

Water Quality Monitoring Report October 2009

Newcastle Cruising Yacht Club

File No 0-950 Water Quality Monitoring

Prepared for Newcastle Cruising Yacht Club Limited
Suite 9
NCYC Commercial Centre
91 Hannel Street
Wickham 2293

By **PPI Services Pty. Limited**
ABN 47 003 693 123



Report Certification:

PPI Services Pty Ltd has prepared the accompanying report as at 22nd October 2009 (the Report) for Newcastle Cruising Yacht Club (the Client) at the request of and exclusively for the use and benefit of the Client and/or its Directors.

Under the terms of its engagement, PPI Services Pty Ltd has examined the various environmental practices of project, and has relied on information provided by the Client and the on-site observations of its personnel. The qualifications of personnel involved in the preparation of this Report have previously been supplied to the Client.

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The Assessment has been conducted in accordance with the best practices available at the time and considers the identified hazards determined. Should any further hazards be identified at a later date, it is suggested that the processes be re-examined and this report updated.

I hereby certify that this report includes to findings and recommendations of the assessment process.

Stephen Fell
PPI Services Pty Ltd

Date: 22nd October 2009

Contact details:

Stephen Fell
PPI Services Pty Ltd
PO Box 404
WALLSEND NSW 2285
Telephone: 02 4950 2023
Facsimile: 02 4950 2169
Email: mycelx@ppiservices.com.au

Peter Arnott
PPI Services Pty Ltd
PO Box 404
WALLSEND NSW 2285
Telephone: 02 4950 2023
Facsimile: 02 4950 2169
Email: peter@ppiservices.com.au



Introduction

PPI Services were commissioned by Newcastle Cruising Yacht Club Limited to implement a Water Quality Monitoring Programme during construction and operational phases of the Newcastle Cruising Yacht Club Marina - Lot 103, Hannell Street, Wickham. The water quality-monitoring programme was designed to monitor and assess potential impacts of Marina construction and operation activities upon the quality of receiving harbour waters.

The Licence (EPL 11396) was then varied in accordance with the 'Draft Notice of Licence Variation Newcastle Cruising Yacht Club (NCYC) EPL 11396', dated 28th August 2008. The revised conditions involve a visual assessment/interface probe test for the presence of hydrocarbons at two existing groundwater wells (GW1 and GW4) every six months. Should positive results for the presence of hydrocarbons be obtained further laboratory analysis and testing will be required within 30 days of the initial discovery.

Methodology

Groundwater sampling of GW1 and GW4 was carried out with an interface probe test of each well and confirmed with a visual assessment of a water sample drawn from each well by means of a 1 litre disposable bailer.

Sample Date 22nd October 2009

Sample Locations as Per **Figure 1**

Results

Results for this sampling event are presented below:

GW1: Water at 2.20 metres and well bottom at 4.25 metres

pH 6.85 and temperature 23.2°C

No hydrocarbons detected by interface probe and no visible hydrocarbons observed

GW4: Water at 2.80 metres and well bottom at 4.80 metres

pH 7.60 and temperature 24.5°C

No hydrocarbons detected by interface probe and no visible hydrocarbons observed

Discussion

No hydrocarbons were detected in the wells sampled

All levels were at similar or below levels of previous monitoring events.

The next monitoring event is scheduled for April 2010.

