8.3	9.0
34	44.4	29.0	37	8.3	5.0	41.1	21.0	25	8.1	7.0
35	44.4	30.0	40	8.3	6.0	41.1	21.0	40	8.2	7.0
36	43.3	30.0	38	8.4	6.0	41.1	21.0	25	8.1	7.0
37	43.3	29.5	30	8.5	5.0	41.1	21.0	25	8.1	7.0
Mkr. 21	37.8	31.0	25	7.8	8.0	32.8	20.5	25	8.1	7.0
Landcut	42.2	29.5	25	8.4	5.0	41.1	23.0	25	8.5	7.0

November 1970						December 1970				
25	33.3	14.0	25	8.1	8.0	34.4	16.5	25	8.0	7.0
26	34.4	14.5	25	8.1	8.0	34.4	13.5	25	8.0	8.0
27	35.0	14.5	25	8.1	9.0	35.5	15.0	25	8.1	8.0
28	37.8	15.0	25	8.2	8.0	35.5	16.5	30	8.2	9.0
29	43.3	20.0	27	8.2	7.0	37.2	13.5	25	8.1	8.0
30	42.2	18.0	30	8.1	7.0	38.9	14.0	25	8.2	9.0
31	43.3	20.0	34	8.2	8.0	40.5	16.5	25	8.2	8.0
32	44.4	19.0	40	8.0	8.0	46.1	16.5	45	8.2	9.0
34	45.5	19.0	48	8.1	8.0	46.6	14.5	25	8.1	7.0
35	44.4	18.5	50	8.1	8.0	46.1	14.5	25	8.1	7.0
36	45.5	18.0	58	8.2	8.0	46.6	15.0	25	8.1	7.0
37	45.5	18.5	48	8.1	9.0	46.1	14.5	34	8.1	7.0
Mkr. 21	32.2	14.5	25	8.1	8.0	34.4	16.5	37	8.2	7.0
Landcut	43.9	18.0	35	8.1	7.0	46.1	14.5	30	8.1	7.0

Table 20 Hydrographic Data for Corpus Christi Bay

January 1970

<u>Station</u>	<u>Sal.</u>	<u>W.Temp.</u>	<u>Turb.</u>	<u>pH</u>	<u>Sur. D. O.</u>	<u>Bot. D. O.</u>
Nueces #1	26.6	20.0	160			
Nueces #2	21.1	20.5	90	8.2	6.0	6.0
E. of Causeway	27.8	17.0	55	8.0	3.0	3.5
Reynolds #4	28.3	16.0	25			
Reynolds #5	27.8	16.0	25			
Redfish Bay	27.8	11.0	25			
East Flats	27.8	11.0	25			
Shamrock	28.9	11.0	25			
Bulkheads	27.8	15.0	25			
Alta Vista	27.8	16.0	25	8.0	5.0	6.0
Mkr. 67	27.8	16.0	25			
Mkr. 22	27.8	11.0	25			
Mkr. 1 ICW	27.8	16.0	25	8.1	2.5	5.0
Navy Channel	27.8	15.5	25	8.1	3.0	5.0
Oso Bay	27.8	16.0	25	8.2	5.0	4.5
Nueces #3	23.3	20.0	144			
Viola	28.9	13.0	25	7.6	5.0	5.0
Harbor	27.8	14.0	25	8.1	4.0	4.0
Mkr. 38	27.8	15.0	25	8.1	4.0	4.0

February 1970

Nueces #1	22.2	15.0	120			
Nueces #2	22.2	15.0	115	8.0	8.0	8.0
E. of Causeway	27.8	15.0	25	8.0	7.0	6.5
Reynolds 4	27.8	15.0	25			
Reynolds 5	27.8	15.0	25			
Redfish Bay	27.8	14.0	25			
East Flats	27.8	14.0	25			
Shamrock	27.8	14.0	25			
Bulkheads	28.3	13.5	25			
Alta Vista	27.8	14.0	25	8.0	8.5	8.0
Mkr. 67	27.8	15.0	25			
Mkr. 22	27.8	15.0	25			
Mkr. 1 ICW	30.0	13.5	25	8.0	7.5	6.0
Navy Channel	27.8	14.0	25	8.0	8.0	7.5
Oso Bay	27.8	14.0	25	8.0	7.5	5.5
Nueces #3	22.2	15.5	90			
Viola	27.8	17.5	25	7.9	4.0	2.0
Harbor	27.8	15.0	25	8.0	7.0	6.5
Mkr. 38	28.9	14.5	25	8.0	7.0	7.0

Table 20 cont.

March 1970

<u>Station</u>	<u>Sal.</u>	<u>W.Temp.</u>	<u>Turb.</u>	<u>pH</u>	<u>Sur. D. O.</u>	<u>Bot. D. O.</u>
Nueces #1	23.3	21.5	30			
Nueces #2	23.3	21.5	25	8.0	5.5	5.5
E. of Causeway	27.8	20.5	25	8.0	6.0	6.0
Reynolds 4	27.8	19.0	25			
Reynolds 5	27.8	19.0	25			
Redfish Bay	25.0	14.0	25			
East Flats	27.8	14.0	25			
Shamrock	27.8	12.5	25			
Bulkheads	28.9	19.0	25			
Alta Vista	27.8	18.0	25	7.9	4.0	3.0
Mkr. 67	27.8	20.5	25			
Mkr. 22	27.8	14.0	25			
Mkr. 1 ICW	28.9	18.5	75	8.0	4.5	3.0
Navy Channel	27.8	19.0	30	8.0	7.0	7.0
Oso Bay	27.8	18.5	44	8.0	7.0	7.0
Nueces 3	23.3	21.5	30			
Viola	27.8	17.0	25	7.8	3.0	2.0
Harbor	27.8	19.0	25	7.9	4.5	3.0
Mkr. 38	27.8	19.0	25	8.0	8.5	4.0

April 1970

Nueces #1	22.2	19.5	35			
Nueces #2	21.1	19.5	80	8.1	7.0	7.0
E. of Causeway	27.8	20.0	65	8.0	7.0	7.0
Reynolds 4	28.9	20.0	25			
Reynolds 5	28.9	20.0	25			
Redfish Bay	27.8	19.0	25			
East Flats	30.0	19.0	25			
Shamrock	30.0	19.0	25			
Bulkheads	30.0	18.5	25			
Alta Vista	28.9	19.0	25	7.7	7.0	6.5
Mkr. 67	27.8	20.0	25			
Mkr. 22	28.9	19.5	25			
Mkr. 1 ICW	29.4	19.0	25	8.1	4.0	6.0
Navy Channel	28.9	19.0	25	8.1	5.0	5.0
Oso Bay	27.8	17.5	25	8.1	4.0	3.0
Nueces #3	22.2	19.5	38			
Viola	27.8	21.0	25	7.7	4.5	3.5
Harbor	27.8	20.0	25	8.0	6.0	4.0
Mkr. 38	28.9	19.0	33	8.0	3.0	3.0

Table 20 cont.

May 1970

<u>Station</u>	<u>Sal.</u>	<u>W.Temp.</u>	<u>Turb.</u>	<u>pH</u>	<u>Sur. D. O.</u>	<u>Bot. D. O.</u>
Nueces #1	27.8	25.0	195			
Nueces #2	27.8	25.0	245	8.5	4.5	4.5
E. of Causeway	27.8	25.0	66	8.2	6.0	4.0
Reynolds #4	27.8	24.0	25			
Reynolds #5	27.8	24.5	25			
Redfish Bay	25.5	24.0	25			
East Flats	23.3	24.0	25			
Shamrock	30.0	23.5	25			
Bulkheads	31.1	23.5	25			
Alta Vista	30.0	23.0	25	8.3	4.0	2.5
Mkr. 67	30.0	25.0	25			
Mkr. 22	23.3	24.5	25			
Mkr. 1 ICW	32.2	23.0	25	8.4	6.0	3.0
Navy Channel	31.1	23.0	25	8.3	4.5	3.0
Oso Bay	34.4	23.0	25	8.2	3.5	3.0
Nueces #3	27.8	25.0	300			
Viola	28.9	25.0	25	8.3	4.0	4.0
Harbor	28.9	25.0	25	8.3	5.0	5.0
Mkr. 38	26.6	24.0	25	-	4.0	4.0

June 1970

Nueces #1	0	27.0	133			
Nueces #2	0	26.5	125	8.6	7.0	7.0
E. of Causeway	19.4	27.0	55	7.6	6.5	4.0
Reynolds #4	26.6	26.5	25			
Reynolds #5	26.6	26.5	25			
Redfish Bay	26.6	26.0	25			
E. Flats	25.5	26.0	25			
Shamrock	27.8	26.0	25			
Bulkheads	27.8	25.0	25			
Alta Vista	27.8	26.0	25	8.4	4.5	3.5
Mkr. 67	26.6	26.5	25			
Mkr. 22	26.6	26.0	25			
Mkr. 1 ICW	33.3	25.0	25	8.4	3.5	3.0
Navy Channel	28.9	25.0	25	8.4	4.5	4.5
Oso Bay	27.2	25.0	25	8.4	5.5	4.0
Nueces #3	0	27.0	180			
Viola	27.8	28.0	25	8.0	3.5	0
Harbor	26.6	27.0	25	7.9	5.5	5.0
Mkr. 38	26.6	26.0	25	8.0	4.0	5.0

Table 20 cont.

<u>Station</u>	July					
	<u>Sal.</u>	<u>W.Temp.</u>	<u>Turb.</u>	<u>pH</u>	<u>Sur. D. O.</u>	<u>Bot. D. O.</u>
Nueces #1	14.4	30.0	130			
Nueces #2	10.0	29.5	138	8.0	6.5	6.5
E. of Causeway	23.3	29.0	25	8.0	6.5	4.5
Reynolds 4	25.5	30.0	25			
Reynolds 5	25.5	30.0	25			
Redfish Bay	29.4	30.5	25			
East Flats	29.4	30.0	25			
Shamrock	30.0	30.0	25			
Bulkheads	30.0	30.0	25			
Alta Vista	24.4	30.0	25	8.0	6.5	1.5
Mkr. 67	24.4	30.0	25			
Mkr. 22	30.0	30.5	25			
Mkr. 1 ICW	31.1	29.5	25	8.3	6.5	3.5
Navy Channel	31.1	30.0	25	7.9	5.5	1.5
Oso Bay	25.0	30.0	25	7.9	5.5	2.5
Nueces #3	14.4	30.0	25			
Viola	31.1	31.0	25	7.7	5.0	0
Harbor	31.1	31.0	25	8.0	6.5	1.5
Mkr. 38	31.1	30.0	25	8.2	5.5	3.5

August 1970

Nueces #1	24.4	31.5	150			
Nueces #2	24.4	31.5	150	8.0	6.0	6.0
E. of Causeway	28.9	31.5	95	8.0	5.5	4.5
Reynolds #4	30.0	31.5	25			
Reynolds #5	30.0	31.5	25			
Redfish Bay	32.2	31.5	25			
East Flats	30.5	31.5	25			
Shamrock	30.0	31.5	25			
Bulkheads	30.0	31.5	25			
Alta Vista	27.8	30.5	25	8.0	4.5	4.5
Mkr. 67	30.0	31.5	25			
Mkr. 22	28.9	31.5	25			
Mkr. 1 ICW	38.9	32.0	25	8.4	4.5	5.5
Navy Channel	36.6	31.5	25	8.2	4.0	3.5
Oso Bay	31.1	31.0	25	8.1	4.5	4.5
Nueces #3	27.8	31.5	110			
Viola	30.5	32.0	25	7.5	0	0
Harbor	30.5	31.5	25	7.6	4.5	2.0
Mkr. 38	33.3	31.5	25	8.0	5.0	5.5

Table 20 cont.

