



POLLUTION INCIDENT RESPONSE MANAGEMENT PLAN

2017



BURRANEER BAY MARINA

POLLUTION INCIDENT RESPONSE MANAGEMENT PLAN (PIRMP)

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This document was compiled specifically for Burraneer Bay Marina and all information relates specifically to the Marina operations at the time of publication. Any variation to the operational requirements or applications of those requirements can vary with day to day requirements including such items as (but not limited to) inclement weather, storms and available resources at specific times.

1st December 2016

Pollution Incident Response Management Plan -

A document that addresses statutory requirements in regard to best practice

2 – Objective of This Plan

The objective of this plan is to:

1. Effectively communicate information about a pollution incident to customers' staff and contractors at the premises, the Environmental Protection Authority (EPA), other relevant authorities and neighbours to the facility. These authorities include:
 - a. Fire and Rescue NSW, the NSW Police and the NSW Ambulance Service.
 - b. The Environmental Protection Authority (EPA)
 - c. The Department of Health via the local Public Health Unit
 - d. The Work Cover Authority
 - e. Any other party that might be impacted by a pollution incident
2. Minimise and control the risk of a pollution incident at the facility by requiring identification of risks and the development of planned actions to minimise and manage those risks.
3. Ensure that the plan is properly implemented by trained staff, identifying persons responsible for implementing it, and ensuring that the plan is regularly tested for accuracy, currency and suitability.

3 – Introduction

The purpose of these guidelines are to provide clear and comprehensive information to marina staff on the scope, role and content of the Pollution Incident Response Management Plan (PIRMP), and in assessing environmental impacts of business operations in Sutherland Shire and specifically Burraneer Bay.

Environmental Protection Plan address's the key directions, identified by Marina Management and the Sutherland Shire in 'Shaping the Shire to 2030 of -

- A. - Nurture our clean and beautiful environment
- B. - Preserve Burraneer Bay's water quality.
- C. - Increase Staff and Customer Awareness on issues that affect water way operations.
- D. - Maintain our prosperous business economics
- E. - Build safe, healthy and active lifestyles.

4 – General

This Pollution Incident Response Management Plan (PIRMP) has been prepared to assist in the environmentally sustainable operation of Burraneer Bay Marina. This PIRMP identifies the environmental control measures needed to minimise the ecological impact of daily operations of Burraneer Bay Marina on the surrounding environment. These control measures will assist in maximising the long-term sustainability of the Marina.

5 - Marina Environmental Policy.

The purpose and objective of this PIRMP, is to identify environmental issues with associated actions, relevant legislation, references, staff and contractor training and contingency procedures that are covered within this PIRMP. The PIRMP will act as a reference tool for the Operator's Staff, Contractors and Customers to work around the marina on land or water operations.

6 - The Location

This PIRMP has been prepared for Burraneer Bay Marina, water and Land based operations, Located at 48 Fernleigh Road, Caringbah NSW 2229.

7 - The Planning and Operational Context of the PIRMP

This PIRMP prescribes the environmental control measures to be implemented or maintained within the Marina Precinct.

It is expected that the environmental control measures prescribed in this document could be incorporated into a broader operational management system under the direction of the Owner.

This PIRMP specifically addresses Burraneer Bay Marina it provides the management framework for the environmental performance of the business. It is prepared to communicate the intention, commitment and approaches to minimising potential environmental impacts associated with the operation of the Marina complex.

The PIRMP sets out a schedule of control measures to manage the impact of operating activities on the environment, outlines the regulatory requirements and identifies requirements for monitoring, auditing and reporting activities and defines accountability

This PIRMP also aims to avoid or minimise the extent of any adverse effects on the amenity of the local environment and the wellbeing of the community.

8 - The Structure of this PIRMP

A - Details of the Environmental Management and Monitoring Measures provided at the Marina

B - Requirements for ongoing Operational Management and Control to ensure the Marina operates as planned.

9 - Protection of the Environment

The PIRMP recognises that operational activities have the potential to detrimentally Impact upon the amenity and biodiversity of the Marina waterways and surrounding environments if not managed effectively. This PIRMP aims to minimise the impact that operational activities will have on the amenity and biodiversity of Burraneer Bay and the adjoining environments surrounding the premises.

