Environmental Management System of

Claremont Yacht Club

Endorsed: 25 February 2011



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Environmental Policy

On the 25th February 2011 the Claremont Yacht Club endorsed the environmental management system. The Club will endeavour to implement the strategies outlined for the management of environmental risk within stated timeframes. Furthermore we make a commitment to make the environment a key consideration in the decision making process of our organisation and in:

- **✓**Compliance with all relevant legislation.
- Commitment to continual improvement in the prevention of pollution
- The development of, and adherence to, good environmental procedures by our Members, Staff and Contractors.
- Regular measurement of the Club's environmental performance.

Dominic Papaluca Commodore

Clive Annear Vice Commodore

RISK ASSESSMENT AND OPERATIONAL CONTROL

Risk Assessment Matrix

			Consequence							
Likelihood		1	2	3	4	5				
		Insignificant	Minor	Moderate	Major	Catastrophic				
5	Almost Certain	5	10	15	20	25				
4	Likely	4	8	12	16	20				
3	Moderate	3	6	9	12	15				
2	Unlikely	2	4	6	8	10				
1	Rare	1	2	3	4	5				



Extreme risk; immediate action required

High risk; senior management attention needed

Moderate risk; management responsibility must be specified

Low risk; manage by routine procedures

As at 25 February 2011 the Claremont Yacht Club commits to implement the Operational Controls for each Risk within the stated time frames.

Time Frames

- I Already Implemented
- 6 To be implemented within 6 months of endorsement date
- To be implemented within 12 months of endorsement date
- To be implemented within 24 months of endorsement date
- D Deferred
- N/A Not Applicable

Activity/Event	Fuel Storage

Risk	Hydrocarbon contamination from storage tanks and associated pipe works							
Objective	Prevent loss of hydrocarbons to the environment from storage tanks and associated pipe works							
Legal Requirements	See attached list of legislation to be met							
Operational Control	All bunding and containment to be impervious. Double skinned pipes and double wrapped tanks	I	Likelihood	Consequence	Risk Rating			
	Minimise likelihood of tank and associated pipe works failure by ensuring tanks located as close as possible to point of delivery of fuel	I	5:Almost Certain 4: Likely 3:Moderate 2: Unlikely	5:Catastrophic 4:Major 3: Moderate 2: Minor				
	Provision of appropriate emergency response equipment (Booms, mats etc). 2 spill kits – 1 on jetty and 1 near office.	I	1: Rare	1: Insignificant				
	Develop preferred procedures for the filling of bulk fuel tanks. Use licensed fuel delivery company with their own filling procedure. Fuel tanks are dipped before delivery. Industry practice requires delivery driver to dip tanks and confirm capacity available for deliveries. Fuel supply levels reconciled with fuel delivery.	I						
	Develop and implement an inspection and maintenance program for fuel tanks and associated pipe works	I	2	2	4			
	Provide training to relevant staff on preferred procedures and emergency response plan.	I						
	Develop an emergency response plan	I						
	All incidents to be reported to manager (or delegate) of the club	I						
	All fuel spill incidents to be reported to the relevant agencies (refer to Emergency & Accident Response section)	I						
	System in place to detect leakage from fuel storage tanks. Sampling bores maintained annually	I						

Activity/Event	Vessel Refuelling								
Risk	Hydrocarbon contamination from spillage during refuelling								
Objective	Prevent spillage of hydrocarbons (fuels) during refuelling								
Legal Requirements	See attached list of legislation to be met								
			Likelihood	Consequence	Risk Rating				
Operational Control	Bowsers fitted with variable rate delivery nozzles	I	F. Almost Cortain	F:Cataatranhia					
	Bowsers fitted with auto-shut off delivery nozzles	I	5:Almost Certain 4: Likely 3:Moderate 2: Unlikely 1: Rare	5:Catastrophic 4:Major 3: Moderate 2: Minor 1: Insignificant					
	Members are encouraged to have fuel/air separators inline devices in their vessels that prevent fuel from escaping vents. Advised by 'Midstream' newsletter	I							
	Provision of appropriate spill response equipment (booms, mats etc) in close proximity to refuelling facility.	I			4				
	Develop a member preferred procedure on refuelling.	I	2	2					
	Provide training to members/clients/contractors on preferred procedures	I							
	Instructions for refuelling at bowser, including response in event of a spill. Members only – instructions to new members include refuelling.	I							