September 1970

<u>Station</u>	<u>Sal.</u>	<u>W.Temp.</u>	<u>Turb.</u>	<u>pH</u>	<u>Sur. D. O.</u>	<u>Bot. D. O.</u>
Nueces #1	25.0	28.0	180	7.9	5.0	5.0
Nueces #2	-	-	-			
E. of Causeway	28.3	28.0	210	7.9	4.0	2.0
Reynolds 4	33.3	29.5	25			
Reynolds 5	33.3	29.5	25			
Redfish Bay	32.2	29.0	25			
East Flats	32.2	29.0	25			
Shamrock	32.2	29.0	25			
Bulkheads	32.2	29.0	25			
Alta Vista	30.0	28.5	25	8.2	2.5	2.5
Mkr. 67	30.0	29.0	25			
Mkr. 22	32.2	29.0	25			
Mkr. 1 ICW	37.7	29.0	25	8.4	4.0	3.0
Navy Channel	32.2	28.5	25	8.4	3.0	4.0
Oso Bay	30.0	28.5	25	8.1	4.5	2.5
Nueces #3	26.6	28.0	220			
Viola	26.6	29.0	25	8.1	6.5	0
Harbor	32.2	29.0	25	8.1	4.0	3.0
Mkr. 38	33.3	29.5	25	8.2	4.0	3.0

October 1970

Nueces #1	27.8	26.0	95			
Nueces #2	27.8	26.0	95	8.4	4.0	4.0
E. of Causeway	28.9	26.0	25	8.4	5.0	5.0
Reynolds 4	27.8	28.0	25			
Reynolds 5	27.8	27.5	25			
Redfish Bay	16.7	27.0	25			
East Flats	26.6	27.0	25			
Shamrock	30.0	27.0	25			
Bulkheads	28.9	27.0	25			
Alta Vista	30.0	27.0	25	8.2	3.5	3.5
Mkr. 67	28.9	27.0	25			
Mkr. 22	26.6	27.5	25			
Mkr. 1 ICW	30.0	27.0	25	8.3	3.0	3.0
Navy Channel	30.0	27.0	25	8.4	3.5	2.5
Oso Bay	30.0	26.0	25	8.3	5.0	4.0
Nueces #3	27.8	26.0	60			
Viola	31.1	28.0	25	8.0	2.5	0.4
Harbor	32.2	27.0	25	7.8	5.5	0
Mkr. 38	27.8	27.5	25	8.3	3.5	3.0

Table 20 cont.

November 1970

<u>Station</u>	<u>Sal.</u>	<u>W.Temp.</u>	<u>Turb.</u>	<u>pH</u>	<u>Sur. D. O.</u>	<u>Bot. D. O.</u>
Nueces #1	25.5	15.0	120			
Nueces #2	26.7	15.0	110	8.4	5.5	5.5
E. of Causeway	27.8	15.0	25	8.3	7.0	5.5
Reynolds 4	28.9	16.5	25			
Reynolds 5	28.9	16.5	25			
Redfish Bay	22.2	15.0	25			
East Flats	28.8	16.0	25			
Shamrock	28.9	16.0	25			
Bulkheads	27.8	19.0	25			
Alta Vista	30.0	16.5	25	8.2	4.0	4.0
Mkr. 67	32.2	16.0	25			
Mkr. 22	30.0	16.0	25			
Mkr. 1 ICW	30.0	19.5	25	8.4	4.0	4.0
Navy Channel	28.0	16.0	25	8.4	5.0	3.0
Oso Bay	27.8	13.5	25	8.3	3.5	6.5
Nueces #3	26.7	15.0	89			
Viola	28.3	21.0	25	7.8	3.0	1.5
Harbor	30.0	18.5	25	8.2	4.5	4.0
Mkr. 38	30.0	18.0	25	8.2	4.5	4.0

December 1970

Nueces #1	28.9	21.5	215			
Nueces #2	28.9	22.0	205	8.4	4.5	4.5
E. of Causeway	28.9	22.0	90	8.3	4.0	4.0
Reynolds 4	30.0	22.0	25			
Reynolds 5	30.0	22.0	25			
Redfish Bay	30.0	21.0	25			
East Flats	30.0	21.5	25			
Shamrock	30.0	21.0	25			
Bulkheads	31.1	21.0	25			
Alta Vista	30.0	21.0	25	8.2	4.5	3.0
Mkr. 67	30.0	21.0	25			
Mkr. 22	30.0	21.0	25			
Mkr. 1 ICW	31.1	22.0	25	8.4	3.0	2.0
Navy Channel	30.0	21.0	25	8.4	5.0	3.0
Oso Bay	30.0	20.5	54	8.2	4.0	3.5
Nueces #3	28.9	22.0	190			
Viola	27.8	21.0	25	7.7	4.5	0.5
Harbor	28.9	21.0	25	8.2	4.5	2.0
Mkr. 38	31.1	21.5	25	8.2	5.0	3.5

Table 21 Hydrographic Data for Aransas Bay

January 1970						February 1970				
Station	Sal.	W.Temp.	Turb.	pH	D.O.	Sal.	W.Temp.	Turb.	pH	D.O.
1	20.0	8.7	25	7.9	10.0	21.1	13.8	25	7.7	9.0
						22.2	14.0	25	7.5	8.0
2	20.0	9.0	25	8.1	10.0	22.2	14.0	25	7.9	8.0
						22.2	14.2	25	7.9	7.5
3	19.4	9.0	27	8.1	10.0	24.4	13.5	25	8.0	9.0
						21.7	13.5	25	8.0	8.0
4	21.1	9.5	25	8.0	9.0	26.1	13.7	32	8.0	9.0
						22.2	14.0	25	8.1	8.0
5	20.5	9.0	29	8.2	10.0	26.1	14.0	25	8.2	9.0
						23.3	14.7	25	8.1	7.0
6	18.3	9.8	33	8.3	9.0	19.4	14.0	25	8.3	9.0
						20.5	14.3	25	8.2	9.0
7	17.8	9.0	25	8.3	11.0	18.9	14.2	47	8.3	9.0
						20.0	14.0	25	8.3	9.0
8	13.9	10.0	25	8.3	8.0	17.8	14.5	46	8.2	9.0
						16.7	14.8	72	8.3	8.0
9	12.8	10.5	25	8.4	10.0	17.8	15.5	78	8.3	9.0
						16.7	14.2	25	8.4	9.0
10	16.7	10.5	25	8.3	11.0	16.7	12.0	25	7.2	9.0
						18.9	16.0	25	8.3	8.5
11	16.7	10.0	25	8.3	10.0	17.2	14.5	62	8.2	8.0
						22.2	13.9	95	8.3	8.0
12	17.8	10.0	25	8.2	11.0	19.4	14.5	30	8.3	8.0
						18.3	13.5	25	8.1	9.0
13	20.0	10.5	52	8.3	10.0	25.0	14.0	45	8.1	10.0
						22.2	13.0	25	8.2	8.0
14	15.6	9.8	42	8.4	10.0	20.0	14.5	71	8.4	8.5
						18.9	13.9	25	8.4	9.0
15	14.4	9.8	55	8.4	10.0	18.9	14.5	96	8.3	9.0
						16.7	14.0	67	8.2	8.0
16	13.9	9.5	25	8.3	10.0	15.6	15.0	25	8.4	9.0
						15.0	15.0	25	8.2	9.0
17	12.8	10.0	25	8.3	10.0	15.0	15.0	33	8.3	9.0
						13.3	15.6	25	8.3	9.0
18	13.9	9.5	25	8.2	10.0	15.0	15.0	25	8.4	8.5
						12.8	15.2	25	8.4	9.0
19	11.1	10.0	25	8.3	11.0	12.2	15.5	30	8.3	8.0
						12.8	15.0	25	8.3	9.0
20	11.1	10.9	45	8.4	11.0	12.2	15.5	72	8.4	8.0
						13.3	15.0	25	8.3	9.0
21	12.2	11.0	25	8.3	11.0	13.9	15.6	55	8.3	8.0
						14.4	14.9	30	8.3	9.0
22	13.9	11.5	25	8.2	11.0	14.4	15.8	135	8.3	9.0
						16.1	15.8	25	8.4	8.0
23	13.3	8.9	25	8.1	10.0	16.7	13.3	70	8.1	9.0
						16.7	13.9	25	7.2	8.3

Table 21 cont.

January 1970						February 1970				
Station	Sal.	W.Temp.	Turb.	pH	D.O.	Sal.	W.Temp.	Turb.	pH	D.O.
24	13.3	9.1	25	7.8	9.0	13.9	13.9	25	8.0	8.0
						14.4	13.9	25	7.8	8.0
25	1.1	9.4	98	8.1	10.0	9.4	13.9	53	8.2	9.0
						6.7	13.9	135	8.1	7.0
26	6.7	10.0	25	8.0	9.0	8.9	13.9	39	8.3	9.0
						10.0	15.0	48	8.1	8.0
27	4.4	10.9	225	8.1	10.0	8.3	13.9	170	8.3	9.0
						10.0	15.0	46	8.1	9.0
28	5.6	9.7	75	8.0	10.0	10.0	12.8	113	8.3	8.0
						11.1	15.9	25	8.2	9.0
29	8.3	10.0	25	8.0	11.0	10.5	13.9	28	8.2	8.0
						12.2	15.6	25	8.2	9.0
30	12.2	9.4	25	8.2	10.0	16.1	13.9	50	8.1	9.0
						15.6	15.0	25	8.1	8.0
31	13.3	9.4	72	8.1	9.0	17.2	13.9	37	8.0	10.0
						14.4	15.6	25	8.3	9.0
March 1970						April 1970				
1	23.3	19.0	25	8.2	6.0	18.9	17.0	25	7.0	8.0
	22.8	17.0	25	7.5	7.5	25.5	25.0	42	7.4	7.0
2	23.9	19.8	25	8.3	7.0	20.0	17.0	25	7.5	8.0
	23.3	17.0	25	7.8	7.0	27.8	25.0	48	7.8	7.0
3	25.5	18.8	25	8.3	8.0	23.9	17.0	25	8.1	8.0
	24.4	16.5	25	8.0	7.5	28.9	25.0	45	8.0	7.0
4	30.0	18.0	25	8.2	7.0	22.8	17.0	79	7.9	7.0
	27.8	16.0	25	8.1	7.0	28.9	24.5	50	8.1	6.0
5	27.8	18.8	25	8.4	8.0	20.5	17.0	39	7.9	8.0
	28.3	16.5	25	8.1	7.0	26.6	24.5	53	8.1	7.0
6	24.4	18.8	25	8.3	8.0	20.0	16.0	25	8.1	7.0
	22.2	16.5	25	8.2	8.0	26.7	25.0	32	8.1	7.0
7	23.3	19.5	25	8.2	7.0	16.7	17.0	25	8.3	8.0
	19.4	17.0	25	8.2	7.0	24.4	25.0	60	8.1	7.0
8	17.8	20.3	74	8.4	8.0	11.1	18.0	243	8.3	8.0
	17.8	17.5	132	8.2	8.0	21.1	26.0	187	8.2	7.0
9	16.7	21.0	25	8.3	8.0	12.2	18.0	52	8.3	9.0
	17.8	17.5	103	8.2	8.0	18.9	25.0	107	8.2	6.5
10	17.8	19.8	25	8.3	7.0	16.1	19.0	31	8.3	9.0
	17.8	18.0	25	8.2	8.0	21.1	25.0	105	8.1	7.0
11	19.4	20.3	57	8.2	8.0	16.7	17.0	54	8.3	8.0
	18.9	17.0	65	8.2	8.0	22.2	25.0	112	8.2	7.0
12	18.3	20.1	47	8.2	8.0	11.1	18.0	37	8.5	10.0
	17.8	17.5	63	8.2	8.0	22.2	25.5	142	8.2	8.0
13	28.3	18.9	25	8.1	7.0	13.3	17.0	76	8.4	9.0
	25.5	17.0	25	8.2	7.0	32.2	24.8	66	8.1	7.0
14	20.5	20.0	41	8.3	8.0	13.3	17.0	54	8.5	9.0
	18.3	18.0	85	8.3	8.0	26.7	25.2	109	8.2	7.0

Table 21 cont.