10 - Commitment to Environmental Protection

The Owners are committed to managing Burraneer Bay Marina in an environmentally responsible manner and is committed to the continued protection of environmental values of the site.

The Owner intends to operate Burraneer Bay Marina in a way that minimises environmental impacts and embraces the principles of ecologically sustainable development. This commitment is demonstrated throughout this PIRMP.

All marina staff will be required to demonstrate commitment to environmental protection through implementation of the requirements of the PIRMP.

11 – Legislation Requirements

The specific requirements for pollution incident response management plans are set out in Part 5.7A of the POEO Act and the Protection of the Environment Operations (General) Regulation 2009 (POEO(G) Regulation).

In summary, this provision requires the following:

- All holders of environment protection licences must prepare a pollution incident response management plan (section 153A, POEO Act).
- The plan must include the information detailed in the POEO Act (section 153C) and be in the form required by the POEO(G) Regulation (clause 98B).
- Licensees must keep the plan at the premises to which the environment protection licence relates (section 153D, POEO Act).
- Licensees must test the plan in accordance with the POEO(G) Regulation (clause 98E).

If a pollution incident occurs in the course of an activity so that material harm to the environment is caused or threatened, licensees must immediately implement the plan (section 153F, POEO Act).

I - Definition of 'Pollution Incident'

The definition of a **pollution incident** is:

Pollution incident means an incident or set of circumstances during or as a consequence of which there is or is likely to be a leak, spill or other escape or deposit of a substance, as a result of which pollution has occurred, is occurring or is likely to occur. It includes an incident or set of circumstances in which a substance has been placed or disposed of on premises, but it does not include an incident or set of circumstances involving only the emission of any noise.

II - Requirement For Notification Of A Pollution Incident

A pollution incident is required to be notified if there is a risk of 'material harm to the environment', which is defined in section 147 of the POEO Act as:

(a) Harm to the environment is material if:

(i) It involves actual or potential harm to the health or safety of human beings or to ecosystems that is not trivial, or

(ii) It results in actual or potential loss or property damage of an amount, or amounts in aggregate, exceeding \$10,000 (or such other amount as is prescribed by the regulations), and

(b) Loss includes the reasonable costs and expenses that would be incurred in taking all reasonable and practicable measures to prevent, mitigate or make good harm to the environment.

Industry is now required to report pollution incidents immediately to the EPA, NSW Health, Fire and Rescue NSW, WorkCover NSW and the local council. 'Immediately' has its ordinary dictionary meaning of promptly and without delay.

12 – Inventory of Pollutants

The known pollutants kept on site at Burraneer Bay Marina, and their locations are details in the following table:

Pollutant	Max Quantity to be Stored on Premises	Location
Diesel Fuel	10,000 Litres	Tanks located under carpark
Premium Unleaded Fuel	10,000 Litres	Tanks located under carpark
Unleaded Fuel	3,000 Litres	Tanks located under carpark
Antifoul Paint	150 Litres	Slipway Workshop
Engine Oil	600 Litres	Oil Storage Room – Next to Lift
Waste Oil	1000 Litres	Oil Storage Room – Next to Lift

13 - Objectives of the Environmental Protection Plan

Key Environmental Objectives

<u>ISSUE</u>	<u>OBJECTIVE</u>	<u>LIKELIHOOD OF HAZARD OCCURRING</u>	<u>TARGET</u>	<u>RESPONSIBILITY</u>
Fuel Management				
Boat fueling.	Minimise spills.	Likelihood if spillage is positive		
Fuel and oil waste management.	Minimise air and water pollution.	Likelihood if spillage id possible	No impact on Bay water quality.	Owner, Staff, clients and Contractors
Bilge water management.	Minimise safety risks.			
	Promote correct disposal methods.	Likelihood of spillage is possible		
Boat Maintenance				
Cleaning boats in and out of the water	Meet water quality objectives		No impact on	Owner, Staff, Clients and Contractors
	Minimise impact and promote correct cleaning methods	Likelihood of impact is possible	Bay water quality.	
Solid Waste				
Solid waste management.	Reduce the generation of Solid waste	Likelihood of impact is possible	No impact on bay water quality	Owner, Staff, Clients and Contractors
	Ensure the correct disposal of solid waste	Impact is possible but likelihood is low	Increased participation in recycling programs	
Liquid Waste				
Liquid waste management.	Reduce the generation of Liquid waste	Likelihood of impact is possible but low	No impact on water quality.	Owner, Staff, Clients and Contractors
	Ensure correct disposal	Likelihood of impact is possible but low		
Hazardous Waste				
Hazardous waste management	Reduce the generation of hazardous waste	Spillage unlikely – minimal use of hazardous chemicals		
	Ensure the correct disposal of hazardous waste			
Hull end topside maintenance - Painting	Encourage best practice procedures in relation to hull and topside maintenance.	Likelihood of spillage is possible but low	No Impact on bay water quality	Owner, Staff, Clients and contractors
Engine repair and maintenance	Encourage best practice procedures in relation to engine maintenance and correct disposal of waste.	Likelihood of spillage is possible		
Flares and battery management	Promote correct Oil, Filters Batteries and Flare disposal Methods	Likelihood of impact is remote		

