

ST GEORGE



MOTOR BOAT CLUB

**POLLUTION INCIDENT
RESPONSE MANAGEMENT
PLAN**



POLLUTION INCIDENT RESPONSE MANAGEMENT PLAN

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Foreword.

This document has been prepared specifically for the St George Motor Boat Club and relates specifically to the marina operations at the time of publication. Any variation to 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.

2. Objective of This Plan

A **Pollution Incident Response Management Plan (PIRMP)** is a document that addresses statutory requirements in regard to best practice.

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 marina. these authorities include:
 - a. Fire and Rescue New South Wales the New South Wales police and the New South Wales ambulance service
 - b. the Environmental Protection authority (EPA)
 - c. the Department of Health via the local public health unit
 - d. the word cover authority
 - e. any other party that might be impacted by the pollution incident
2. Minimise control the risk of a pollution incident at the facility by requiring identification of wrists and the development of planned actions to minimise and manage those risks
3. Ensure the plan is properly implemented by trained staff, identifying persons responsible for implementing it and ensuring the plan is regularly tested for accuracy currency and suitability.

3. Introduction

The purpose of these guidelines is to provide clear and comprehensive information to marina staff on the scope, role and content of the Pollution Incident Response Management Plan (PIRMP).

Environmental Protection Plan address's the key directions identified by marina management and the Georges River Council:

1. Preserve waterway quality
2. Increase awareness for staff, customers on issues that affect our waterways
3. Maintain prosperous business economics
4. 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 St George Motor Boat Club Marina. This plan identifies the environmental control measures needed to minimise the ecological impact of daily operations of St George Motor Boat Club Marina on the surrounding environment. These control measures will assist in maximising the long-term sustainability of the Marina.

5. Marina Environment Policy

The purpose and the 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 both land and water.

The St George Motor Boat Club seeks to ensure that it can contribute to a high quality of life by protecting and enhancing the environment and by supporting the concept of environmentally sustainable practices. The Marina provides valuable support to recreational boating by providing facilities for storing, repairing and maintaining vessels. It prides itself in fostering a positive relationship with the users of its facilities, the community and other industry providers.

The St George Motor Boat Club will ensure that its environmental priorities are included into the decisions relevant to its services and will:

- Seek to eliminate the unnecessary use of energy by introducing site-specific practices where possible and ensuring any current practices to reduce usage are relevant.
- Avoid waste and encourage the conservation, reuse and appropriate recycling of resources.
- Reduce air, land and water pollution in a process of continuous improvement. This will be achieved through containment of run-off from any work undertaken on the slipway, use of appropriate controls to reduce any emissions into the air, adherence to working hours to ensure minimisation of impact of any noise on adjoining properties.
- Apply principles of risk management in order to pre-empt rather than respond to environmental problems and apply the "precautionary principle". This will be achieved through the implementation of a site-specific Operational and Environmental Management Plan.
- Promote understanding and participation in environmental issues through education, information provision and consultation with employees specifically, customers, local residents and the community generally.
- Review all its environmental practices annually.
- Work with industry and other stakeholders at a local level to encourage good environmental practices.

6. Location

This PIRMP has been prepared for the St George Motor Boat Club Marina for both land and water based operations. The St George Motor Boat Club is located at 2 Wellington Street, Sans Souci, New South Wales, 2219.

7. The Planning and the Operational context of the PIRMP

This PIRMP prescribes the environmental control measures to be implemented and maintained within the marina area of the ST George Motor Boat Club. 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 club and board of directors. this PIRMP specifically addresses to George Motor Boat Club Marina and provides the management framework for the environmental performance of the club. It is prepared to communicate the intention commitment and approaches to minimising potential environmental impacts associated with the operation of the Marina. The PIRMP sets out a schedule of control measures to manage the impact of operating activities on the environment, outlines the regulatory requirements and identified the requirements for monitoring, auditing and reporting activities which defines accountability. The PIRMP also aims to avoid or minimised 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

1. Details of the Environmental Management and Monitoring Measures provided at the marina
2. Requirements for ongoing Operational Management and Control to ensure the Marina operates as planned.
- 3.

9. Protection of the Environment

The PIRMP recognises that the operational activities have the potential to detrimentally impact upon the amenity, biodiversity of the waterways and surrounding environments if not managed effectively. This PIRMP aims to minimise the impact that operational activities will have on the amenity, biodiversity of the Georges River and the surrounding environments.

10. Commitment to Environmental Protection

The CEO and board of directors are committed to managing St George Motor Boat Club Marina in environmentally responsible manner and are committed to the continued protection of environmental values of the site. This will be done through operating the marina in a way that minimises the environmental impact and embraces the principles of ecologically sustainable development.