March 1970						April 1970				
Station	Sal.	W.Temp.	Turb.	pH	D.O.	Sal.	W.Temp.	Turb.	pH	D.O.
15	16.7	20.0	54	8.3	7.0	11.1	17.0	125	8.4	8.0
	17.8	18.0	158	8.2	8.0	21.1	25.5	115	8.3	7.5
16	16.7	19.0	25	7.4	8.0	15.0	18.0	53	8.3	8.0
	16.7	17.5	25	8.2	9.0	17.8	25.5	65	8.4	7.5
17	14.4	19.0	25	7.6	8.0	14.4	19.0	27	8.3	9.0
	15.5	18.0	25	8.3	9.0	17.2	25.5	60	8.3	8.0
18	15.6	20.0	25	7.7	8.0	15.0	18.0	36	8.4	8.0
	14.4	18.0	25	8.3	9.0	17.8	26.0	41	8.2	7.0
19	14.4	20.5	25	7.8	7.0	14.4	18.0	200	8.4	8.0
	13.9	17.5	102	8.2	9.0	17.2	26.0	180	8.0	7.0
20	14.4	20.9	25	7.8	8.0	14.5	19.0	230	8.3	8.0
	14.4	18.0	150	8.3	9.0	17.8	26.0	115	8.0	6.0
21	14.4	21.0	25	7.8	8.0	15.5	18.0	54	8.3	9.0
	14.4	18.0	25	8.2	9.0	21.1	26.0	73	8.0	7.0
22	16.7	21.0	25	7.8	8.0	16.6	19.0	25	8.4	8.0
	16.1	18.0	25	8.2	9.0	19.4	26.0	45	7.9	7.0
23	16.7	10.0	25	7.8	7.0	14.4	16.5	25	8.4	9.0
	15.6	14.7	25	7.7	9.0	20.5	26.0	25	8.0	7.0
24	15.6	11.1	34	7.8	8.0	13.3	16.0	25	8.4	8.0
	14.4	13.9	25	7.8	9.5	19.4	26.0	26	7.9	6.0
25	10.0	10.6	25	8.2	8.0	8.3	16.0	50	8.4	8.0
	2.2	16.7	113	8.3	7.0	14.4	25.0	50	8.0	7.0
26	1.1	9.4	190	8.5	7.5	12.2	17.0	25	8.3	8.0
	7.8	16.7	64	8.5	7.5	18.3	25.5	28	8.0	7.0
27	0	10.0	150	8.3	8.0	11.1	18.0	210	8.4	9.0
	4.4	18.0	222	8.1	7.0	17.8	26.0	150	8.0	7.0
28	8.9	10.6	125	8.2	8.0	13.3	19.0	25	8.4	9.0
	11.1	17.8	50	8.0	7.5	20.0	26.0	28	8.0	7.0
29	10.0	11.1	110	8.3	8.0	13.3	19.5	25	8.3	9.0
	12.2	17.8	74	8.0	9.0	20.5	25.5	30	8.1	6.0
30	12.2	11.6	30	8.3	7.0	12.8	19.5	25	8.4	9.0
	15.5	17.2	247	8.0	8.5	21.1	26.0	48	7.9	5.0
31	11.1	11.6	95	8.4	8.0	12.2	19.5	109	8.2	10.0
	13.3	17.8	117	8.1	10.0	18.9	26.0	106	8.0	7.0
May 1970						June 1970				
1	23.9	25.3	25	8.1	9.0	17.8	25.0	25	7.5	7.0
	22.2	24.0	25	8.3	7.0	21.1	28.0	25	7.6	7.0
2	25.5	25.5	25	8.1	9.0	17.2	25.0	56	7.8	7.0
	23.3	24.0	25	8.3	7.0	23.3	27.0	25	7.5	5.0
3	27.2	25.0	25	8.3	9.0	17.8	25.0	29	8.1	8.0
	26.6	24.0	25	8.4	6.3	26.7	29.0	25	7.5	6.0
4	25.5	25.0	41	8.4	10.0	18.9	25.0	27	8.1	7.0
	28.9	24.0	90	8.3	7.0	29.4	28.0	25	7.6	5.0

Table 21 cont.

May 1970						June 1970				
Station	Sal.	W.Temp.	Turb.	pH	D.O.	Sal.	W.Temp.	Turb.	pH	D.O.
5	25.5	26.0	39	8.3	10.0	18.9	25.0	25	8.2	8.0
	25.5	24.0	300	8.4	7.0	27.8	28.0	25	7.7	6.0
6	25.5	25.5	55	8.2	9.0	17.8	25.0	52	8.1	7.0
	22.2	23.5	34	8.4	7.0	24.4	28.0	25	7.8	6.0
7	23.9	26.0	50	8.2	9.0	17.8	25.0	32	8.1	8.0
	22.2	23.5	43	8.4	7.0	24.4	28.0	25	7.9	7.0
8	20.5	25.5	88	8.1	8.5	17.8	25.0	33	8.1	7.0
	15.6	23.5	80	8.4	8.0	22.2	28.0	31	8.0	6.0
9	17.2	25.0	25	8.1	8.0	17.8	25.0	38	8.1	8.0
	15.6	24.0	39	8.4	7.0	18.9	28.0	25	7.7	7.0
10	20.5	26.0	25	8.0	9.0	16.7	26.0	25	8.1	8.0
	20.0	25.0	41	8.4	8.0	16.7	28.0	25	8.0	7.0
11	22.8	25.5	33	8.1	9.0	20.0	25.0	25	8.2	7.0
	16.7	23.8	56	8.4	7.0	20.5	28.0	52	7.8	6.0
12	22.2	26.0	41	8.2	9.0	18.9	25.0	94	8.2	8.0
	15.6	24.0	47	8.4	7.0	23.9	28.0	38	7.8	6.0
13	30.5	26.0	29	8.3	9.0	20.0	25.0	32	8.2	5.0
	22.8	23.5	35	8.1	8.0	34.4	28.0	28	7.7	6.0
14	26.1	26.0	26	8.1	8.5	17.8	25.0	37	8.3	7.0
	16.1	23.0	50	8.5	7.0	24.4	28.0	26	7.9	6.0
15	21.1	27.0	48	8.1	9.0	16.7	25.0	55	8.0	7.0
	14.4	24.0	270	8.4	8.0	21.1	28.0	38	8.0	7.0
16	18.9	21.5	25	8.2	9.0	15.6	26.0	33	8.2	7.0
	18.9	24.0	39	8.3	8.0	16.7	29.0	25	7.9	7.0
17	16.7	23.0	25	8.2	9.0	14.4	25.0	25	8.3	8.0
	19.4	24.0	28	8.4	7.0	14.4	29.0	25	8.0	7.0
18	16.7	24.0	25	8.3	10.0	15.6	25.0	25	8.2	6.0
	18.9	24.0	35	8.4	8.0	15.6	28.0	25	8.0	7.0
19	16.1	24.5	25	8.3	9.0	10.0	26.0	73	8.4	7.0
	15.5	24.0	41	8.2	8.0	6.7	29.0	40	8.2	8.0
20	16.7	23.0	25	8.3	10.0	6.7	27.0	36	8.3	8.0
	17.8	25.0	51	8.6	9.0	11.1	28.0	43	8.1	8.0
21	17.8	22.5	25	8.3	9.0	10.0	25.0	31	8.3	8.0
	17.8	24.0	74	8.4	9.0	11.1	29.0	27	8.1	7.0
22	16.7	22.0	25	8.2	9.0	14.4	26.0	52	8.1	6.0
	18.9	24.0	55	8.4	8.0	12.2	29.0	28	8.0	6.0
23	15.6	23.5	41	8.0	7.0	16.1	25.0	29	7.3	7.0
	15.5	25.0	35	7.5	6.0	17.2	27.0	61	8.2	6.0
24	15.6	23.5	30	8.2	6.5	11.7	25.0	25	8.0	7.0
	16.7	25.0	44	8.2	6.0	13.9	28.0	34	8.2	5.0
25	15.0	23.5	80	8.1	7.0	1.1	23.0	44	8.0	4.0
	15.6	25.0	160	8.2	5.5	6.1	29.0	39	8.5	7.0
26	11.1	25.0	46	8.2	7.5	1.1	23.0	43	7.4	4.0
	11.1	26.0	63	8.2	6.5	6.7	29.0	46	8.4	6.0
27	11.1	25.0	36	8.0	6.0	1.1	23.0	260	7.4	5.0
	11.1	26.0	97	8.2	5.5	3.9	29.0	260	8.5	6.0

Table 21 cont.

May 1970						June 1970				
<u>Station</u>	<u>Sal.</u>	<u>W.Temp.</u>	<u>Turb.</u>	<u>pH</u>	<u>D.O.</u>	<u>Sal.</u>	<u>W.Temp.</u>	<u>Turb.</u>	<u>pH</u>	<u>D.O.</u>
28	11.7	25.0	25	8.1	6.0	7.8	24.0	54	7.3	7.0
	12.2	25.5	29	8.2	5.0	7.2	29.0	92	8.2	5.0
29	15.6	25.0	39	8.0	7.0	10.6	24.0	43	7.7	7.0
	16.1	25.5	36	8.3	6.5	10.0	29.0	49	8.2	6.0
30	16.1	24.0	31	8.1	7.0	13.9	24.0	31	7.8	7.0
	16.7	26.0	27	8.0	7.0	16.1	29.0	70	8.2	7.0
31	17.8	24.0	52	8.1	7.5	16.1	24.0	50	7.8	7.0
	18.9	25.0	71	7.9	6.5	20.5	29.0	118	8.2	7.0
July 1970						August 1970				
1	17.8	29.0	25	7.1	7.0	27.8	30.0	25	7.9	7.0
	27.8	25.0	25	8.2	6.0					
2	21.1	29.0	25	7.2	6.0	30.0	29.5	25	8.0	6.0
	31.6	29.2	25	8.1	5.0					
3	25.5	29.0	25	7.5	6.0	32.2	29.5	25	8.0	6.0
	30.5	29.0	25	8.2	6.0					
4	34.4	27.0	25	7.5	6.0	34.4	30.0	25	8.0	7.0
	33.9	29.0	35	8.2	6.0					
5	26.7	29.0	25	7.8	7.0	31.6	29.0	25	8.0	6.0
	32.8	28.5	31	8.2	5.0					
6	22.2	29.0	25	8.0	7.0	28.3	29.5	27	8.2	7.0
	27.8	29.0	25	8.3	5.0					
7	16.7	29.0	25	8.2	7.0	24.5	30.0	25	8.2	7.0
	24.4	29.0	36	8.3	6.0					
8	21.1	29.0	25	8.2	7.0	24.4	29.5	68	8.2	7.0
	21.7	28.5	190	8.3	6.0					
9	17.8	29.0	25	8.4	6.0	23.3	30.0	29	8.2	8.0
	17.8	29.0	35	8.4	6.0					
10	15.6	29.0	25	8.2	8.0	20.5	31.0	30	8.3	9.0
	18.9	30.0	25	8.3	7.0					
11	22.2	29.0	25	8.1	5.0	25.5	29.0	33	8.2	5.0
	23.3	28.0	54	8.2	4.0					
12	26.7	29.0	25	8.0	7.0	25.5	29.5	47	8.2	7.0
	23.3	29.0	63	8.3	6.0					
13	34.4	29.0	25	7.9	6.0	33.0	30.0	41	8.1	7.0
	34.4	28.5	69	8.1	5.5					
14	33.3	29.0	25	8.2	6.0	31.1	29.5	74	8.2	5.0
	30.0	29.0	46	8.2	7.0					
15	21.1	30.0	25	8.3	7.0	25.5	30.0	35	8.3	6.0
	21.1	30.0	80	8.4	7.0					
16	15.6	29.0	25	8.4	7.0	18.9	30.0	25	8.5	7.0
	15.0	29.5	25	8.4	6.0					
17	13.3	29.0	25	8.5	6.0	17.8	30.0	25	8.3	8.0
	14.4	29.5	25	8.4	6.0					

Table 21 cont.

