Hydrographic Observations from a Natural Marsh and a Marsh Altered by Dredging, Bulkheading, and Filling in West Bay, Texas

EDWARD J. PULLEN and LEE TRENT

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Hydrographic Observations from a Natural Marsh and a Marsh Altered by Dredging, Bulkheading, and Filling in West Bay, Texas

EDWARD J. PULLEN2 and LEE TRENT3

ABSTRACT

Hydrographic data were collected from a natural marsh and a marsh altered by dredging, bulkheading, and filling in West Bay, Texas. Water samples were taken at 2-wk intervals during the day and night at 10 stations from 25 March to 21 October 1969. This report contains the location, depth, date, and time the samples were taken and corresponding measurements of water temperature, salinity, dissolved oxygen, dissolved organic nitrogen, nitrite, total phosphorus, inorganic phosphate-phosphorus, pH, carbon dioxide, total alkalinity, carbonate alkalinity, and turbidity.

INTRODUCTION

Numerous requests have been made in recent years by water resource planners pertaining to water quality conditions in estuarine areas altered by man. This report provides hydrographic data from a natural marsh and an area that was similar to the natural marsh prior to alteration by dredging, bulkheading, and filling. Some of these data have been reported in summary form by Corliss and Trent (1971), Moore and Trent (1971), Trent, Pullen, and Moore (1972), and Gilmore and Trent (1974).

STUDY AREA AND METHODS

The study area located in West Bay, Texas included a natural marsh area, an open bay area, and a canal area that was similar to the natural marsh before it was altered by channelization, bulkheading, and filling (Fig. 1). Ten sampling stations were established in the study area. Average water depths (mean low tide level) at Stations 1 through 10 were 1.6, 2.6, 2.2, 1.4, 1.3, 0.5, 0.2, 0.4, 0.5, and 1.0 m, respectively.

Samples of water were collected between 1000 and 1400 h and between 2200 and 0200 h at 2-wk intervals from 25 March to 21 October 1969 at each station. The samples were taken about 30 cm above the bottom with a tripie bottle sampler (Texas A & M Univ., 1959).

Water samples were processed as follows. Water temperature was measured immediately after, and turbidity and pH were determined within 2 h after the samples were collected. Salinity, dissolved organic nitrogen, nitrite, total phosphorus, and inorganic phosphate-phosphorus samples were transferred into pyrex vials and alkalinity and carbon dioxide samples were stored in polyethylene containers. Chloroform (0.5 ml), mercuric chloride (0.2 mg), or carbon disulfide (0.5 ml) was added to the nutrient samples as a preservative and the samples were later filtered, quick-frozen, and stored for later analysis. Oxygen samples were collected in 300-ml biological oxygen demand bottles. Methods of chemical analyses employed and their precisions (when determined) are listed in Table 1, and the data are listed in Tables 2-13.

LITERATURE CITED


Figure 1.—Study area and sampling locations in the Jamaica Beach area of West Bay, Texas.
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2/ Reference to trade names does not imply endorsement by the National Marine Fisheries Service.
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