As a testament to this statement the CEO and board of directors will ensure all marina staff are trained on how to correctly implement and maintain the requirements of this PIRMP.

11. Protection of the Environment

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 licenses 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 license 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 a “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 escape or deposit of 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 the eco systems that is not trivial, or
 - ii. It results in the potential loss or property damage of an amount, or amounts in aggregate, exceeding \$10,000 (or such other amounts 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 incidents immediately to the EPA, NSW Health, Fire and Rescue NSW, WorkCover NSW and the local council. “Immediately” has its ordinary dictionary meaning as promptly and without delay.

12. Inventory of Pollutants

The known pollutants kept on site at The St George Motor Boat Club and their locations:

POLLUTANT	MAX QUANTITY TO BE STORED ON PREMISIS	LOCATION
Diesel Fuel	10,000 Litres	Tanks located under northern end of lower car park.
Premium Unleaded Fuel	10,000 Litres	Tanks located under northern end of lower car park.
Antifoul Paint	100 Litres	Bunded area of Aquatic Power workshop or bunded storage container on slipway.
Engine Oil	400 litres	Bunded pallet Aquatic Power Workshop.
Waste Oil	400 litres	Bunded pallet Aquatic Power Workshop.

13. Objectives of the Environmental Protection Plan

<u>ISSUE</u>	<u>OBJECTIVE</u>	<u>LIKELIHOOD OF OCCURANCE</u>	<u>TARGET</u>	<u>PERSONS RESPONSIBLE</u>
Fuel Management				
Boat Refuelling	Minimise Spills	Likelihood of spillage is very high		
Fuel and oil waste management	Minimise air and water pollution.	Likelihood of spillage is possible but low	The target for all three is to have no impact on water quality.	Marina Manager, Marina Staff, Aquatic Power, Contractors and Marina Members
Bilge water management	Minimise risk by having disposal methods in place	Likelihood of spillage is possible but low		
Boat Maintenance				
Cleaning of boats in and out of the water	Meet water quality objectives Minimise impact and promote correct cleaning methods	Likelihood of impact is possible but low	The target for this is to have no impact on water quality.	Marina Manager, Marina Staff, Aquatic Power, Contractors and Marina Members
Solid Waste				
Solid waste management	Reduce the generation of solid waste Ensure the correct disposal of solid waste	Likelihood of impact is possible but low	The target is to minimise impact on water quality by engaging more in recycling programs	Marina Manager, Marina Staff, Aquatic Power, Contractors and Marina Members

Liquid Waste				
Liquid waste management	Reduce the amount of liquid waste Ensure the correct disposal of liquid waste	Likelihood of impact is possible but low	The target is to have no impact on water quality..	Marina Manager, Marina Staff, Aquatic Power, Contractors and Marina Members
Water Quality				
Water quality Management	Prevent pollutants entering the marina Manage run-off into water	Likelihood of spillage is possible	No impact on water quality within the marina and waterways	Marina Manager, Marina Staff, Aquatic Power, Contractors and Marina Members
Waste Water				
Sewage pump out	Prevent sewage entering marina waterways.	Likelihood of spillage is possible	No impact on surrounding water quality.	Marina Manager and Staff
Grey water management	Minimise the amount	Likelihood of impact is remote.	No impact on surrounding water quality.	Marina Manager and Staff
Ground Water				
Ground Water Management	Minimise impact on ground Water quality and flow paths	Likelihood of impact is possible but unlikely	Minimal impact on ground water quality.	Marina Manager and Staff

Marina Maintenance				
On-Site maintenance (Lighting, recycling, facilities, pedestrian paths, surrounding roads, paths, carpark storm water drains and the reduction of noise.	Maintenance of the marina's public facilities and completing infrastructure to a high standard. Reduce environmental impacts through the adoption of best practice	Likelihood of impact is remote. Impact is unlikely unless spillage came from outside marina boundary.	No impact on surrounding water ways. Minimise complaints and from public, EPA or council and comply with targets derived from EPA guidelines.	CEO, Marina Manager and Staff.
Hazardous Waste				
Hazardous Waste Management Engine Repair and maintenance Flares and battery maintenance / oil disposal	Reduce the generation of hazardous waste Ensure correct disposal of hazardous waste Encourage best practice procedures in relation to engine maintenance and disposal of waste Promote correct oil, battery and flare disposal methods	Likelihood of spillage or incorrect disposal is very unlikely as there is minimal use of hazardous chemicals Likelihood of spillage is possible but low Likelihood of impact is very low / remote	No impact on surrounding water quality.	CEO, Marina Manager and Staff. As well as owner / employees of Aquatic Power.