July 1970						August 1970				
<u>Station</u>	<u>Sal.</u>	<u>W.Temp.</u>	<u>Turb.</u>	<u>pH</u>	<u>D.O.</u>	<u>Sal.</u>	<u>W.Temp.</u>	<u>Turb.</u>	<u>pH</u>	<u>D.O.</u>
18	14.4	29.0	25	8.4	7.0	17.8	30.0	25	8.3	7.0
	14.4	29.5	25	8.3	7.0					
19	1.1	28.0	72	9.0	8.0	13.3	30.0	25	8.4	8.0
	10.0	29.5	25	8.4	7.0					
20	5.6	29.0	36	8.4	7.0	11.1	30.5	25	8.4	8.0
	10.0	30.0	25	8.4	7.0					
21	11.1	29.0	25	8.3	7.0	13.3	30.0	25	8.4	7.0
	10.0	29.5	25	8.3	7.0					
22	12.2	29.0	31	8.3	7.0	15.6	30.0	25	8.3	8.0
	13.3	30.0	25	8.2	7.0					
23	12.2	29.0	25	7.7	6.0	21.1	29.0	47	8.2	5.0
	14.4	29.0	37	8.4	6.0					
24	8.3	29.0	25	8.0	5.0	20.0	29.0	25	8.2	4.0
	12.2	28.5	42	8.3	5.0					
25	1.1	29.0	39	8.3	5.0	12.2	29.5	25	8.4	5.0
	3.3	30.0	36	8.5	6.0					
26	0	29.0	54	8.3	5.0	11.1	29.0	150	8.6	4.0
	2.2	30.0	85	8.5	6.0					
27	0	27.0	100	8.3	5.0	6.7	30.0	95	8.6	5.0
	0	28.5	210	9.1	4.5					
28	1.7	29.0	81	7.8	5.5	10.6	30.5	38	8.4	6.0
	3.3	29.5	70	8.2	6.0					
29	5.6	30.0	37	7.7	6.0	13.9	30.0	25	8.2	6.0
	4.5	30.0	160	8.2	6.0					
30	10.0	30.0	25	7.8	6.0	21.1	30.0	36	8.2	6.0
	12.2	29.2	47	8.3	6.3					
31	12.8	29.0	25	7.7	6.0	23.3	30.0	39	8.2	5.0
	12.8	29.0	140	8.3	5.5					
September 1970						October 1970				
1	28.9	30.0	25	7.5	7.0	13.9	23.0	25	8.3	7.0
2	31.6	29.5	25	7.7	7.0	13.9	22.5	25	8.3	8.0
3	36.1	29.0	25	7.8	6.0	15.5	22.5	25	8.3	8.0
4	37.2	29.0	25	7.8	8.0	14.4	22.5	25	8.3	7.0
5	31.2	29.0	25	7.8	7.0	13.9	22.5	43	8.3	8.0
6	31.1	29.0	25	8.0	6.0	14.4	22.0	61	8.3	7.0
7	25.0	29.0	25	8.1	7.0	15.5	22.0	25	8.3	7.0
8	28.3	29.0	38	8.0	7.0	11.7	23.0	52	8.5	7.0
9	26.6	30.0	34	8.1	7.0	11.1	22.5	25	8.4	7.0
10	22.2	30.0	25	8.2	8.0	13.9	24.0	25	8.4	8.0
11	27.8	29.0	25	8.1	6.0	13.3	22.0	29	8.4	7.0
12	28.9	29.0	72	8.1	6.0	12.2	22.0	25	8.4	8.0
13	33.3	29.0	25	8.1	7.0	16.7	23.0	25	8.4	8.0
14	31.1	29.0	28	8.1	7.0	13.3	22.0	25	8.4	7.0

Table 21 cont.

September 1970						October 1970				
<u>Station</u>	<u>Sal.</u>	<u>W.Temp.</u>	<u>Turb.</u>	<u>pH</u>	<u>D.O.</u>	<u>Sal.</u>	<u>W.Temp.</u>	<u>Turb.</u>	<u>pH</u>	<u>D.O.</u>
15	28.9	30.0	47	8.2	7.0	11.7	22.5	25	8.5	7.0
16	23.3	30.0	96	8.3	7.0	11.1	23.5	25	8.5	7.0
17	18.9	30.0	25	8.2	7.0	11.1	23.5	25	8.5	8.0
18	19.4	29.5	25	8.3	7.0	11.1	23.5	25	8.5	8.0
19	16.7	30.0	25	8.3	7.5	8.9	23.0	25	8.4	7.0
20	8.9	30.0	39	8.3	8.0	7.7	23.0	25	8.4	8.0
21	14.4	30.0	25	8.3	8.0	5.6	23.0	26	8.5	8.0
22	17.8	30.0	25	8.2	8.0	13.9	23.5	28	8.3	8.0
23	17.2	30.0	84	8.3	7.0	12.2	26.0	127	8.4	6.0
24	20.0	29.5	60	8.1	7.0	10.0	26.0	63	8.4	7.0
25	7.8	30.0	100	8.2	6.0	3.3	25.0	52	8.5	4.0
26	8.9	29.5	105	8.3	7.0	4.4	26.0	215	8.5	6.0
27	1.1	30.0	125	8.4	7.0	0	27.0	220	8.7	6.0
28	3.9	30.0	200	8.3	8.0	2.2	27.5	232	8.4	6.0
29	5.0	30.0	50	8.0	7.0	3.9	27.0	43	8.3	6.0
30	13.3	30.0	48	8.1	7.0	15.6	27.0	41	8.3	7.0
31	11.7	30.0	32	8.3	7.0	12.2	26.0	39	8.3	6.0
November 1970						December 1970				
1	18.9	20.0	25	7.9	8.0	21.1	15.0	25	8.0	7.0
2	21.1	20.0	25	7.9	6.5	21.1	14.5	25	8.2	7.0
3	26.7	20.0	25	7.8	6.0	24.4	14.5	25	8.2	6.0
4	27.8	20.0	29	7.9	7.0	24.4	14.8	31	8.2	7.0
5	27.8	19.5	26	7.9	7.0	23.9	14.0	25	8.3	8.0
6	21.1	19.0	25	8.0	6.0	20.0	14.0	25	8.4	8.0
7	18.9	20.0	25	8.0	8.0	17.8	13.5	25	8.3	9.0
8	18.9	21.0	25	8.0	7.0	12.8	14.0	25	8.4	8.0
9	17.2	21.0	25	7.9	7.0	13.3	14.0	25	8.5	9.0
10	15.6	21.0	25	8.0	9.0	17.8	15.0	25	8.3	8.0
11	18.9	21.0	25	8.0	7.0	15.6	13.0	25	8.4	8.0
12	17.8	21.0	25	8.0	7.0	13.3	13.5	25	8.4	9.0
13	27.2	20.0	27	7.9	6.0	15.6	14.0	25	8.5	8.0
14	20.0	21.0	25	8.1	7.0	14.5	14.0	25	8.6	9.0
15	15.0	21.5	25	8.0	7.0	11.1	14.0	25	8.6	9.0
16	15.6	20.5	25	8.0	7.5	15.6	14.5	25	8.5	9.0
17	12.2	20.0	25	8.0	8.0	10.6	14.8	25	8.3	9.0
18	12.2	20.5	25	8.0	8.0	10.6	15.0	25	8.3	9.0
19	10.0	20.0	58	7.9	7.5	9.4	14.0	25	8.3	9.0
20	10.0	20.5	30	7.9	8.0	10.0	14.0	25	8.3	9.0
21	10.0	21.0	26	7.9	8.0	11.1	14.0	25	8.2	9.0
22	11.1	20.5	25	8.0	9.0	12.2	15.0	25	8.5	9.0
23	10.0	19.5	196	8.0	6.0	9.4	14.0	25	8.4	9.0

Table 21 cont.

November 1970						December 1970				
<u>Station</u>	<u>Sal.</u>	<u>W.Temp.</u>	<u>Turb.</u>	<u>pH</u>	<u>D.O.</u>	<u>Sal.</u>	<u>W.Temp.</u>	<u>Turb.</u>	<u>pH</u>	<u>D.O.</u>
24	7.2	19.5	122	7.9	5.0	6.7	13.0	25	8.2	8.0
25	0	18.0	300	7.6	6.0	2.2	13.5	41	8.3	7.0
26	2.2	20.0	25	7.8	7.0	3.3	13.5	25	8.0	9.0
27	0	21.0	87	7.9	7.0	1.1	13.0	125	8.0	8.0
28	4.4	20.0	49	7.9	7.0	2.2	14.0	25	8.3	9.0
29	2.2	20.0	26	7.7	6.0	1.1	14.0	25	8.3	8.5
30	8.9	20.0	27	7.9	6.0	7.8	14.5	25	8.4	9.0
31	8.9	19.0	45	7.9	7.0	7.8	14.0	25	8.0	8.0

Table 22 Hydrographic Data for San Antonio Bay

January 1970						February 1970				
<u>Station</u>	<u>Sal.</u>	<u>W.Temp.</u>	<u>Turb.</u>	<u>pH</u>	<u>D.O.</u>	<u>Sal.</u>	<u>W.Temp.</u>	<u>Turb.</u>	<u>pH</u>	<u>D.O.</u>
1	8.9	10.3	25	8.2	11.1	3.9	10.4	193	8.3	10.2
	12.2	8.8	25	8.2	9.6	8.9	13.8	140	8.5	10.8
2	11.1	10.7	25	8.3	10.6	10.5	11.6	89	8.5	9.7
	11.7	8.0	25	8.3	12.2	8.9	13.6	145	8.3	10.2
3	15.5	10.8	25	8.3	11.0	16.7	11.8	158	8.5	9.8
	13.9	8.0	25	8.3	11.8	13.9	14.0	27	8.2	10.4
4	9.4	10.3	53	8.2	9.6	18.9	12.2	115	8.5	9.4
	22.8	8.6	31	8.2	11.4	12.8	14.3	29	8.3	10.4
5	25.5	11.5	42	8.2	10.6	26.6	12.2	83	8.2	9.5
	29.9	8.6	25	8.2	11.8	22.8	14.5	25	8.1	10.6
6	24.4	10.2	25	8.1	10.7	27.8	12.2	152	8.2	9.3
	31.1	8.7	25	8.1	11.2	29.4	14.8	25	8.0	10.3
7	20.0	10.8	25	8.2	11.1	26.1	10.8	64	8.1	9.8
	24.4	8.3	25	8.2	11.8	21.1	15.3	25	8.1	10.7
8	17.8	10.2	25	8.2	10.6	21.1	10.6	49	8.4	10.0
	20.5	8.5	25	8.2	11.7	20.5	15.5	25	8.8	10.6
9	17.2	10.6	27	8.3	10.4	21.7	12.3	120	8.3	9.5
	16.1	8.5	25	8.2	11.9	19.4	15.5	31	8.1	10.4
10	13.3	10.8	53	8.3	10.0	21.1	12.0	200	8.5	9.4
	13.9	8.2	25	8.2	12.1	17.8	15.1	56	8.2	9.9
11	10.0	10.0	27	8.3	10.3	13.9	12.6	205	8.5	9.3
	6.7	9.5	25	8.2	11.2	12.8	16.0	100	8.2	10.2
12	9.9	9.9	27	8.5	10.5	13.3	12.9	167	8.6	9.5
	11.1	8.8	25	8.3	11.6	7.2	15.1	105	8.6	10.5
13	1.1	9.2	350	8.5	10.2	2.2	11.6	320	8.4	9.4
	3.3	9.9	25	8.3	10.4	3.3	15.7	490	8.3	9.8
14	0.5	9.0	450	8.3	9.4	5.6	11.8	120	8.4	9.5
	0.5	9.9	28	8.5	9.4	0.5	16.0	360	8.2	9.8

Table 22 cont.