Activity/Event	Discharge from Vessels							
Risk	Pollution of the river from bilge water							
Objective	Prevent discharge of hydrocarbons or other contaminants into river via bilge water							
Legal Requirements	See attached list of legislation to be met							
Operational Control	Suitable bilge pillow waste disposal facilities provided. Members responsibility	I	Likelihood	Consequence	Risk Rating			
	Members are encouraged to have oil separation/absorption pillow in bilges of vessels with automatic bilge pumps. Readily available at office, bar and chandler	I	5:Almost Certain 4: Likely 3:Moderate 2: Unlikely	5:Catastrophic 4:Major 3: Moderate 2: Minor				
	Provide training to members/staff/ clients/contractors on impact, use and options for bilges pillows.	I	1: Rare	1: Insignificant	_			
	Bilge water contaminated with other substances (eg detergents, degreaser) to be removed and appropriately disposed. Member's responsibility, advised by 'Midstream' newsletter.	I	2	2	4			
	Non compliance of members/staff/clients/contractors results in consequences.	I						
	Non compliance of members/staff/clients/contractors to be reported to managing body of marine facility.							

Activity/Event	Hardstand Runoff - NOT APPLICABLE - no slipway facility, no cleaning of boats permitted on site, no dust generating activities permitted						
Risk	Pollution of the environment from contaminated runoff						
Objective	Containment and treatment of all hardstand runoff to remove contaminants						
Legal Requirements	See attached list of legislation to be met						
Operational Control	Adequate bunding and stormwater diversion to prevent cross contamination of runoff	NA	Likelihood	Consequence	Risk Rating		
·	from dirty work areas and clean work areas Provision of interceptors or litter and oil traps to prevent pollution to the river from dirty work areas.	NA	5:Almost Certain 4: Likely 3:Moderate 2: Unlikely	5:Catastrophic 4:Major 3: Moderate 2: Minor 1: Insignificant			
	Interceptor traps/filtration systems regularly maintained/cleaned.	NA	1: Rare				
	Clean water separation to minimise contamination and need for treatment of stormwater runoff.	NA					
	Oil absorbent mats to be made available	NA					
	Oil separator waste routinely disposed into oily waste/oil recycling program.	NA					

Activity/Event	Vessel Maintenance on Hardstand (including engine maintenance, hull cleaning/stripping, antiform	ouling, g	general painting &	maintenance) NC	T APPLICAB			
Risk	Pollution of the environment from boat maintenance and hull cleaning operations on hardstand/slips							
Objective	Prevent contamination of the environment from vessel maintenance works undertaken on hardstand/slips							
Legal Requirements								
Operational Control	Boat Maintenance and Cleaning		Likelihood	Consequence	Risk Rating			
	Provide a clearly marked designated work area with adequate kerb bunding.	NA	5:Almost Certain 4: Likely	5:Catastrophic 4:Major				
	Containment of blasting/spraying/sanding waste by erecting a mobile barrier to catch dust and spray For e.g. a double layer of shade cloth on wheels (only airless spraying permitted). No blasting or spray painting permitted.	NA	3:Moderate 2: Unlikely 1: Rare	3: Moderate 2: Minor 1: Insignificant				
	Provide designated covered waste bins for solid wastes generate during boat maintenance and hull cleaning.	NA						
	Provide solvent and hydrocarbon recovery containers.	NA						
	Develop preferred procedures for maintenance works (eg limit blasting according to wind conditions, preferred maintenance methods and chemicals).	NA						
	Provide training to members/staff/clients/contractors on procedures for maintenance works	NA						
	Contingency Plan; Use external appropriately equipped facilities.	NA						
	Non compliance of members/staff/clients/contractors to be reported to managing body.	NA						
	Non compliance of members/staff/clients/contractors results in consequences.	NA						

