1 INTRODUCTION

Pelagos Corporation conducted an offshore field data acquisition program in the vicinity of the San Diego - Coronado bridge in San Diego, California, (Figure 1) using three different suites of marine geophysical equipment as follows:

1. A very high resolution, shallow penetration, single channel system
2. A high resolution, medium penetration, multichannel system
3. An acoustic core logging system

The acquisition program was commissioned by the State of California, Department of Conservation, Division of Mines and Geology (DMG) as part of an Inter-Agency Agreement with the State of California, Department of Transportation (CALTRANS). CALTRANS provided a major portion of the funding for the project as well as some of the equipment used to collect the medium resolution profiles. DMG provided project supervision, management and interpretation of the processed data. DMG was represented by M.P. Kennedy who, in association with S.H. Clarke of the United States Geological Survey (USGS), determined the placement of survey lines in the field.

This report has been generated by Pelagos Corporation to provide a complete description of the field acquisition program, the data processing, and a record of the resulting data sets. The following of three sections complete this report:

1. DATA ACQUISITION - Provides descriptions of the equipment and methodologies used during the various phases of the acquisition program.

2. DATA PROCESSING - Provides an overview of the processing sequences used for the navigation positioning and the reflection data for all phases of the program.

3. DATA INVENTORY - Provides a listing of all the field data acquired, processed data and final plots

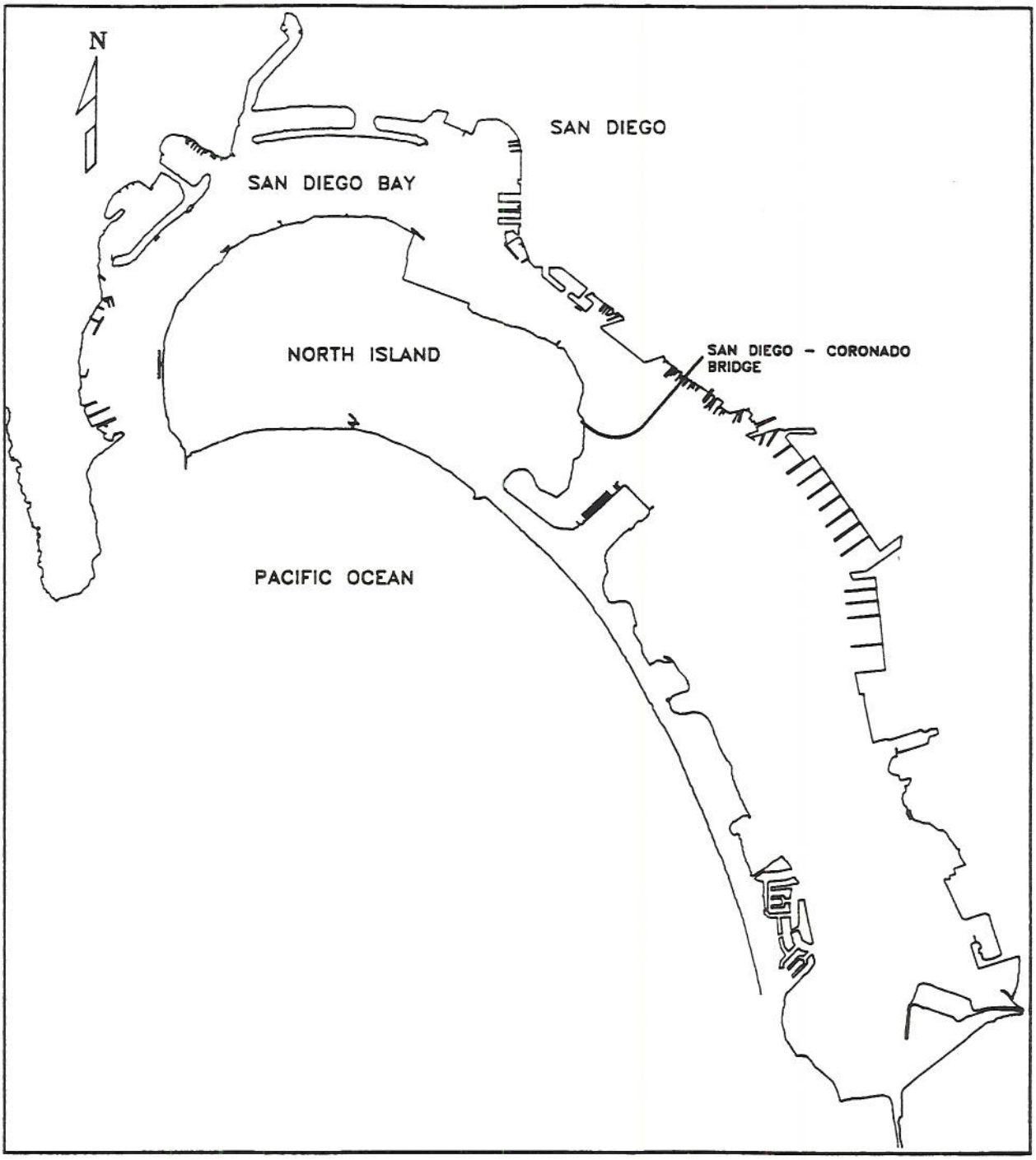

Figure 1. Location Map