March 1970						April 1970				
Station	Sal.	W.Temp.	Turb.	pH	D.O.	Sal.	W.Temp.	Turb.	pH	D.O.
1	11.7	19.1	64	8.1	9.8	5.6	16.8	43	6.8	9.4
	2.8	9.9	235	8.3	11.1	6.7	22.0	68	8.3	8.4
2	11.1	18.8	60	8.3	9.9	5.6	17.0	38	9.3	10.2
	4.5	9.9	610	8.3	10.6	8.9	22.1	128	8.3	8.0
3	12.2	18.3	64	8.3	9.4	9.4	17.0	19	9.2	10.4
	13.3	16.3	84	8.1	10.1	6.7	22.5	120	8.5	8.4
4	16.7	18.7	42	8.3	9.7	16.1	17.5	30	9.0	9.7
	17.2	16.0	53	8.2	9.9	12.2	22.6	48	8.3	7.6
5	25.5	18.4	25	8.1	9.4	27.8	17.4	10	9.1	10.1
	22.8	16.5	25	8.2	10.1	26.1	22.9	22	8.1	8.4
6	30.0	18.0	25	8.2	9.6	28.9	17.3	12	6.8	9.9
	26.1	16.3	25	8.2	10.0	27.2	22.5	8	8.1	8.6
7	25.5	19.0	25	8.2	9.2	27.8	17.5	5	8.5	10.2
	18.9	17.4	25	8.2	10.4	21.1	22.8	18	8.2	8.7
8	16.7	18.5	43	8.3	9.9	22.8	18.8	3	6.5	9.4
	17.2	16.7	25	8.2	9.9	15.6	23.2	5	8.0	8.5
9	15.6	18.5	52	8.4	9.9	24.4	17.8	25	8.7	9.9
	13.3	16.9	44	8.2	9.8	14.4	23.0	36	8.2	8.6
10	15.0	19.0	47	8.3	9.5	13.9	18.0	20	9.0	10.4
	11.7	16.5	143	8.2	9.6	11.1	23.3	30	8.2	8.5
11	12.8	19.2	50	8.2	9.4	5.6	18.7	79	9.2	10.1
	11.7	17.1	94	8.2	9.6	11.7	23.7	32	8.2	8.6
12	4.5	19.9	98	8.5	9.9	6.7	18.0	27	9.1	10.4
	4.5	10.9	390	8.4	10.6	3.9	23.6	227	8.6	8.8
13	2.2	20.0	112	8.5	9.9	1.1	18.5	145	9.2	11.0
	2.2	9.8	1500	8.4	10.2	1.1	23.5	380	8.6	9.0
14	0.6	20.3	105	8.4	9.1	0.6	18.2	25	9.0	10.5
	0.5	10.0	340	8.3	10.2	8.2	23.9	128	8.2	8.7
June 1970						July 1970				
1	1.2	26.7	9	8.4	8.6	3.3	28.9	81	8.3	7.1
	2.2	27.5	230	8.4	8.4	2.2	26.3	85	8.2	7.1
2	5.6	26.1	39	8.5	8.7	5.0	29.2	78	8.2	7.2
	2.2	26.9	190	8.4	8.7	4.5	27.2	78	8.1	7.0
3	10.0	24.5	14	8.3	8.4	1.7	28.7	100	8.6	7.4
	5.6	27.9	120	8.3	8.0	8.9	27.8	98	8.2	7.1
4	13.3	24.1	28	8.3	8.2	6.1	28.9	48	8.3	7.1
	3.9	27.8	135	8.4	7.6	7.8	27.8	55	8.1	7.3
5	24.4	22.9	19	8.1	9.2	10.0	29.0	20	8.3	7.3
	6.1	28.3	45	8.4	8.2	8.9	28.0	50	8.2	7.5
6	24.4	23.0	22	8.2	9.2	11.1	29.1	22	8.3	7.0
	10.6	28.4	25	8.3	8.0	11.1	28.1	65	8.1	7.1
7	21.1	22.3	41	8.2	9.0	11.1	29.3	30	8.2	7.5
	10.6	28.6	40	8.3	8.1	11.1	27.9	40	8.0	7.6
8	22.2	23.1	66	8.1	8.9	15.6	29.7	12	8.2	7.4
	15.6	28.6	35	8.3	7.5	10.6	28.1	45	8.1	7.6

No May data

Table 22 cont.

June 1970						July 1970				
<u>Station</u>	<u>Sal.</u>	<u>W.Temp.</u>	<u>Turb.</u>	<u>pH</u>	<u>D. O.</u>	<u>Sal.</u>	<u>W.Temp.</u>	<u>Turb.</u>	<u>pH</u>	<u>D. O.</u>
9	20.0	23.2	150	8.2	8.7	13.9	29.2	20	8.2	7.8
	16.1	28.9	35	8.3	8.2	14.4	28.0	78	8.1	7.5
10	10.6	22.2	40	8.4	9.2	7.8	29.5	28	8.4	8.2
	16.1	28.8	40	8.4	8.3	13.3	27.3	155	8.0	7.5
11	12.2	22.3	70	8.2	9.0	8.3	30.1	25	8.2	7.9
	6.1	28.1	80	8.3	8.6	-	-	-	-	-
12	5.0	22.1	98	8.4	8.8	1.1	29.5	77	8.5	8.0
	3.3	28.8	105	8.5	8.6	0.5	26.5	-	8.7	8.5
13	0	22.9	184	8.1	4.5	0.6	29.0	410	8.1	7.0
	1.1	28.8	170	8.3	8.0	1.7	26.7	-	8.5	8.0
14	0	23.8	69	7.9	6.4	0	29.5	78	8.1	7.0
	0.6	28.9	115	8.4	8.5	0.3	26.5	-	8.4	9.0
August 1970						September 1970				
1	8.9	28.1	60	8.4	6.9	8.6	28.1	49	8.3	6.6
	8.9	28.9	30	8.3	6.1					
2	10.0	28.7	55	8.2	7.0	13.9	28.3	23	8.3	6.7
	11.1	29.3	55	8.3	6.8					
3	5.6	28.9	48	8.5	7.0	14.7	28.2	24	8.4	7.1
	10.6	29.2	40	8.3	6.6					
4	12.2	29.5	40	8.3	7.1	20.4	28.2	18	8.4	6.8
	12.2	29.8	40	8.3	5.6					
5	20.0	29.7	25	8.3	7.4	27.9	28.7	7	8.5	7.3
	15.0	30.4	15	8.4	6.9					
6	22.2	29.8	20	8.4	7.7	26.1	28.8	9	8.4	7.4
	21.1	29.9	20	8.4	7.1					
7	16.7	29.7	40	8.3	7.2	20.1	28.5	8	8.4	7.1
	17.2	29.8	20	8.3	6.5					
8	15.5	29.8	40	8.4	7.3	18.7	28.7	17	8.5	7.2
	15.0	29.6	35	8.4	6.9					
9	13.9	29.9	35	8.3	7.5	20.4	28.7	7	8.4	7.4
	18.3	29.9	15	8.4	7.3					
10	10.0	29.8	40	8.4	8.0	14.4	28.4	21	8.4	7.3
	18.3	30.5	10	8.4	7.0					
11	10.0	30.0	40	8.3	7.5	15.6	28.7	13	8.3	7.2
	11.1	30.4	20	8.4	7.0					
12	8.5	29.2	68	8.5	8.0	13.3	28.8	11	8.4	7.6
	6.7	30.4	35	8.5	7.5					
13	1.7	29.2	230	8.5	7.0	6.7	29.1	54	8.5	7.4
	3.3	30.0	58	8.5	7.1					
14	1.1	29.1	39	8.8	7.5	3.2	29.2	34	8.6	6.9
	1.1	30.7	54	8.6	6.9					

Table 22 cont.

October 1970						November 1970				
<u>Station</u>	<u>Sal.</u>	<u>W.Temp.</u>	<u>Turb.</u>	<u>pH</u>	<u>D.O.</u>	<u>Sal.</u>	<u>W.Temp.</u>	<u>Turb.</u>	<u>pH</u>	<u>D.O.</u>
1	14.2	22.5	17	8.2	6.8	15.0	12.8	18	8.3	9.7
2	17.9	22.8	9	8.3	7.7	17.8	14.2	27	8.2	9.4
3	22.6	22.6	8	8.3	8.4	20.0	13.1	17	8.5	9.8
4	24.0	24.6	11	8.2	8.0	20.5	12.7	35	8.2	10.2
5	25.5	23.2	4	8.3	8.3	25.5	13.1	13	8.2	10.1
6	27.2	22.6	5	8.2	8.5	27.2	13.7	8	8.2	9.6
7	26.7	23.1	8	8.2	8.2	25.8	13.2	14	8.2	9.8
8	20.3	22.4	9	8.3	8.7	20.8	13.8	43	8.2	10.0
9	19.6	23.3	8	8.2	8.4	21.1	14.0	10	8.2	9.7
10	16.2	23.6	9	8.3	8.6	18.6	14.5	21	8.3	9.6
11	9.9	23.9	9	8.3	8.7	9.7	13.9	22	8.5	10.1
12	14.7	24.0	6	8.3	8.7	16.9	14.4	31	8.6	9.7
13	8.2	24.5	18	8.5	9.3	9.2	12.8	228	8.4	9.7
14	5.3	24.1	43	8.4	7.9	0.6	12.4	265	8.4	9.7

December 1970

1	18.5	17.0	32	8.2	8.8
2	19.0	17.0	5	8.1	8.8
3	19.0	16.6	23	9.2	8.1
4	22.6	17.2	7	8.1	8.5
5	28.0	17.6	3	8.1	8.4
6	30.0	16.8	3	8.1	8.5
7	26.9	17.6	2	8.2	8.8
8	21.7	14.8	3	8.2	8.4
9	19.9	17.3	3	8.3	8.6
10	18.1	16.5	6	8.3	8.4
11	15.1	17.0	7	8.3	8.4
12	15.3	17.2	9	8.2	6.7
13	9.9	17.2	46	8.3	8.6
14	4.5	17.6	46	8.4	8.2

Table 23 Hydrographic Data for Matagorda Bay

January 1970

<u>Station</u>	<u>Sal.</u>	<u>W.Temp.</u>	<u>Turb.</u>	<u>pH</u>	<u>Sur. D. O.</u>	<u>Bot. D. O.</u>
Wells Point	21.1	17.1	20	8.4	10.0	-
XA2	22.2	16.8	25	7.6	9.0	-
Lavaca 60	21.1	15.5	5	8.3	-	10.0
Basin 88	16.7	17.1	15	8.4	-	7.0
Lavaca 47	22.2	15.5	5	8.2	-	9.0
Lavaca 35	25.5	14.5	20	8.4	-	9.0
Buoy 68	27.8	14.3	25	8.2	10.0	-
Range D	27.8	14.5	1	8.5	-	8.0
Middle #2	26.6	14.3	10	7.8	8.0	-
Piling #3	25.5	14.5	5	7.8	10.0	-
Beacon 40	-	-	-	-	-	-
Cox Bay	18.9	17.0	30	8.3	9.0	-
Watermelon Mott	24.4	14.0	20	8.2	10.0	-
Mad Island	17.8	12.5	30	8.2	10.0	-
Palacios Point	22.2	16.3	25	8.0	10.0	-
Fence Post	21.1	17.7	40	8.6	10.0	-

February 1970

Wells Point	23.3	14.5	20	8.0	8.0	-
XA2	24.4	15.0	30	7.9	8.0	-
Lavaca 60	22.2	14.8	55	8.5	-	7.0
Basin 88	23.9	14.5	20	8.4	-	6.0
Lavaca 47	23.3	15.0	45	8.4	-	6.0
Lavaca 35	25.5	15.0	15	8.1	-	7.0
Buoy 68	27.8	14.5	40	8.4	8.0	-
Range D	27.8	14.0	20	8.4	-	6.0
Middle 2	25.5	14.3	65	8.5	7.0	-
Piling 3	22.2	14.0	30	7.8	8.0	-
Beacon 40	22.2	14.0	30	8.4	9.0	-
Cox Bay	22.2	15.5	50	8.4	9.0	-
Watermelon Mott	23.3	14.0	35	8.0	7.0	-
Mad Island	21.1	13.5	30	8.3	8.0	-
Palacios Point	21.1	13.5	30	8.3	8.0	-
Fence Post	21.7	13.5	125	8.5	8.0	-

Table 23 cont.