Water Quality				
Management.	Prevent pollutants entering Marina Manage run-off into water	Likelihood if spillage is possible	No Impact on bay water quality	Owner, Staff, Clients and Contractors
	Monitor water quality within The Marina	Likelihood of impact is remote	No impact on aquatic eco systems	
Waste Water				
Sewage pump outs.	Prevent sewage entering Marina Waterways through the provision of Pump-out Facilities	Likelihood of spillage is possible	No Impact on bay water quality	Owner and Staff
Grey water.	To provide adequate onshore Facilities (i.e. showers & toilets)	Likelihood of impact is remote		
Ground Water				
Ground water management	Minimise impacts on ground Water quality and flow paths	Likelihood of impact is unlikely	Minimal impact on ground water quality	Owner and Staff
Marina Maintenance				
On-site maintenance (Lighting, recycling facilities, Ext. furniture, pedestrian paths, road and car park storm water pits and noise	Maintenance of the Marina's public facilities and infrastructure to a high standard	Likelihood of impact is remote	No impact on bay water quality	Owner and Staff
	Reduced environmental impacts through the adoption of best practice maintenance measures	Impact unlikely unless spillage came from outside marina facility	Minimise complaints from residents, public, EPA or council and comply with targets derived from EPA Guidelines	
Cleaner Production				
Water demand and usage	Reduction in water usage through	Likelihood if impact is very low	No impact on water quality	Owner & Staff

This PIRMP for the Marina recognises the activities that have the potential to impact upon the environment of, or adjacent to, the business premises. The PIRMP requires activities to be planned and conducted in a manner that protects and preserves the environment and the waterways.

The PIRMP will serve as a tool for environmental protection and management, this will be achieved by specifying monitoring and reporting requirements ensuring that the necessary controls are met. The PIRMP also makes provision, as appropriate, for unforeseen events by outlining corrective actions, which may be implemented during these situations.

14- Environmental Compliance

The PIRMP will be conducted taking account of all relevant Commonwealth, State and Local Government environment legislative requirements with a commitment to comply with all obligations under the relevant legislation and regulations that is applicable to the business premises.

15 - Operational Environmental Issues

An assessment of the level of environmental risk potentially associated with activities which may occur within the business premises has been undertaken and has identified the key environmental issues to be addressed in the PIRMP. For each key environmental issue, an environmental protection sub-plan has been prepared.

Key environmental issues addressed in this PIRMP are -

Fuel Management;
Habitats and Species;
Solid Waste;
Liquid Waste;
Hazardous Waste;
Water Quality;
Wastewater;
Groundwater;

16 – Contact Details

I – Personnel Contact Numbers

Key personnel at the Marina facility, with their contact details in the following Table.

Erin Honeman	Director	0418 287 044
Jack Felgate	Director	0407 951 388
Marley Cutbush	Marina Manager	0401 028 556
Dustin Kent	Slipway Manager	0417 669 038

II – Authority Contact Details

Environmental Protection Authority	Greg Newman	131 555
NSW Ministry of Health	Public Health Officer	(02) 9391 9000
Workcover NSW	-	13 10 50
Fire and Rescue NSW	-	000
NSW Police	-	000
NSW Ambulance Service	-	000
NSW Maritime	Andy Robertson	0417 243 456
Sutherland Shire Council	-	(02) 9710 0333

17 - Environmental Protection Plan, Sub-Plans

The environmental Protection sub-plans as included in this PRIMP detail the environmental protection measures to be performed during the operation of the Marina.

