



Government of South Australia

Department for Transport,
Energy and Infrastructure

NEW JETTY AT RAPID BAY GEOTECHNICAL INVESTIGATION

Client: Project Director, Office of Major Projects and Infrastructure
Mr Robert B Jenkins

GSU NO: 1247

Date: March 2007

Prepared by: Nelson Mendoza
Assistant Geotechnical Engineer
Pavement & Structures Section
Transport Services
33-37 Warwick St, Walkerville
P.O. Box 1, Walkerville, SA 5081
Telephone: 8343 2326
Facsimile : 8343 2257

Table of Contents

1. Introduction	2
2. Investigations	2
3. Results	3
3.1 Site investigation results.....	3
3.2 Geology of the Rapid Bay Area.	3
3.3 Results from the 1938 Investigation.....	4
3.4 Construction History of Existing Jetty	5
4. Design and Construction of the New Jetty	5
4.1 Jetty Design	5
4.2 Piled Footings	5
4.3 Test Piling.....	6
4.4 Gravity Footing	6
5. Recommendations	6

Appendix A – Geological Map and Locality Plan

Appendix B – Jetty N°1 – Drilling Record and Soil Profile