March 1970

<u>Station</u>	<u>Sal.</u>	<u>W.Temp.</u>	<u>Turb.</u>	<u>pH</u>	<u>Sur. D. O.</u>	<u>Bot. D. O.</u>
Wells Point	18.3	16.0	20	8.0	10.0	-
XA2	21.0	16.0	10	7.9	9.0	-
Lavaca 60	14.4	15.5	20	8.4	-	7.0
Basin 88	11.6	15.5	20	8.4	-	5.0
Lavaca 47	16.6	15.0	40	8.5	-	7.0
Lavaca 35	17.2	15.0	20	8.4	-	8.0
Buoy 68	24.4	15.5	30	8.4	9.0	-
Range D	22.7	15.5	15	8.5	-	9.0
Middle 2	21.0	16.0	20	8.2	9.0	-
Piling 3	18.8	16.0	20	8.2	8.0	-
Beacon 40	17.7	16.0	10	7.9	10.0	-
Cox Bay	16.1	16.0	30	8.4	10.0	-
Watermelon Mott	9.9	15.5	25	8.5	9.0	-
Mad Island	8.8	17.0	30	7.9	10.0	-
Palacios Point	12.2	18.0	20	7.9	10.0	-
Fence Post	15.5	18.0	30	8.2	8.0	-

April 1970

Wells Point	12.2	26.0	170	8.5	8.0	-
XA2	16.6	25.5	70	8.3	6.0	-
Lavaca 60	13.3	20.0	20	8.5	-	6.0
Basin 88	18.9	21.5	20	8.4	-	5.0
Lavaca 47	17.8	21.0	40	8.5	-	5.0
Lavaca 35	17.2	21.0	30	8.4	-	8.0
Buoy 68	20.5	21.4	30	8.2	8.0	-
Range D	21.1	22.5	10	8.5	-	8.0
Middle 2	19.4	25.0	30	6.7	7.0	-
Piling 3	21.6	26.0	50	8.5	8.0	-
Beacon 40	21.0	26.5	200	8.2	5.0	-
Cox Bay	16.1	20.2	30	8.4	9.0	-
Watermelon Mott	22.2	25.5	50	8.6	7.0	-
Mad Island	4.4	25.5	120	8.0	8.0	-
Palacios Point	17.2	26.0	20	8.0	7.0	-
Fence Post	9.9	25.8	190	8.3	7.0	-

Table 23 cont.

May 1970

<u>Station</u>	<u>Sal.</u>	<u>W.Temp.</u>	<u>Turb.</u>	<u>pH</u>	<u>Sur. D. O.</u>	<u>Bot. D. O.</u>
Wells Point	11.1	24.6	15	7.3	7.0	-
XA2	12.2	25.7	20	8.2	8.0	-
Lavaca 60	13.3	25.0	25	8.4	-	6.0
Basin 88	6.6	25.7	35	8.3	-	6.0
Lavaca 47	16.6	26.0	25	8.4	0	6.0
Lavaca 35	18.8	26.0	10	8.4	-	6.0
Buoy 68	22.2	26.2	15	7.8	7.0	-
Range D	21.6	26.0	0	8.4	-	8.0
Middle 2	21.0	26.5	25	7.6	9.0	-
Piling 3	19.9	27.0	15	8.3	8.0	-
Beacon 40	17.7	24.5	40	8.3	5.0	-
Cox Bay	15.5	26.0	45	8.0	7.0	-
Watermelon Mott	17.7	25.5	30	8.6	8.0	-
Mad Island	6.6	26.0	60	8.3	8.0	-
Palacios Point	15.5	25.0	85	8.3	5.0	-
Fence Post	15.5	24.0	25	8.4	7.0	-

June 1970

Wells Point	7.2	28.0	20	8.1	7.0	-
XA2	11.1	28.0	35	8.5	7.0	-
Lavaca 60	11.1	29.5	-	8.5	-	4.0
Basin 88	7.2	29.5	-	8.5	-	2.0
Lavaca 47	11.1	28.5	15	8.4	-	6.0
Lavaca 35	13.3	28.0	10	8.4	-	6.0
Buoy 68	22.2	28.3	20	8.4	6.0	-
Range D	24.9	28.7	10	8.4	-	7.0
Middle 2	18.9	29.6	10	8.4	8.0	-
Piling 3	18.9	28.8	15	8.3	8.0	-
Beacon 40	7.8	29.3	25	8.2	7.0	-
Cox Bay	9.9	29.5	-	8.4	6.0	-
Watermelon Mott	19.4	28.8	20	8.0	8.0	-
Mad Island	12.2	29.0	45	7.8	8.0	-
Palacios Point	7.2	29.5	60	8.5	7.0	-
Fence Post	0	28.3	65	7.6	8.0	-

Table 23 cont.

July 1970

<u>Station</u>	<u>Sal.</u>	<u>W.Temp.</u>	<u>Turb.</u>	<u>pH</u>	<u>Sur. D. O.</u>	<u>Bot. D. O.</u>
Wells Point	21.7	30.0	25	8.2	7.0	-
XA2	17.2	29.0	5	8.2	8.0	-
Lavaca 60	17.2	29.0	7	8.3	-	5.0
Basin 88	13.9	29.0	3	8.3	-	5.0
Lavaca 47	22.2	29.0	10	8.3	-	5.0
Lavaca 35	28.9	29.5	4	8.3	-	6.0
Buoy 68	32.6	29.0	0	8.2	5.0	-
Range D	33.3	29.5	3	8.3	-	5.0
Middle 2	28.9	30.0	4	8.3	8.0	-
Piling 3	27.8	30.0	0	8.1	5.0	-
Beacon 40	22.2	30.0	20	8.4	6.0	-
Cox Bay	16.7	28.5	10	8.0	8.0	-
Watermelon Mott	26.6	30.0	5	8.3	7.0	-
Mad Island	18.3	30.0	62	8.2	7.0	-
Palacios Point	19.4	30.0	25	8.2	7.0	-
Fence Post	-	-	-	-	-	-

August 1970

Wells Point	20.5	28.0	0	7.7	7.0	-
XA2	23.8	30.0	10	7.8	7.0	-
Lavaca 60	19.4	31.0	10	8.4	-	4.0
Basin 88	11.6	29.0	20	8.3	-	6.0
Lavaca 47	21.9	29.0	10	8.4	-	6.0
Lavaca 35	23.8	30.1	20	8.6	-	5.0
Buoy 68	32.1	29.0	10	8.5	7.0	-
Range D	30.5	29.5	10	8.6	-	6.0
Middle 2	28.8	29.5	10	8.5	6.0	-
Piling 3	26.6	29.5	10	8.5	7.0	-
Beacon 40	-	-	-	-	-	-
Cox Bay	17.7	30.0	35	8.4	6.0	-
Watermelon Mott	26.1	29.5	120	8.5	5.0	-
Mad Island	23.8	28.0	25	8.6	6.0	-
Palacios Point	23.3	29.0	90	8.6	5.0	-
Fence Post	16.1	28.5	150	8.4	6.0	-

Table 23 cont.

September 1970

<u>Station</u>	<u>Sal.</u>	<u>W.Temp.</u>	<u>Turb.</u>	<u>pH</u>	<u>Sur. D. O.</u>	<u>Bot. D. O.</u>
Wells Point	-	-	-	-	-	-
XA2	21.1	27.3	15	8.1	7.0	-
Lavaca 60	15.5	26.0	0	8.1	-	7.0
Basin 88	22.2	28.0	0	7.9	-	3.0
Lavaca 47	15.5	27.0	0	8.1	-	6.0
Lavaca 35	15.5	27.0	0	8.2	-	7.0
Buoy 68	21.0	26.0	0	8.2	-	-
Range D	19.9	28.0	0	8.2	-	6.0
Middle 2	24.4	27.4	0	8.1	8.0	-
Piling 3	26.6	27.5	0	8.2	7.0	-
Beacon 40	23.3	27.0	0	8.2	7.0	-
Cox Bay	11.1	27.2	0	7.8	7.0	-
Watermelon Mott	26.6	27.0	5	8.1	7.0	-
Mad Island	24.4	27.0	40	8.1	7.0	-
Palacios Point	23.3	26.0	25	8.2	7.0	-
Fence Post	16.6	26.5	5	8.1	8.0	-

October 1970

Wells Point	17.2	21.5	10	8.2	8.0	-
XA2	19.9	20.5	15	8.0	9.0	-
Lavaca 60	7.8	20.3	15	8.3	-	7.0
Basin 88	11.1	21.5	15	8.2	-	5.0
Lavaca 47	13.3	20.0	20	8.2	-	7.0
Lavaca 35	12.2	20.0	20	8.3	-	7.0
Buoy 68	12.2	20.5	20	8.3	8.0	-
Range D	21.1	21.0	15	8.1	-	6.0
Middle 2	20.1	21.0	20	8.2	8.0	-
Piling 3	19.4	21.0	10	8.2	8.0	-
Beacon 40	16.7	21.0	5	8.1	7.0	-
Cox Bay	11.1	27.2	0	7.8	7.0	-
Watermelon Mott	26.6	27.0	5	8.1	7.0	-
Mad Island	24.4	27.0	40	8.1	7.0	-
Palacios Point	23.3	26.0	25	8.2	7.0	-
Fence Post	16.6	26.5	5	8.1	8.0	-

Table 23 cont.

November 1970

<u>Station</u>	<u>Sal.</u>	<u>W.Temp.</u>	<u>Turb.</u>	<u>pH</u>	<u>Sur. D. O.</u>	<u>Bot. D. O.</u>
Wells Point	17.1	21.0	20	8.5	8.0	-
XA2	16.6	19.0	10	8.5	9.0	-
Lavaca 60	17.2	19.0	15	8.4	-	6.0
Basin 88	18.9	18.0	0	8.5	-	5.0
Lavaca 47	18.9	19.0	20	8.5	-	6.0
Lavaca 35	21.1	19.0	0	8.5	-	5.0
Buoy 68	23.3	19.0	10	8.5	-	-
Range D	24.9	20.0	10	8.6	-	6.0
Middle D	22.2	19.5	0	8.5	7.0	-
Piling 3	21.1	19.0	10	8.5	8.0	-
Beacon 40	17.8	19.0	10	8.5	9.0	-
Cox's Bay	16.6	20.8	10	8.3	8.0	-
Watermelon Mott	16.6	19.0	15	8.5	7.0	-
Mad Island	12.2	19.0	20	8.4	9.0	-
Palacios Point	17.8	19.0	10	8.4	9.0	-
Fence Post	21.1	20.0	10	8.3	8.0	-

December 1970

Wells Point	23.3	15.0	10	8.5	8.2	-
XA2	-	-	-	-	-	-
Lavaca 60	21.1	13.0	5	8.4	11.2	10.6
Basin 88	21.7	14.0	10	8.4	11.2	9.0
Lavaca 47	23.2	15.0	80	8.4	11.1	10.0
Lavaca 35	23.9	14.0	5	8.4	10.8	10.4
Buoy 68	24.9	14.0	10	8.5	10.8	-
Range D	24.9	14.5	0	8.5	10.6	10.6
Middle 2	24.4	14.5	5	8.2	10.6	-
Piling 3	24.9	14.5	10	8.3	10.6	-
Beacon 40	22.8	14.5	0	8.6	10.8	-
Cox's Bay	23.3	14.0	5	8.5	11.8	-
Watermelon Mott	25.5	14.0	5	8.5	11.6	-
Mad Island	23.3	15.0	20	8.4	11.2	-
Palacios Point	23.3	15.0	5	8.3	11.4	-
Fence Post	21.1	14.5	10	6.8	9.0	-

Table 24 Hydrographic Data for Galveston Bay

January 1970

<u>Station</u>	<u>Sal.</u>	<u>W.Temp.</u>	<u>Turb.</u>	<u>pH</u>	<u>Sur. D.O.</u>	<u>Bot. D.O.</u>
1	22.2	13.5	26	8.4	13.0	12.0
2	19.9	14.0	32	8.4	-	-
3	19.9	14.0	32	8.5	10.0	10.0
4	17.8	16.8	75	8.4	-	-
5	23.3	13.0	82	8.0	10.0	11.0
6	22.2	13.5	32	8.1	-	-
7	22.2	14.0	20	8.2	-	-
8	23.9	14.0	42	8.4	-	-
9	25.5	13.0	22	8.4	-	-
10	27.8	13.0	20	8.1	11.0	11.0
11	27.8	12.0	22	8.2	-	-
12	-	-	-	-	-	-
13	-	-	-	-	-	-
14	23.3	13.0	36	8.6	12.0	11.0
15	22.2	15.5	49	8.6	-	-
16	27.2	12.5	164	8.0	-	-
17	22.2	13.0	68	8.3	-	-
18	-	-	-	-	-	-
19	21.1	13.0	56	8.2	9.0	9.0
20	19.9	14.0	73	8.3	11.0	10.0
21	19.9	13.0	42	8.3	-	-
22	19.9	14.0	42	7.8	-	-
23	18.9	13.0	300	7.5	11.0	8.0
24	16.7	13.0	56	7.5	-	-
25	15.5	13.0	32	8.2	10.0	9.0
26	11.1	13.0	65	8.4	-	-
27	9.4	13.0	112	8.5	11.0	10.0
28	13.9	13.0	90	8.7	-	-
29	16.7	12.5	92	8.7	-	-
30	-	-	-	-	-	-
31	17.8	13.0	68	8.6	-	-
32	17.8	12.0	106	8.5	9.0	10.0
33	-	-	-	-	-	-
38	4.4	11.0	-	-	-	-

February 1970

1	21.1	14.0	200	8.0	9.0	10.0
2	21.1	14.5	64	7.8	-	-
3	21.1	15.0	90	8.0	9.0	9.0
4	19.4	12.0	86	7.9	-	-
5	24.4	14.0	184	7.8	8.0	6.0
6	21.7	15.0	101	7.8	-	-
7	24.9	14.5	101	7.8	-	-
8	22.2	15.0	86	7.9	-	-

Table 24 cont.