Operational Control	Applying Antifouling to Vessels		Likelihood	Consequence	Risk Rating
Operational Control	All antifouling technology used by members/clients/contractors to comply with Department of Environmental Protection and Transport WA regulations.	NA	5:Almost Certain 4: Likely 3:Moderate	5:Catastrophic 4:Major 3: Moderate	
	All antifoulants used by members/staff/clients/contractors to be unadulterated.	NA	2: Unlikely 1: Rare	2: Minor 1: Insignificant	
	Preferred antifouling technology readily available (at recommended retailer or chandler)	NA			
	Provide information on the environmental consequences of antifouling technology	NA			
	Non compliance of members/staff/clients/contractors results in consequences.	NA			
	Non compliance of members/clients/contractors to be reported to managing body.	NA			
	Vessel Maintenance				
	Power tools with dust extractors used on site	NA			
	Anyone wishing to carry out abrasive blasting or spray painting on the premises must inform the grounds/yard manager.	NA			
	No visible dust to escape into areas of public access.	NA			
	Wet blasting procedures are the preferred option with adequate collection & proper disposal of the run off (no abrasive blasting allowed on site).	NA			
	Dust creating activities to be only carried out in calm conditions (less than 4m per sec, approx 12 knots, with direction away from areas need protection)	NA			
	All contractors used on site to be registered companies.	NA			
	All blasting materials to be acceptable under Department of Environmental Protection regulations	NA			
	Encourage the use of less invasive blasting materials (eg. garnet, bicarbonate of soda)	NA			

Activity/Event	Cleaning/maintenance of Vessels in Water							
Risk	Contamination of environment due to cleaning of vessels in pen areas							
Objective	Prevent contamination of environment by cleaning agents or other substances used on vessels in pens							
Legal Requirements	See attached list of legislation to be met	See attached list of legislation to be met						
Operational Control	Use of chemicals in skirting that are harmful to the environment is not permitted. Club	I	Likelihood	Consequence	Risk Rating			
	Use of chemicals in skirting that are harmful to the environment is not permitted. Club rules No abrasive cleaning or scraping of hulls that result in hull coating (antifoul or other) being released into the river. Advised by 'Midstream' newsletter No discharge of cleaning products or effluent to river.	I	5:Almost Certain 4: Likely 3:Moderate 2: Unlikely 1: Rare	5:Catastrophic 4:Major 3: Moderate 2: Minor 1: Insignificant				
	Encourage the use of appropriate materials for cleaning. Provide training to members/staff/clients/contractors on preferred procedures for cleaning.	I	3	2	6			
	Non compliance of members/staff/clients/contractors results in consequences Contingency Plan; Use suitable facilities at another club	I I						
	Non compliance of members/clients/contractors to be reported to managing body of marine facility.	I						

Where possible, boats will be rinsed with water only.

Activity/Event	Noise Management								
Risk	Noise pollution causing a nuisance and/or endangering the health of neighbours and members/clients/contractors								
Objective	Reduce all noise pollution such that no health risk is posed and no nuisance caused to neighbours								
Legal Requirements	See attached list of legislation to be met								
			Likelihood	Consequence	Risk Rating				
Operational Control	Noise producing boat building and maintenance to occur only between the hours of 0700 and 1900 (between 0900 and 1900 on Sundays and public holidays) Advised by 'Midstream' newsletter If noise complaints received, club to work with Local Government Environmental Health officer and complainant to negotiate acceptable levels and times for the activity to continue. Non compliance of members/staff/clients/contractors to be reported to managing body of marine facility	I	5:Almost Certain 4: Likely 3:Moderate 2: Unlikely 1: Rare	5:Catastrophic 4:Major 3: Moderate 2: Minor 1: Insignificant					
			2	2	4				