The sub-plans are titled according to the particular management issue, which could be encountered during the operation of the Marina these management issues have the potential to have an impact on the Marina and surrounding environment.

I - Fuel Management

Issue

Fuel and oil can be accidentally released into the environment during refueling through spills.

Objectives

To minimise oil and fuel spills to the environment.

To minimise the generation of incomplete combusted hydrocarbon pollutants to the environment during fueling operation

Management Action

- Provide Premixed Two Stroke Fuel directly from a Bowser.
- Automatic shut-off nozzles have been installed on all pumps to prevent spills occurring during re-fuelling.
- On-water re-fueling will only be allowed where fuel is stored in a fixed tank onboard the vessel.
- An oil and fuel spill response plan has been developed and is available in the procedures manual.
- Oil and fuel spill containment and clean-up kits are readily accessible in the fuelling area and staff are trained in its use.

Monitoring

Action / Frequency / Responsibility

All fueling areas and Equipment are inspected on a daily basis by staff to ensure they are in good working order and that no leakages have occurred.

Educational material is available as required to Marina Staff and users regarding the benefits of good Boat and Engine Maintenance practices

Action	Frequency	Responsibility
Oil spill containment and cleanup kits. Inspected to ensure that kits are complete and accessible.	Weekly	Owner and Staff

II - Waste Oil Management

Issue

Waste oil can present environmental and public safety issues if stored and/or disposed incorrectly.

Objective

To minimise negative environmental impacts and safety risks associated with the disposal of waste oil.

Management Action

- Provide controls for the collection of unwanted oil products.
- In case of spillage clearly labeled containers are located in the bunded area.
- Oil spills will be cleaned utilising absorbent material, which will be then disposed of in the appropriate manner.
- An oil and fuel spill response plan has been developed and is available

Monitoring

Action	Frequency	Responsibility
Disposal and storage areas will be inspected to ensure that waste is being handled correctly.	Daily	Owner and Staff
Oil and Fuel spill containment and Cleanup kits are inspected to ensure that kits are complete and accessible	Weekly	Owner and Staff

III - Waste Water Management

Issue

The discharge of wastewater presents a significant source of pollution.

Objective

To minimise the occurrence of contaminated wastewater and its discharge to the environment.

Management Actions

Boat users are advised not to discharge contaminated bilge water directly to the environment.

Monitoring / Action / Responsibility

Educational instruction is available from marina staff as required for marina users regarding the management of bilge water disposal from vessel

IV - Management of Landscaped Areas

Issues

Landscaped areas contribute significantly to the Marina's amenity and play an important role in the operation of the Marina's aesthetic appearance and controls ground water run off

Ongoing maintenance to be carried out to ensure the establishment and continued development of these areas.

Objectives

- To encourage biodiversity within the Marina area where possible.
- To incorporate environmental values into landscaping programs.

Management Actions

- All landscaped areas will be maintained. Plants in poor health will be tended to or be replaced with similar species.
- Weeds will be controlled.

Monitoring / Action / Responsibility

Landscaped areas will be inspected weekly by owner. Plants in poor health will be removed and replaced, weed eradication and Lawn controls are also undertaken at the same time.

V - Solid Waste

Issues

Solid waste can create a nuisance and become an eyesore if not managed correctly. The visual appearance of the Marina and waterways can be significantly reduced by the presence of solid waste. Additionally, solid waste can create hazards and pose a threat to human health.

Management to incorporate into the Marina operations a waste avoidance program which is the most desirable option followed by re-use, then recycling and disposal as the final option.

Objective

To reduce amount of solid waste generated within the Marina and to ensure that the waste produced is disposed of correctly.

Management Actions

- Marina staff and users are encouraged to develop new waste avoidance and re-use strategies.
- Interceptor Grates have been installed to capture litter that may drain into the storm water system.
- Interceptor Grates are cleaned at appropriate intervals as a function of the weekly Landscape inspections
- All waste will be disposed of in proper waste receptacles with wind / wildlife proof covers.
- Litter will be collected on a daily basis from both land and waterways.