February 1970

<u>Station</u>	<u>Sal.</u>	<u>W.Temp.</u>	<u>Turb.</u>	<u>pH</u>	<u>Sur. D.O.</u>	<u>Bot. D.O.</u>
9	19.9	13.5	120	8.0	-	-
10	28.3	13.5	65	8.1	9.0	8.0
11	23.3	14.0	168	8.1	-	-
12	-	-	-	-	-	-
13	-	-	-	-	-	-
14	21.7	14.0	75	8.4	9.0	8.0
15	21.7	14.0	168	8.4	-	-
16	22.2	14.0	39	8.4	-	-
17	21.7	14.0	54	8.4	7.0	10.0
18	21.1	14.0	47	8.6	-	-
19	21.1	14.0	56	8.3	8.0	8.0
20	19.9	14.0	54	8.5	7.0	7.0
21	19.9	14.0	44	8.4	-	-
22	19.9	14.0	51	7.9	-	-
23	17.8	14.0	68	8.1	9.0	7.0
24	15.5	14.0	104	8.8	-	-
25	12.8	14.0	95	8.8	8.0	9.0
26	9.4	14.0	84	9.1	-	-
27	7.8	14.0	73	8.9	8.0	9.0
28	11.1	14.0	80	9.0	-	-
29	14.4	14.0	47	8.9	-	-
30	16.7	14.0	51	8.7	9.0	8.0
31	16.7	14.0	42	8.7	-	-
32	17.2	14.0	54	8.7	8.0	9.0
33	19.9	14.0	64	8.5	-	-
38	16.7	18.0	-	-	-	-

March 1970

1	-	-	-	-	-	-
2	-	-	-	-	-	-
3	-	-	-	-	-	-
4	-	-	-	-	-	-
5	-	-	-	-	-	-
6	-	-	-	-	-	-
7	-	-	-	-	-	-
8	-	-	-	-	-	-
9	-	-	-	-	-	-
10	-	-	-	-	-	-
11	-	-	-	-	-	-
12	13.3	15.0	54	7.8	-	-
13	12.2	15.0	75	7.8	-	-
14	-	-	-	-	-	-
15	-	-	-	-	-	-

Table 24 cont.

March 1970						
<u>Station</u>	<u>Sal.</u>	<u>W.Temp.</u>	<u>Turb.</u>	<u>pH</u>	<u>Sur. D.O.</u>	<u>Bot. D.O.</u>
16	9.9	15.0	106	8.0	-	-
17	13.9	15.0	95	7.6	-	-
18	11.7	15.0	68	8.4	-	-
19	19.9	14.0	114	7.9	8.0	7.0
20	14.4	15.0	95	7.9	8.0	8.0
21	14.9	14.0	61	7.8	-	-
22	11.1	14.0	95	7.6	-	-
23	9.4	14.0	86	7.5	8.0	6.0
24	9.4	14.0	134	7.5	-	-
25	4.4	14.0	134	7.6	9.0	8.0
26	0.6	14.0	195	7.7	-	-
27	0	14.0	240	7.7	11.0	10.0
28	0	14.0	250	7.8	-	-
29	0	14.0	360	7.8	-	-
30	2.8	15.0	128	7.6	7.0	9.0
31	1.1	15.0	280	7.7	-	-
32	2.2	15.0	222	7.7	10.0	9.0
33	3.3	15.0	175	7.7	-	-
38	-	-	-	-	-	-
39	24.9	16.0	47	7.8	10.0	-
41	19.9	15.0	30	8.0	9.0	-
42	23.9	16.0	39	7.5	9.0	-

April 1970						
1	10.5	17.0	197	7.7	10.0	8.0
2	13.3	18.0	47	7.9	-	-
3	12.2	18.0	49	8.1	12.0	10.0
4	12.2	15.5	56	7.8	-	-
5	13.9	18.0	75	7.9	8.0	7.0
6	18.9	19.0	73	7.8	-	-
7	18.9	18.0	51	7.8	-	-
8	11.1	19.0	54	8.1	-	-
9	8.3	20.0	42	8.2	-	-
10	23.9	18.0	49	8.1	7.0	7.0
11	14.9	20.0	73	8.0	-	-
12	23.3	23.0	30	7.7	-	-
13	19.9	23.0	59	7.5	-	-
14	14.4	19.0	47	8.1	6.0	9.0
15	14.4	20.0	42	8.2	-	-
16	19.9	23.0	68	7.3	-	-
17	13.9	22.5	51	7.3	6.0	6.0
18	15.5	23.0	32	7.2	-	-
19	18.3	23.0	16	7.4	6.0	5.0
20	12.8	23.5	88	7.3	8.0	7.0
21	10.5	23.5	30	7.4	-	-
22	8.9	23.0	137	7.3	-	-

Table 24 cont.

April 1970

<u>Station</u>	<u>Sal.</u>	<u>W.Temp.</u>	<u>Turb.</u>	<u>pH</u>	<u>Sur. D.O.</u>	<u>Bot. D.O.</u>
23	7.2	23.0	280	7.2	9.0	5.0
24	6.1	24.0	59	7.3	-	-
25	2.2	23.0	310	7.6	7.0	7.0
26	0.6	23.5	222	7.7	-	-
27	1.1	23.0	258	7.7	9.0	8.0
28	2.2	23.0	245	7.8	-	-
29	3.3	23.0	114	7.6	-	-
30	6.7	22.5	68	7.5	8.0	8.0
31	5.6	23.0	200	7.4	-	-
32	-	-	-	-	-	-
33	18.9	23.0	97	7.3	-	-
39	-	-	-	-	-	-
41	-	-	-	-	-	-
42	-	-	-	-	-	-

May 1970

1	13.3	22.5	73	8.3	10.0	9.0
2	13.3	22.0	54	8.4	-	-
3	13.3	22.5	95	8.4	8.0	7.0
4	8.9	22.5	39	8.2	-	-
5	17.7	22.5	71	8.3	8.0	8.0
6	13.9	22.5	120	7.7	-	-
7	13.9	22.5	200	7.8	-	-
8	12.8	22.5	80	8.3	-	-
9	12.8	22.5	228	8.2	-	-
10	21.7	23.0	81	8.3	8.0	8.0
11	14.4	22.5	147	8.4	-	-
12	13.3	23.0	-	7.7	-	-
13	12.8	23.0	-	7.7	-	-
14	13.9	22.5	80	8.4	9.0	9.0
15	14.9	22.5	131	8.5	-	-
16	11.1	23.0	-	7.8	-	-
17	11.1	23.0	-	7.6	5.0	6.0
18	11.1	23.0	-	7.6	-	-
19	10.5	21.0	-	6.8	5.0	6.0
20	9.9	22.0	-	7.0	7.0	5.0
21	10.5	21.0	-	7.3	-	-
22	8.3	21.0	-	7.1	-	-
23	6.1	21.0	-	7.0	3.0	3.0
24	6.7	21.0	-	7.1	-	-
25	6.7	21.0	-	7.5	6.0	6.0
26	4.4	21.0	-	8.0	-	-
27	1.1	23.0	-	8.1	11.0	10.0
28	1.7	23.0	-	8.3	-	-

Table 24 cont.

May 1970

<u>Station</u>	<u>Sal.</u>	<u>W.Temp.</u>	<u>Turb.</u>	<u>pH</u>	<u>Sur. D.O.</u>	<u>Bot. D.O.</u>
29	2.8	23.0	-	8.3	-	-
30	5.6	23.0	-	7.6	11.0	9.0
31	4.4	23.0	-	7.9	-	-
32	4.4	23.0	-	7.8	12.0	10.0
33	5.6	23.0	-	7.8	-	-
38	-	-	-	-	-	-
39	21.1	24.0	12	8.3	8.0	-
41	23.3	23.0	92	8.4	7.0	-
42	21.7	21.0	56	8.1	6.0	-

June 1970

1	18.3	24.0	56	8.1	7.0	6.0
2	16.1	24.0	39	8.1	-	-
3	13.3	24.0	211	8.2	7.0	5.0
4	9.9	24.0	68	8.0	-	-
5	26.1	25.0	47	8.3	7.0	7.0
6	18.3	25.5	61	8.1	-	-
7	20.5	25.0	88	8.0	-	-
8	21.7	25.0	54	8.4	-	-
9	27.2	24.5	64	8.4	-	-
10	31.6	24.0	8	8.3	7.0	7.0
11	24.0	24.0	32	8.3	-	-
12	30.0	30.0	4	8.4	7.0	5.0
13	30.0	30.0	32	8.4	-	-
14	25.0	25.0	68	8.4	7.0	6.0
15	24.5	24.5	61	8.4	-	-
16	30.0	30.0	44	8.6	-	-
17	30.0	30.0	49	8.5	7.0	6.0
18	30.0	30.0	65	8.6	-	-
19	29.0	29.0	44	8.6	8.0	6.0
20	29.0	29.0	47	8.7	9.0	5.0
21	29.0	29.0	42	8.5	-	-
22	30.0	30.0	47	8.5	-	-
23	30.0	30.0	84	8.8	7.0	5.0
24	30.0	30.0	68	8.8	-	-
25	30.0	30.0	51	8.7	7.0	6.0
26	30.0	30.0	47	8.8	-	-
27	29.0	29.0	77	8.5	7.0	6.0
28	29.0	29.0	71	8.3	-	-
29	29.0	29.0	65	8.3	7.0	6.0
30	29.0	29.0	68	8.3	-	-
31	29.0	29.0	71	8.5	-	-
32	29.0	29.0	51	8.3	8.0	-
33	29.0	29.0	80	8.3	-	-
38	-	-	-	-	-	-

Table 24 cont.