Activity/Event	Property Management							
Risk	Contamination of river from fertiliser, herbicides, pesticides, green wastes, general litter.							
Objective	Prevent pollution of the river arising from general grounds and property management.							
Legal Requirements	See attached list of legislation to be met							
			Likelihood	Consequence	Risk Rating			
Operational Control	Install litter traps in stormwater drains	NA						
	Provide a buffer strip of native vegetation around river with reduced chemical use.	I	5:Almost Certain 4: Likely 3:Moderate	5:Catastrophic 4:Major 3: Moderate				
	Use preferred and appropriate pesticides and herbicides.	I	2: Unlikely 1: Rare	2: Minor 1: Insignificant	4			
			2	2				

No run off from lawn to river

Activity/Event	Storage of hazardous and dangerous goods NOT APPLICABLE							
Risk	Contamination of environment from stored hazardous and dangerous goods							
Objective	Prevent contamination of the environment or unacceptable exposure to people resulting from the storage and use of hazardous and dangerous chemicals							
Legal Requirements	See attached list of legislation to be met							
Operational Control	All areas where hazardous and dangerous chemicals are stored and used to comply with current Department of Minerals and Energy and Department of Environmental Protection regulations and standards and guidelines where applicable.	NA	Likelihood 5:Almost	Consequence 5:Catastrophic	Risk Rating			
	Provision of chemical spill stations with absorbent clean-up material	NA	Certain 4: Likely 3:Moderate	4:Major 3: Moderate 2: Minor				
	Undertake inventory of all hazardous and dangerous chemicals on the premises, including those held by ground-people, contactors and sub-lessees. Ensure all Materials Safety Data Sheets (MSDS) for chemicals are available on site.		2: Unlikely 1: Rare	1: Insignificant	_			
	Conduct inspection to quantify the level of danger (hazard) presented by the flammable, combustible or environmental hazardous material.	NA						
	Develop storage facilities and management practices incorporating the principles of separation from other facilities, people and property, segregation from other incompatible dangerous goods, secondary containment to intercept uncontrolled spills, security to prevent unauthorised entry and use of the materials, ventilation to prevent exposure to vapours and emergency response planning such that adequate fire fighting equipment, first aid treatment commensurate with the type of hazardous materials and appropriate emergency response contact numbers (Poisons Information, Medical, Fire and Emergency Services) are available.	NA						
	Dangerous goods signage should be placed on gates for the fire department	NA						
	Audit compliance with standards and guidelines annually	NA						
	Develop an emergency response plan	NA						
	Club to provide appropriate first aid, first line fire fighting and emergency spill equipment	NA						
	All spill incidents to be reported to the relevant agencies. Appropriate phone numbers must be displayed.	NA						

Activity/Event	Moorings – installation and ongoing use						
Risk	Damage to sea grass and other river bed habitat						
Objective	Ensure low impact design moorings are installed when current moorings are due for	r repla	cement				
Legal Requirements	See attached list of legislation to be met						
Operational Control			Likelihood	Consequence	Risk Rating		
Operational Control	Consider installation of low impact design moorings as current moorings become due for replacement.	I	5:Almost Certain 4: Likely 3:Moderate 2: Unlikely 1: Rare	5:Catastrophic 4:Major 3: Moderate 2: Minor 1: Insignificant	4		