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

14. Environmental Compliance

The PIRMP will be conducted taking into account all relevant Commonwealth, State and Local Government environmental 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 issue, an environmental protection sub plan has been prepared.

The key environmental issues addressed in this PIRMP are:

1. Fuel Management
2. Habitats and Species
3. Solid Waste
4. Liquid Waste
5. Water quality
6. Wastewater
7. Ground water
8. Hazardous Waste

16. Contact Details

Personnel Contact Numbers:

Adrian Vermeulen	CEO	0418 667 241
Matthew Feening	Operations Manager	0403 200 603
Scott Jones	Marina Manager	0409 090 712

Authority Contact Details:

Environmental Protection Authority	Greg Newman	131 555
NSW Ministry of Health	Public Health Officer	(02) 9391 9000
Safe Work NSW		13 10 50
Fire and Rescue NSW		000
NSW Police		000
NSW Ambulance Service		000
NSW Maritime	Andy Robertson	0417 243 456
Georges River Council		(02) 9330 6400

17. Environmental Protection Plan, Sub-Plans

The environmental sub-plans as included in this PIRMP 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 its surrounding environments.

1. Fuel Management

Issue

Fuel and oil can be accidentally released into the environment during refuelling 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 fuelling operations.

Management Action

- Automatic shut off nozzles have been installed on all pumps to prevent spills occurring during re-fuelling.
- Options of low and high flow fuel pumps have been installed
- Small fuel tank bin has been placed on the fuel berth to ensure any spills while filling small tanks are captured.
- An oil and fuel spill response plan has been developed and is available in the procedure's manual.
- Oil and fuel spill kits are accessible on the fuel berth and all staff have been trained in their use. Instructions for use are also located within these kits.

Monitoring / Action / Responsibility

- All equipment and fuelling areas 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
Spill Kits Inspected to ensure that kits are complete and accessible.	Accessibility checked daily. Complete kits checked weekly.	Marina Manager and Marina Staff.

2. Waste Oil

Issue

- Waste oil can present environmental and public safety issues if stored/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 as a free service for marina members.
- In case of spillage all oil containers are clearly labelled within the bunded area.
- Oil spills will be cleaned utilising absorbent material, which will be then disposed of in the appropriate manner.

Monitoring / Action / Responsibility

ACTION	FREQUENCY	RESPONSIBILITY
Disposal and storage areas will be inspected to ensure that waste is being handled correctly.	Daily	Marina Manager and Marina Staff.
Oil and Fuel spill kits are inspected to ensure that they are complete and accessible.	Weekly	Marina Manager and Marina Staff.

3. 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 into the environment.

Monitoring / Action / Responsibility

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

Marina users are given free disposal of bilge water through the slip water treatment plant.

4. Solid Waste

Issues

Solid waste can create a nuisance and become an eye soar 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 must therefore create and implement a program to first re-use, then recycle and lastly dispose of.

Objective

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

Management Actions

- Marina Staff and marina members are encouraged to develop new waste avoidance and re-use strategies.
- Rubbish bins are to be clearly marked and labelled with the correct items that are to be placed in them.
- Rubbish Bins to be secured to marina to keep in place during strong winds and emptied each day / twice a day for busy weekends.
- Storm water drains grates to be checked and cleared weekly.

ACTION	FREQUENCY	RESPONSIBILITY
Rubbish Bins to be inspected to ensure they are in good working order and that sufficient receptacles are provided.	Daily	Marina Manager and Marina Staff.
Recycling contractors are monitored to maintain their standards of practice	Weekly	Marina Manager and Marina Staff and contractor.
General inspections are made to ensure that litter is not entering the waterways.	Daily	Marina Manager and Marina Staff.
Waste deposited in general rubbish bins are monitored to ensure the correct rubbish is being placed in them.	Daily	Marina Manager and Marina Staff.

Additional education programs will be implemented, if waste minimisation strategies are not being adopted.	As Required	Marina Manager.
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5. 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 marina members regarding methods to reduce the occurrence of liquid wastes and their correct disposal
- Spill control materials are provided for emergency situations
- A spill contingency plan is available
- 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.
- Additional education programs are to be implemented, if waste minimization strategies are not being adopted.

ACTION	FREQUENCY	RESPONSIBILITY
Marina users will be monitored to ensure liquid waste is being handled and disposed of correctly.	Daily	Marina Manager and Marina Staff.
Disposal and storage areas will be inspected to ensure that waste is being handled correctly.	Daily	Marina Manager and Marina Staff.
Spill containment and clean-up kits will be inspected to ensure the kits are complete and are accessible.	Weekly	Marina Manager and Marina Staff.
Additional education programs will be implemented, if waste minimisation strategies are not being adopted.	As required	Marina Manager and Marina Staff.