Monitoring

Action	Frequency	Responsibility
Litterbins to be inspected to ensure they are in good working condition and that sufficient receptacles are provided.	Daily	Owner and Staff
Recycling Contractors are monitored to maintain their standards of practice	Weekly	Owner, Staff and Contractor
General site inspections are made to ensure that litter is not entering waterways.	Daily	Owner and Staff
Waste deposited in general litter bins Are being monitored to ensure that the receptacles are being utilised correctly.	Daily	Owner and Staff
Additional education programs will be implemented, if waste minimisation strategies are not being adopted.	As required	Owner

VI - Liquid Waste

Issues

The release of liquid waste to the environment can significantly reduce water quality, threaten aquatic life and habitats and threaten human health and safety. Liquid wastes can include used oil, unwanted fuels and chemicals, bilge water, contaminated spill control material, used batteries, washing solvents and other hazardous wastes.

Objective

To minimise pollution through the release of liquid wastes to the environment.

Management Actions

- Information will be provided to boat berth/mooring holders and Marina users regarding methods to reduce the occurrence of liquid wastes and their correct disposal methods.
- Signage advising Marina patrons of correct liquid waste management will be displayed in prominent locations.
- Spill control materials are provided for emergency situations.
- A spill contingency plan is provided
- Liquid waste storage areas will be bunded and covered to prevent rainwater from filling the bund.
- Storage containers are to be clearly marked to avoid mixing incompatible hazardous waste.
- Storm water entry pits will be marked to inform public that the drain enters the waterway.
- Additional education programs implemented, if waste minimization strategies are not being adopted.

Monitoring

Action	Frequency	Responsibility
Marina users will be monitored to Ensure liquid waste is being disposed Of correctly	Daily	Owner and Staff
Disposal and storage areas will be Inspected to ensure that waste is being handled correctly	Daily	Owner and Staff
Spill containment and cleanup kits will be inspected to ensure that kits are complete and accessible	Weekly	Owner and Staff
Additional education programs will be implemented, if waste minimisation strategies are not being adopted.	As required	Owner and Staff

VII - Hazardous Waste

Hazardous Waste Management

Issues

Incorrect disposal of hazardous waste can threaten human health and safety and can have adverse impacts on the environment.

Objective

To minimise the generation of, and manage hazardous wastes generated within the Marina so as to control negative environmental impacts and threats to human health and safety.

Management Action

- Information to be provided to Marina users regarding methods to reduce the occurrence of hazardous wastes and the correct methods of disposal.
- Signage will be displayed on solid waste receptacles to avoid incorrect disposal of hazardous wastes.
- The use of alternative parts cleaning products will be encouraged.
- Spill control material is provided
- Wastes will be segregated to ensure that domestic waste is not contaminated by hazardous waste.
- A licensed contractor will remove hazardous waste.
- Storage containers are to be clearly labeled to avoid mixing incompatible hazardous wastes.
- Storm water entry pits will be marked in a way that informs the public that the drain eventually discharges into a natural waterway. This may act as a deterrent to illegal discharges.
- Additional education programs will be implemented, if waste minimisation strategies are not being adopted.

Monitoring

Action	Frequency	Responsibility
Marina users will be monitored to Ensure hazardous waste is being disposed of correctly	Daily	Owner and Staff
Disposal and storage areas will be Inspected to ensure that waste is being Handled correctly	Daily	Owner and Staff
Spill containment and clean-up kits will be inspected to ensure that kits are Complete and accessible	Weekly	Owner and Staff
Additional education programs will be implemented, if waste minimisation strategies are not being adopted.	As required	Owner and Staff

VIII - Hull and Topside Maintenance: Painting

Issues

Hull painting and topside coating activities may result in the release of liquid solvents and harmful vapours to the environment. Hazardous wastes are often generated from painting activities (especially if solvents and I or heavy metals are contained within the paint materials).

Objective

To minimise the generation of hazardous waste and to manage the disposal of all hazardous waste.

Management Actions

- Vacuum sanders and grinders must be used to minimize dust generation.
- Paints containing low levels of solvents will be encouraged.
- Used solvents from cleaning or painting equipment will be placed in sealed containers and disposed of correctly
- Material Safety Data Sheets will be made available in an easily accessible and visible location.
- Acoustic barriers are to be installed if grinding and sanding of boats is conducted outside.