Activity/Event	Minor maintenance of marina Infrastructure	Minor maintenance of marina Infrastructure						
Risk	Pollution arising from maintenance works on piles, jetties, pontoons etc, such as patreatments.	inting/a	anti-fouling, denzo	wrapping or other s	urface			
Objective	Prevent contamination of the environment from maintenance works on marina infra	structui	re					
Legal Requirements	See attached list of legislation to be met							
Operational Control	Contain and appropriately dispose of any dust or liquid wasto/spillage arising from	T	Likelihood	Consequence	Risk Rating			
operational control	Contain and appropriately dispose of any dust or liquid waste/spillage arising from maintenance works on marina infrastructure Advised by 'Midstream' newsletter		5:Almost Certain 4: Likely 3:Moderate 2: Unlikely 1: Rare	5:Catastrophic 4:Major 3: Moderate 2: Minor 1: Insignificant	4			
			2	2				

Legislation Requirements

- 1. Swan River Trust 2. Environmental Protection Authority 3. Department of Mines and Petroleum
- 4. Department of Transport 5. Department of Environment and Conservation 6. Relevant Local Government Authorities

LEGAL REQUIREMENTS PROCEDURE							
Date of Review: Officer Name:	Date of Next Review: Officer Signature:						
Current Legal Requirements	Changes in Legal Requirements	EMS Updated Y/N					
Swan River Trust							
Environmental Protection Authority							
Department of Mines and Petroleum							
Department of Transport							
Department of Environment and Conservation							
Relevant Local Government Authorities							

Objectives & Targets/ Monitoring & Measuring Programme

Objective	Target	Responsibility	Time frame for review	Monitoring/ Measuring
Prevent loss of hydrocarbons to the environment from storage tanks and associated pipe works	Nil leakage or spillage from bulk tanks and associated pipe work	General Manager	Every 3 months	Incident Report Forms
Prevent spillage of hydrocarbons (fuels) during refuelling	Nil spillage of fuels to water during refuelling	Members	Every 3 months	Incident Report Forms
Prevent discharge of hydrocarbons or other contaminants into river via bilge water	No contaminants to be released into river via bilge water	Members	Every 3 months	Incident Report Forms
Containment and treatment of all hardstand runoff to remove contaminants	Contaminant levels in any discharge to river are reduced to within ANZEC guidelines (95% species protection)	N/A	Annual	N/A
Prevent contamination of the environment from vessel maintenance works undertaken on hardstand/slips	No visible dust emission beyond hardstand No harmful antifouling agents detectable in any discharge to river (TBT etc)	N/A	Annual	N/A
Prevent contamination of environment by cleaning agents or other substances used on vessels in pens	No contamination of environment with cleaning agents from vessels in pens.	Members	Annual	Incident Report Forms
Reduce all noise pollution such that no health risk is posed and no nuisance caused to neighbours	Any noise generated is with compliant with Environmental Protection (Noise) Regulations 2007. No noise complaints received from neighbours	Members	Annual	Incident Report Forms
Prevent pollution of the river arising from general grounds and property management.	No use of herbicides and pesticides near shoreline	General Manager	Annual	Incident Report Forms
Prevent contamination of the environment from maintenance works on marina infrastructure	No contamination of environment from maintenance works	General Manager & Management Committee	Annual	Incident Report Forms
Ensure low impact design moorings are installed when current moorings are due for replacement	Any moorings requiring replacement are replaced with low impact designs	General Manager & Management Committee	Annual	N/A
Prevent contamination of the environment or unacceptable exposure to people resulting from the storage and use of hazardous and dangerous chemicals	Storage and use of hazardous substances complies with all relevant regulations at all times. Nil incidences of spillage or accidents related to hazardous substances. Nil environmental contamination from hazardous substances.	N/A	Annual	Incident Report Forms

Emergency & Accident Response

• Any incident or accident that has the potential to cause pollution or otherwise impact on the river environment must be reported immediately to the Swan River Trust, by phone call to the numbers below.

During office hours – Duty Officer – 9278 0981 After Hours – Duty Officer – 0419 192 845

Depending on the nature of the incident, reporting to other authorities may also be required.

