



Environmental Assessment

Dolans Bay Marina

Appendix 10

Report, Management Plan and Audit by Eclipse Environmental of the Existing Water Treatment System



APPENDIX 10 - Report, Management Plan & Audit by Eclipse Environmental of the existing water treatment system



Operation checklist for Dolans Bay Marina

1. At start of day switch valve to Bay position
2. Clean out pits and baskets
3. Switch power on, at control box
4. Flush out salt water from pits
5. Return valve to Normal position
6. Carry out slip operations
7. During work in progress check grates for excessive debris and remove
8. Clean area after slipping operations using a broom
9. Switch off system at end of day

Management plan for Dolans Bay Marina

Slipway operations involving removal of antifoul must only be conducted when the tide is below the collection stripdrains.

Consideration must be given to the cleaning of the stripdrains prior to the tide advancing over them.

No flammable liquids or non approved detergents are to be used in the slipway.

The entire slipway area must be swept down and all solid waste to be removed to an approved waste bin. This must be done after any antifouling operation and more often during a prolonged operation.

A log must be kept showing all activities being conducted on the slipway and relevant contacts of responsible persons.

A training course must be provided to all workman on the slipway to fully familiarise them with all statutory obligations and the correct functioning of the water treatment plant.

All workman must be inducted prior to work commencing on the site.



Process of Operation

All water is collected via a 300mm wide strip drain at the bottom of the slipway.

The water is pumped to the treatment plant and solids are trapped either in the strip drain or the solids collection pits prior to entry to the pump chamber.

The Hardstand working rate per day will be approx. 2000Lt.

The collected water is pumped through a bag filter to remove larger solids and passed through a coalescing plate separator.

This unit removes finer solids and any floating hydrocarbons.

The water is then pumped through a carbon/sand filter to remove heavy metals and small particles.

Flocculant and a sterilising chemical are added and the water is stored for reuse within holding tanks.

Specifications of equipment.

Collection Pit	Capacity	1000 lt.
Holding Tank	Capacity	4,000 lt.
Transfer pumps (4)	Capacity	1,000 lit/Hr
Hyd1000 CPI	Capacity	1,000 lt/Hr
Pump Box	Capacity	150 lt/min
Bag farm	Capacity	250 lt/min
Carbon filter	Capacity	250 lt/min
Irrigation tank	Capacity	1000lt.

Service interval

The equipment should be serviced every 3 months or sooner. This service should include cleaning all tanks and pits, backwashing of sand / carbon filter.

A service form from should be kept on file as proof of service as per statutory requirements.

The following chemicals are used in the treatment system.



AUSTRALIAN CHEMICAL INDUSTRIES P/L

P.O.BOX 541 CASTLE HILL 2154

PHONE 02 9721 3071

MATERIAL SAFETY DATA SHEET

Product Name: Hydrofloc
Manufacturer's Name: ACI
Telephone: 02 9721 3071
<u>GENERAL PROPERTIES</u>
A slight milky coloured liquid used for water treatment.
<u>PHYSICAL PROPERTIES</u>
Flammability and Explosive Properties: Non flammable
Flashpoint: n/a
Transport of Dangerous Goods Classification: nil
<u>CHEMICAL PROPERTIES</u>
Specific gravity 1.10 pH 6.0
Aluminium Sulphate <15 %
Profloc. potable water flocculant <10%
<u>REACTIVITY</u>
Stability: Stable <input checked="" type="checkbox"/> Unstable <input type="checkbox"/>
Conditions/Materials to avoid: reactive metals
Hazardous Decomposition Products: nil
<u>TOXIC PROPERTIES</u>
An exposure to the diluted working strength yields no toxic effects.



AUSTRALIAN CHEMICAL INDUSTRIES P/L

P.O.BOX 541 CASTLE HILL 2154

MATERIAL SAFETY DATA SHEET

PERSONAL PROTECTION REQUIRED

As with all chemical substances: Eye protection must be worn gloves, mask and apron.

HEALTH HAZARDS

Avoid breathing fumes directly from the drum.

Care should be exercised when opening the drum for pressure buildup.

FIRST AID

Eyes: wash with copious amounts of water, see a doctor

Skin: wash with water for 5 minutes

Ingestion: do not induce vomiting, give milk.

Inhalation: no apparent problem

WASTE DISPOSAL

As per local authorities codes.

SPILLAGE

Mop up spill immediately.

use water to dilute then wash away.



AUSTRALIAN CHEMICAL INDUSTRIES P/L

P.O.BOX 541 CASTLE HILL 2154

MATERIAL SAFETY DATA SHEET

BIOLOGICAL DATA

Oral LD50= 2850 mg/kg Rat

AQUATIC TOXICITY

nil in working concentration.

OTHER DATA

Company Representative: Uttam Sahirri

Telephone: 02 9721 3071

Date: 21/1/05



AUSTRALIAN CHEMICAL INDUSTRIES P/L

P.O.BOX 541 CASTLE HILL 2154

PHONE 02 9721 3070

MATERIAL SAFETY DATA SHEET

Product Name: Hypofloc
Manufacturer's Name: ACI
Telephone: 02 9911 7780

GENERAL PROPERTIES

A slight milky coloured liquid used for disinfection of potable water.

PHYSICAL PROPERTIES

Flammability and Explosive Properties: Non flammable
Flashpoint: n/a
Transport of Dangerous Goods Classification: Hazchem code 2R class 8

CHEMICAL PROPERTIES

Specific gravity 1.10 pH 12.00
sodium hypochlorite 12.5% solution >90 %
Profloc. potable water flocculant <1% Sodium Hydrxide <5 %

REACTIVITY

Stability: Stable Unstable
Conditions/Materials to avoid: reactive metals
Hazardous Decomposition Products: nil

TOXIC PROPERTIES

An exposure to the diluted working strength yields no toxic effects.



AUSTRALIAN CHEMICAL INDUSTRIES P/L

P.O.BOX 541 CASTLE HILL 2154

MATERIAL SAFETY DATA SHEET

PERSONAL PROTECTION REQUIRED

As with all chemical substances: Eye protection must be worn gloves, mask and apron.

HEALTH HAZARDS

Avoid breathing fumes directly from the drum.

Care should be exercised when opening the drum for pressure buildup.

FIRST AID

Eyes: wash with copious amounts of water, see a doctor

Skin: wash with water for 5 minutes

Ingestion: do not induce vomiting, give milk.

Inhalation: no apparent problem

WASTE DISPOSAL

As per local authorities codes.

SPILLAGE

Mop up spill immediately.

use water to dilute then wash away.



AUSTRALIAN CHEMICAL INDUSTRIES P/L

P.O.BOX 541 CASTLE HILL 2154

MATERIAL SAFETY DATA SHEET

BIOLOGICAL DATA

Oral LD50= 1950 mg/kg Rat

AQUATIC TOXICITY

nil in working concentration.

OTHER DATA

Company Representative: J. Thomas

Telephone: 02 9721 3071

Date: 21/06/05



Environmental Assessment Dolans Bay Marina