Monitoring

Action	Frequency	Responsibility
Work areas will be inspected to ensure they are in good working order.	Weekly	Owner and Staff
Random inspections of boat berthing and marine maintenance areas will be undertaken to ensure the preferred maintenance methods are being implemented.	On-going	Owner and Staff
Marina will stock preferred Paints	Monthly	Owner and Staff

IX – Slipway Management

- Heavy/large shells from vessel hull to be collected and disposed of in trade waste bin
- Filters to be cleaned as required and residue to be disposal of in trade waste bin
- All residue water from vessel cleaning to be put through filtration system
- Do not drink filtered water from the filtration system.

X - Engine Repair and Maintenance

Issues

Engines that are properly maintained are less likely to emit high levels of carbon monoxide, hydrocarbons, nitrous oxides and particulate matter to the air and aquatic environment. Waste generated during service and maintenance operations can present public health and environmental risks if this waste is not handled correctly.

Objective

To encourage boat owners/operators to maintain their vessels in good repair and to ensure that waste generated during servicing and maintenance is correctly disposed.

Management Action

- Boat owners and operators will be advised of designated boat repair and maintenance areas,
- Designated boat repair and maintenance areas will be provided debris will be captured and disposed of correctly by the boat owner/operator or contractor.
- Engine Maintenance areas will be properly maintained.
- Contractors providing boat maintenance services will be required to sign an agreement as to how boat materials are to be handled within the Marina.
- Supplies of absorbent materials are to be supplied by Contractors and Owner/Operators for the work that accomplishes, however the Marina will maintain a backup supply on an emergency basis.
- Contractors and boat owners are to clean up their own spill and take full responsibility for their own actions.
- Disposal area will be made available for contaminated absorbent material and waste arising through boat maintenance activities.

Monitoring

Action	Frequency	Responsibility
Boat maintenance areas will be inspected to ensure they are in good working order.	Daily	Owner and Staff
Waste storage areas will be inspected to ensure that waste is being handled correctly.	Daily	Owner and Staff

XI – Safety Flare Management

Issue

If disposed of incorrectly, out of date, damaged or water logged flares can create public safety risks.

Objective

To encourage the safe disposal of unwanted flares.

Management Actions

Boat and Marina users will be informed by Signs prohibiting the disposal of flares, or any hazardous materials in litterbins.

Monitoring

Action	Frequency	Responsibility
Litterbins will be inspected for Incorrectly disposed hazardous waste	Daily	Owner and Staff

XII - Battery Management

Issues

Most Batteries contain an electrolytic sulphuric acid solution and lead. If incorrectly disposed, batteries can have a detrimental impact on both humans and the environment.

Objective

To encourage the safe disposal of unwanted batteries

Management Actions

- Boat Owners and Marina users are to be advised that unwanted Batteries are not to be left unattended at the Marina. Drop off Locations for facilities if required will be advised.
- Workshop Batteries New and In-use will be stored undercover at all Times in wet weather.
- Unwanted workshop Batteries will be collected by an approved contractor for recycling

Monitoring

Action	Frequency	Responsibility
Unwanted Batteries for disposal	Daily	Owners, Staff and Contractors

XIII - Fish Waste

Issue

Disposal of fish waste in high quantities within the Marina can deplete the dissolved oxygen in the water and consequently impact on water quality, Also high quantities of fish waste will lead to odour problems.

Objective

To minimise the impact of fish waste on the Marina environment.

Management Action

- The Marina Precinct has been designated as a fish Sanctuary.

- Boat operators are advised that no cleaning of fish is to be undertaken at the marina Facilities.
- Boat operators are advised that unwanted Bait and Fish Parts are not to be disposed of at the Marina and are encouraged to dispose of unwanted bait offshore.

Monitoring

Action	Frequency	Responsibility
Inspect the waste areas	Daily	Owner and Staff

XIV - Marina Water Quality

Issues

Maintenance of the water quality within the marina and surrounding areas will be critical to the Marina's long-term sustainability

Boating and maintenance occurring within the Marina has the potential to impact on water quality through:

- Increased concentration of sediments, nutrients, metals or other pollutants entering the bay.
- Contamination of run off waters resulting from spillage.
- Contamination of run off waters resulting from the use and storage of chemicals and oils, greases and fuel.
- Contamination of storm water runoff with salts, nutrients or suspended solids such as litter and anthropogenic floatable materials such as foams or scum.