June 1970

<u>Station</u>	<u>Sal.</u>	<u>W.Temp.</u>	<u>Turb.</u>	<u>pH</u>	<u>Sur. D.O.</u>	<u>Bot. D.O.</u>
39	28.3	24.0	4	7.6	6.0	-
41	33.3	24.0	4	7.6	6.0	-
42	36.1	24.0	73	7.5	6.0	-

July 1970

1	21.6	28.0	125	7.4	7.0	8.0
2	15.5	29.0	90	8.0	-	-
3	14.4	29.0	245	8.0	8.0	7.0
4	12.2	29.0	61	7.7	-	-
5	28.3	30.0	80	7.8	7.0	8.0
6	17.8	29.5	92	7.8	-	-
7	22.2	29.5	95	7.9	-	-
8	26.6	29.0	65	7.9	-	-
9	33.3	29.0	104	7.9	-	-
10	34.9	30.0	75	7.9	7.0	5.0
11	33.3	29.0	36	7.9	-	-
12	32.2	28.0	42	7.9	-	-
13	27.2	28.0	54	7.9	-	-
14	24.4	30.0	97	8.0	9.0	8.0
15	20.5	29.5	99	8.0	-	-
16	24.9	28.0	47	7.8	-	-
17	21.6	29.0	73	7.8	8.0	5.0
18	18.9	29.0	65	7.9	-	-
19	25.5	28.0	71	7.5	6.0	6.0
20	17.8	28.0	84	7.2	6.0	5.0
21	17.8	28.0	77	7.6	-	-
22	21.7	28.0	64	7.4	-	-
23	14.4	28.0	73	7.5	6.0	6.0
24	11.0	28.0	71	7.5	-	-
25	9.4	29.0	47	7.5	6.0	6.0
26	5.6	29.0	64	7.5	-	-
27	4.4	28.0	56	7.6	8.0	4.0
28	6.1	28.0	65	7.9	-	-
29	9.9	28.0	59	7.7	-	-
30	12.2	28.0	88	7.6	9.0	7.0
31	11.1	28.0	54	7.6	-	-
32	16.1	28.0	75	7.7	6.0	7.0
33	23.3	28.0	56	7.5	-	-
38	-	-	-	-	-	-
39	38.7	24.0	42	7.9	6.0	-
41	32.7	24.5	72	8.1	7.0	-
42	31.6	24.5	42	8.1	7.0	-

Table 24 cont.

August 1970

<u>Station</u>	<u>Sal.</u>	<u>W.Temp.</u>	<u>Turb.</u>	<u>pH</u>	<u>Sur. D.O.</u>	<u>Bot. D.O.</u>
1	20.5	27.0	258	8.1	7.0	5.0
2	19.9	27.0	73	8.3	-	-
3	18.3	27.0	200	8.2	6.0	6.0
4	18.3	26.5	88	8.3	-	-
5	23.3	27.5	77	8.2	6.0	5.0
6	26.7	26.5	68	8.1	-	-
7	23.3	27.0	59	8.1	-	-
8	25.5	28.0	206	8.1	-	-
9	26.1	27.0	131	8.1	-	-
10	35.5	28.0	80	8.1	7.0	6.0
11	37.2	28.0	65	8.2	-	-
12	33.3	28.0	47	8.1	-	-
13	33.3	27.5	68	8.1	-	-
14	26.6	28.0	128	8.4	6.0	4.0
15	25.5	29.0	168	8.3	-	-
16	33.3	27.5	22	8.1	-	-
17	23.9	28.5	56	8.3	10.0	4.0
18	30.5	28.0	22	8.2	-	-
19	27.8	28.0	86	8.2	-	-
20	20.0	28.0	258	8.3	12.0	4.0
21	26.1	27.5	54	8.2	-	-
22	22.8	27.5	-	-	-	-
23	16.1	28.0	56	8.2	5.0	4.0
24	16.7	27.5	59	8.5	-	-
25	16.1	28.0	206	8.3	6.0	5.0
26	6.7	27.5	81	8.3	-	-
27	10.0	28.0	101	8.2	7.0	5.0
28	12.8	27.0	233	8.1	-	-
29	16.1	27.0	90	8.2	-	-
30	18.3	28.0	81	8.3	8.0	6.0
31	18.3	28.0	71	8.3	-	-
32	18.3	28.0	101	8.3	6.0	6.0
33	26.1	28.0	112	8.2	-	-
38	-	-	-	-	-	-
39	33.3	29.0	80	8.0	6.0	-
41	29.9	29.0	32	7.7	6.0	-
42	32.2	30.0	30	7.8	6.0	-

Table 24 cont.

September 1970

<u>Station</u>	<u>Sal.</u>	<u>W.Temp.</u>	<u>Turb.</u>	<u>pH</u>	<u>Sur. D.O.</u>	<u>Bot. D.O.</u>
1	23.3	29.0	56	7.6	6.0	3.0
2	21.3	28.5	42	7.9	-	-
3	20.5	29.0	42	8.0	6.0	5.0
4	14.4	28.5	101	7.6	-	-
5	21.7	28.5	59	7.8	6.0	5.0
6	21.7	29.0	42	7.9	-	-
7	22.8	29.0	71	7.9	-	-
8	24.4	29.0	68	8.1	-	-
9	25.5	29.0	75	8.0	-	-
10	25.5	29.0	56	7.9	6.0	4.0
11	26.6	29.5	51	8.2	-	-
12	23.3	27.0	51	8.1	-	-
13	22.2	27.0	54	7.9	-	-
14	24.4	30.0	160	8.3	6.0	7.0
15	22.8	30.0	-	-	-	-
16	21.0	27.0	42	7.9	-	-
17	18.0	27.0	54	7.8	5.0	4.0
18	18.8	27.0	54	7.7	-	-
19	19.4	27.0	61	7.8	3.0	4.0
20	17.2	27.0	59	7.8	7.0	5.0
21	17.7	27.0	75	7.8	-	-
22	14.4	27.0	71	7.6	-	-
23	15.5	27.0	84	7.7	6.0	3.0
24	18.8	27.0	61	7.7	-	-
25	16.6	28.0	104	8.1	6.0	5.0
26	11.1	27.0	54	8.1	-	-
27	9.9	27.0	80	7.8	6.0	6.0
28	14.4	27.0	73	8.0	-	-
29	15.5	27.0	65	8.0	-	-
30	17.2	27.0	75	8.0	5.0	3.0
31	15.5	-	86	8.0	-	-
32	16.1	27.0	80	8.0	6.0	6.0
33	18.3	27.0	81	7.8	-	-
38	19.9	28.0	71	7.9	6.6	-
39	17.7	26.0	81	7.8	6.0	-
41	28.3	27.0	90	7.7	5.0	-
42	23.3	26.0	47	7.9	6.0	-

Table 24 cont.

October 1970						
<u>Station</u>	<u>Sal.</u>	<u>W.Temp.</u>	<u>Turb.</u>	<u>pH</u>	<u>Sur. D.O.</u>	<u>Bot. D.O.</u>
1	18.9	20.0	200	8.0	8.0	7.0
2	17.2	19.5	84	8.0	-	-
3	16.7	19.5	245	8.1	8.0	7.0
4	14.9	22.0	95	8.0	-	-
5	13.9	22.0	101	7.7	5.0	5.0
6	17.2	21.0	84	7.6	-	-
7	16.7	21.0	77	7.6	-	-
8	19.9	21.0	75	7.8	-	-
9	20.5	21.0	217	8.1	-	-
10	21.7	22.0	73	8.0	7.0	6.0
11	19.4	21.0	88	8.0	-	-
12	20.5	21.0	49	8.2	-	-
13	19.4	21.0	59	8.2	-	-
14	17.8	22.0	117	8.0	7.0	7.0
15	17.2	21.0	134	8.0	-	-
16	13.3	21.0	49	8.1	-	-
17	18.3	21.0	61	8.2	6.0	-
18	17.7	21.0	56	8.3	-	-
19	17.7	20.0	54	8.2	8.0	5.0
20	14.9	20.0	56	8.0	7.0	4.0
21	16.1	20.0	56	7.9	-	-
22	14.4	20.0	64	7.6	-	-
23	13.8	21.0	92	7.7	5.0	-
24	14.4	20.0	68	7.7	-	-
25	15.5	20.0	99	7.9	7.0	7.0
26	14.4	21.0	65	8.1	-	-
27	13.8	21.0	61	8.4	6.0	7.0
28	12.7	21.0	59	8.3	-	-
29	13.3	21.0	54	8.3	-	-
30	16.6	21.0	80	8.2	6.0	3.0
31	14.4	21.0	56	8.4	-	-
32	14.9	21.0	80	8.3	4.0	4.0
33	15.5	21.0	59	8.3	-	-
38	7.7	23.5	150	7.3	5.6	-
39	9.4	22.0	56	7.5	6.0	-
41	21.0	22.0	51	8.1	8.0	-
42	23.3	22.0	75	8.0	8.0	-

Table 24 cont.

November 1970

<u>Station</u>	<u>Sal.</u>	<u>W.Temp.</u>	<u>Turb.</u>	<u>pH</u>	<u>Sur. D.O.</u>	<u>Bot. D.O.</u>
1	22.2	16.0	80	8.3	7.0	8.0
2	13.3	14.0	8	8.4	-	-
3	11.1	14.0	32	8.3	9.0	9.0
4	5.5	16.0	47	8.4	-	-
5	11.1	16.0	71	8.1	11.0	10.0
6	18.8	16.0	64	8.1	-	-
7	17.7	16.0	88	8.0	-	-
8	18.8	16.0	4	8.2	-	-
9	25.5	16.0	0	8.3	-	-
10	22.2	16.0	75	8.1	10.0	10.0
11	23.3	17.0	32	8.2	-	-
12	22.2	16.0	4	8.1	-	-
13	19.9	16.0	0	8.1	-	-
14	22.2	17.0	65	8.2	9.0	9.0
15	21.0	16.0	114	8.1	-	-
16	17.7	16.0	18	8.2	-	-
17	13.8	15.0	16	8.1	8.0	10.0
18	18.8	16.0	8	7.9	-	-
19	17.7	14.0	4	7.8	7.0	8.0
20	20.5	15.0	0	8.2	8.0	6.0
21	11.6	14.0	4	7.9	-	-
22	17.7	14.0	4	7.7	-	-
23	16.1	14.0	20	7.8	9.0	8.0
24	11.6	14.0	36	7.6	-	-
25	8.8	14.0	16	8.2	7.0	7.0
26	11.1	14.0	22	8.0	-	-
27	12.7	14.0	12	7.9	7.0	8.0
28	11.6	14.0	16	8.0	-	-
29	12.2	14.0	12	7.9	-	-
30	15.5	14.0	20	8.1	8.0	7.0
31	14.4	14.0	16	8.1	-	-
32	19.4	16.0	30	8.0	11.0	10.0
33	16.6	16.0	4	8.1	-	-
38	-	-	-	-	-	-
39	-	-	-	-	-	-
31	-	-	-	-	-	-
42	-	-	-	-	-	-

Table 24 cont.

December 1970

<u>Station</u>	<u>Sal.</u>	<u>W.Temp.</u>	<u>Turb.</u>	<u>pH</u>	<u>Sur. D.O.</u>	<u>Bot. D.O.</u>
1	27.7	20.0	26	-	8.0	8.0
2	19.9	20.0	56	-	-	-
3	18.8	20.0	258	-	8.0	8.0
4	17.7	21.0	125	-	-	-
5	22.2	20.0	84	-	8.0	6.0
6	21.0	19.5	117	-	-	-
7	22.2	19.5	104	-	-	-
8	27.7	20.0	26	-	-	-
9	26.0	20.0	44	-	-	-
10	24.4	19.5	30	-	7.0	8.0
11	24.4	19.5	30	-	-	-
12	22.7	13.0	56	-	-	-
13	22.2	13.0	44	-	-	-
14	22.2	19.5	44	-	8.0	7.0
15	22.7	21.0	5	-	-	-
16	22.2	13.0	44	-	-	-
17	21.0	14.0	61	-	9.0	10.0
18	19.9	14.0	65	-	-	-
19	19.9	14.0	64	-	9.0	7.0
20	19.9	13.0	73	-	8.0	6.0
21	18.8	14.0	71	-	-	-
22	19.4	14.0	71	-	-	-
23	18.3	14.0	77	-	7.0	8.0
24	16.6	13.0	75	-	-	-
25	15.5	13.0	68	-	9.0	7.0
26	11.1	13.0	64	-	-	-
27	12.2	13.0	59	-	10.0	10.0
28	14.4	13.0	75	-	-	-
29	17.2	13.0	71	-	-	-
30	17.7	13.0	112	-	10.0	9.0
31	16.6	13.0	117	-	-	-
32	16.6	13.0	120	-	-	-
33	17.7	13.0	80	-	-	-
38	17.7	20.0	39	-	8.7	-
39	27.7	16.0	20	-	8.0	-
41	27.7	16.0	71	-	8.0	-
42	27.7	13.5	59	-	9.0	-