6. Hazardous Waste

Issues

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

Objective

To minimise the generation of hazardous waste and manage hazardous wastes generated within the marina. This will allow us to control the negative impacts on the environment and human health and safety.

Management Action

- Information to be provided to marina members 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 cleaning products will be encouraged.
- Wastes will be segregated to ensure that domestic waste is not contaminated by hazardous waste.
- Additional educational programs will be implemented if waste minimisation strategies are not be met.

ACTION	FREQUENCY	RESPONSIBILITY
Marina members will be monitored to ensure hazardous wastes are being disposed of correctly.	Daily	Marina Manager and Marina Staff.
Disposal and storage areas will be inspected to ensure that waste is being handled correctly.	Daily	Marina Manager and Marina Staff.
Spill containment and clean-up kits will be inspected to ensure that kits are complete and accessible.	Weekly	Marina Manager and Marina Staff.
Additional education programs will be implemented if waste minimisation strategies are not being adopted.	As required	Marina Manager and Marina Staff.

7. Hull and Topside Maintenance

Issues

Hull painting and topside maintenance of vessels may result in the release of liquid solvents and harmful vapours to the environment. Hazardous wastes are often generated from painting activities.

Objective

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

Management Actions

- As painting materials and topside coatings can contain harmful solvents and heavy metals, the St George Motor Boat Club has banned painting of any kind whilst berthed at the marina. The only exception to this is the slipway which has a fully contained bunded area in which only the rolling of antifoul is permitted.
- Material Safety Data Sheets will be made available in an easily accessible location for all products used on the slipway.
- Vacuum sander and grinders must be used to minimise dust generation.

ACTION	FREQUENCY	RESPONSIBILITY
Work areas will be inspected to ensure they are in good working order.	Weekly	Marina Manager and Marina Staff.
Daily inspections of boat berthing to ensure no works are being carried out	Daily	Marina Manager and Marina Staff.
Slipway will stock proffered paints only	On going	Aquatic Power

8. Slipway Management

- Large / Heavy shells that are water blasted from vessel hulls are to be collected and disposed of in trade waste bin.
- All residue water from vessel cleaning is to be drained into a water filtration system.
- All filters for the water filtration system are to be checked and cleaned with all residue

9. 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.
- 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.

ACTION	FREQUENCY	RESPONSIBILITY
Boat maintenance areas will be inspected to ensure they are in good working order.	Daily	Marina Manager, Marina Staff, Aquatic Power
Waste storage areas will be inspected to ensure that waste is being handled correctly.	Daily	Marina Manager, Marina Staff, Aquatic Power

10. 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.

ACTION	FREQUENCY	RESPONCIBILITY
Rubbish bins will be checked for incorrectly disposed hazardous waste.	Daily	Marina manager, Marina Staff

11. 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

ACTION	FREQUENCY	RESPONCIBILITY
Marina inspected for any batteries incorrectly disposed of.	Daily	Marina manager, Marina Staff and contractors

12. 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 Friendly Marina.
- Boat operators and berthing members are advised that no cleaning of fish is to be undertaken at the marina except for the designated fish cleaning station where disposal of fish waste into the river basin is prohibited.
- Boat operators are advised that unwanted Bait and Fish Parts are to be only disposed of at the Marina fish cleaning bin.

ACTION	FREQUENCY	RESPONCIBILITY
Inspect fish cleaning station to ensure standards are being met.	Daily	Marina manager and Marina Staff

13. 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.

ACTION	FREQUENCY	RESPONCIBILITY
Inspect marina waterways	Daily	Marina manager and Marina Staff
Inspect storm water drains	Weekly	Marina manager and Marina Staff

14.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 and that it is a free service.

ACTION	FREQUENCY	RESPONCIBILITY
Wastewater pump out facility will be checked to ensure it is in good working order	Daily	Marina manager and Marina Staff

15. 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.

ACTION	FREQUENCY	RESPONCIBILITY
Onshore facilities will be inspected to ensure satisfactory conditions are met.	Daily	Marina manager and Marina Staff

16.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.

17.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, endeavour 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 neighbour 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

18.Copy of Plan

A copy of this “Pollution Incident Response Management Plan” will be kept on the St George Motor Boat Club website, www.stgeorgembc.com.au Copies will be provided free of charge to any person who makes a written request to St George Motor Boat Club.

A hard copy of this plan is available to all at the marina office.

19.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.

20. St George Motor Boat Club Marina Map