Objectives

- To ensure that the Marina activities do not result in an increase in the loads or concentrations of pollutants entering the bay.
- To monitor water quality.
- To protect aquatic eco-systems and biology.
- To ensure best practices

Management Actions

- Ongoing water clarity monitoring as a common daily practice.
- Marina maintenance activities will be undertaken in order to ensure proper housekeeping to reduce the incidence of waste entering the waterway.
- The sewer pump out facilities will be in operation and maintained.
- All ground water points will be regularly monitored.
- Maintenance materials and equipment will be kept covered and away from waterways.
- Storm water pits will be regularly inspected and obstacles will be removed as soon as practicable.
- Water collected from roof areas will be diverted to suitable permeable areas or storage tanks for re-use on landscaped areas.

Monitoring

Action	Frequency	Responsibility
Inspect Marina Waterways	Daily	Owner & Staff
Inspect storm water pits	Weekly	Owner & Staff

XV - Wastewater

Issues

The discharge of domestic sewage into Marina waterways has the potential to significantly degrade water quality.

Objective

To provide adequate sewage pump out facilities.

Management Actions

- Pump out connection points are installed at the marina and will be maintained.
- Pump out equipment will be operated by trained marina staff.
- Marina users will be advised of these facilities.

Monitoring

Action	Frequency	Responsibility
Pump out connections will be inspected to ensure they are in good working condition.	Daily	Owner and Staff

XVI - Greywater

Issues

The discharge of wastewater from boat sinks and showers to the waterways has the potential to significantly degrade water quality.

Objective

To provide adequate onshore facilities for boat owners to utilise.

Management

- Onshore showers facilities will be provided and maintained in good working order and in a clean state.
- Boat owners will be encouraged to utilise phosphate free biodegradable soaps on vessels.
- Boat owners will be encouraged to install water saving devices on vessels.

Monitoring

Action	Frequency	Responsibility
Onshore Facilities condition inspection	Daily	Owner & Staff

18 – Minimising Harm to Persons on the Premises

Should a significant incident occur that has the potential to cause harm to any person on the site, immediate action will be taken to notify the relevant authorities.

Persons on-site who are not suitably attired with PPE or have not had training will be required to assemble at the two muster locations for site personnel. This procedure will be incorporated in the on-site inductions for any people on-site.

Instructions will then be given by the relevant person in charge, being either the Director or

Employees have been trained in pollution incident procedures. They will undertake their various roles in the event of a pollution incident.

19 – Pollution Incident Response

Background

The Protection of the Environment Legislation Amendments Act 2011 (POELA Act) introduced changes to improve the way pollution incidents are reported, managed and communicated to the community. The Act includes a requirement under Part 5.7A of the Protection of the Environment Operations Act 1997 (POEO Act) to prepare, keep, test and implement a pollution and incident response management.

The Environmental Protection Sub-Plans, as listed endeavor to consider all possible issues specific to the operation of the Marina, however, unforeseen accidents can occur.

Issue

To deal with and unexpected pollution risk or incident that might involve material harm or threatened material harm to human or animal health, or the environment.

Objective

To be prepared to communicate, manage and minimise any pollution incident that might occur at or near the facility involving hazardous or non-hazardous pollutants.

Management

Marina staff, contractors and customers are encouraged to recognize and report pollution risks and incidents. These might involve dust, smoke, noise or odour and may require neighbor notification. Pollution incidents need to be reported immediately and response action implemented to minimise the effects. Investigation and research following all events should indicate the potential for future risks or likelihood of recurrence which may require the development and implementation of an environmental protection sub-plan to deal with the specific incident.

Monitoring

- Document all pollution events in the incident register
- Introduction of an environmental protection sub-plan if required
- Marina staff, boat owners and the facilities neighbours are encouraged to discuss ways in which pollution is managed in order to eliminate or minimise affects

Neighbours & the Local Community will be notified via door knock if an incident occurs

20 - Copy of Plan

A copy of this “Pollution Incident Response Management Plan” will be kept on the Burraneer Bay Marina website, www.burraneerbaymarina.com.au. Copies will be provided free of charge to any person who makes a written request to Burraneer Bay Marina.

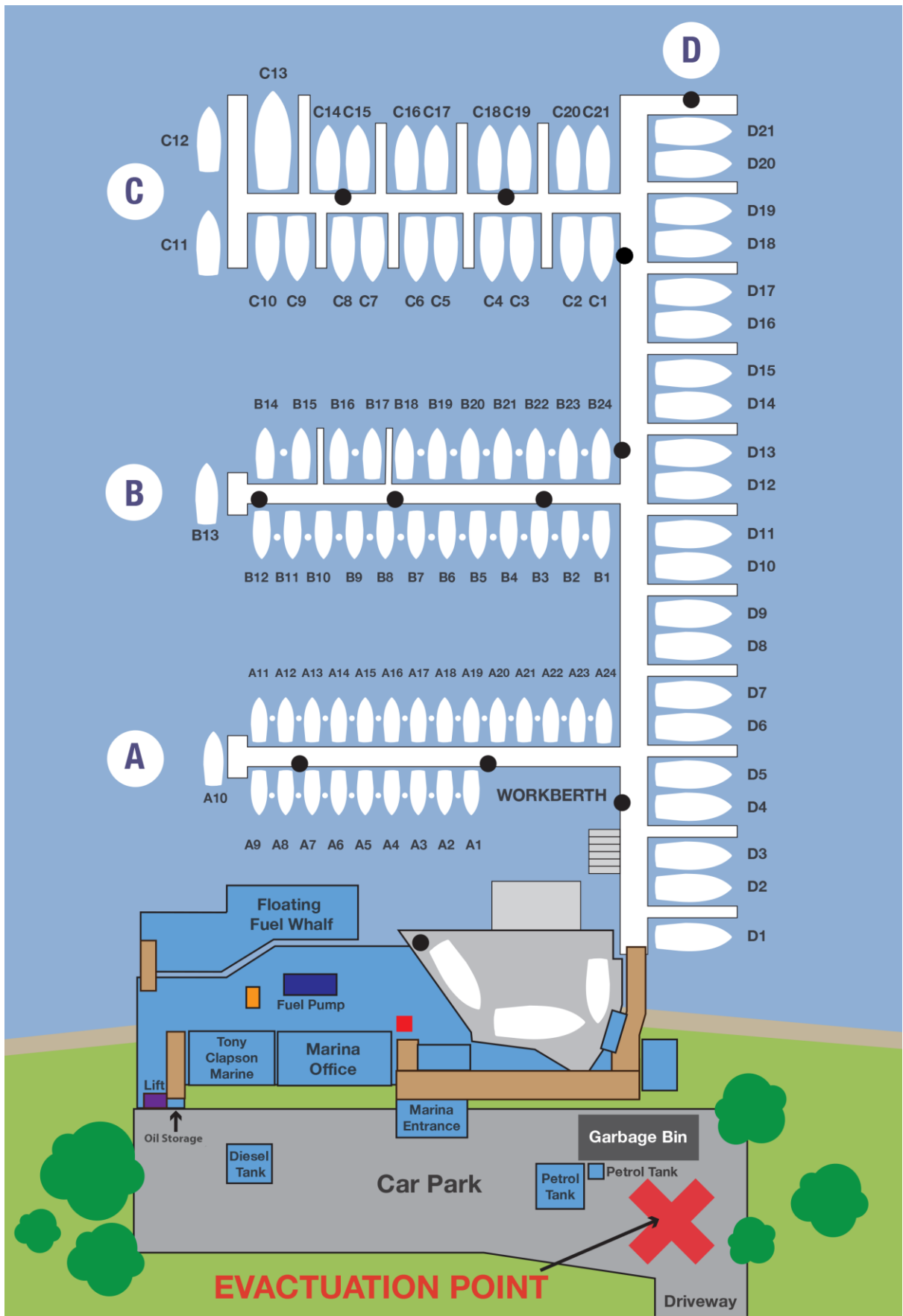
21 – Testing the Plan

This plan will be tested and updated every 12 months or within 1 month of a pollution incident, the test will include the following procedures:

- Is all the information within the plan accurate and up to date?
- Are all the sections of the plan workable, and can they be implemented in an effective manner?

All staff members will be asked to read through the “Pollution Incident Response Management Plan” and then sign and date once understood.

22 - Burraneer Bay Marina Map



● Fire Hoses ■ Staircases ■ Fuel Shut Off Value In Pit ■ Pump Out Facility

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