- In relation to hydrocarbon (fuel and oil) spills, it is a requirement to report any confirmed spills, AND any noticeable hydrocarbon slicks observed within or immediately adjacent to the club facilities, regardless of whether a spill source has been identified. As a rough guide, a 'noticeable' slick can be considered as any visible sheen/slick of fuel (petrol or diesel) covering an area of more than 100 m2 (10x10m or equivalent), or any slick of oil covering an area of more than 16m2 (4x4m or the equivalent).
- A written incident report should be completed and a copy provided to the Swan River Trust when an incident is considered significant, or when requested by the Trust.

Register of Emergency Response tests

No.	Description of test	Planned date	Actual test date	Responsibility	Comments

Incident Report Form

Location		
Time: Date:		
Detailed Description (how, size, type, impacts e	etc)	
Response (what has been done and what need	s to be done)	
Incident reported by:	Signature:	
To be completed by General Manager		
ls further remediation or investigation required	? U YES	NO

Oil and Hazardous Materials Incident Report Form

Date and Time of Discharge			/		/	I	AM/PM
Location of Discharge							
Cause of Discharge							
Steps taken to stop discharge							
Materials used to clean up, absorb or contain spill							
Type and volume of substance discharged							
Risk Rating	Minor		Mode	rate 🛭	□ Sig	nificant 🖵	I Extreme □
Description	Release Damag	ge to	o flora/f		☐ Di:	eleased to	Soil to neighbours
Person/Vessel/Activity responsible							
Contact details of person responsible or witnesses							
Was discharged reported?	YES		NO [_			
Reporting Officer Name and Signature							

Responsibilities & Training Schedule

Staff Member	Job Description	Responsibility within EMS	Training Required
Club Manager			
Bosun			

Communicating with Staff & Contractors					
EMS	Induction				
	Organisational Meeting				
	Document readily available for reading				
Policy	Readily available for reading				
	Posted on notice board for all to read				
Responsibilities in EMS	Internal Training – whole group / one on one				
Consequences of Non Conformance	Internal Training – Whole group/ one on one				
External Communication?	□ Yes □ No				
If yes, list methodology					

Document Register

Document Reference	Brief description	Storage Location	Retention Time	Protection (if applicable)	Disposal Method (if applicable)
EMS Manual	Description of the scope of the EMS and the documented procedures that underlie the system				
EMS	A plan that enables the Club to control the effect of its activities on the natural environment.				
Risk Management Manual	A plan that responding to and managing risks associated with the Club's activities				
Emergency Response Plan	Procedures for responding to a comprehensive range of emergency situations that may affect the organisation				

Evaluation of Compliance

Activity/Event	Risk	Occurrences of Non- conformance	Compliance with Legal Requirements (Y/N)	Recommended changes to controls (if any)
Vessel maintenance on hardstand	Pollution of the environment from boat maintenance & hull cleaning operations on hardstand/slips			
Fuel Storage	Hydrocarbon contamination from storage tanks and associated pipe works			
Storage of hazardous & dangerous goods	Contamination of environment from stored hazardous and dangerous goods			
Refuelling	Hydrocarbon contamination from spillage during refuelling			
Discharge from vessels	Pollution of the river from bilge water			
Hardstand Runoff Not Applicable	Pollution of the environment from contaminated run off			
Cleaning of vessels in water	Contamination of environment due to cleaning of vessels in pen areas			
Noise Management Not Applicable	Noise pollution causing a nuisance and/or endangering the health of neighbours and members/clients/contractors			
Property Management	Contamination of river from fertiliser, herbicides, pesticides, green wastes and erosion			
Marina infrastructure maintenance works	Pollution arising from maintenance works on piles, jetties, pontoons etc, such as painting/anti-fouling, denso wrapping or other surface treatments.			
Ensure low impact design moorings are installed when current moorings are due for replacement	Damage to sea grass and other river bed habitat			

Non Conformance register

Date	Details of preventive/correction action request	Raised by	Response to request	Close Date	Initials

Corrective and Preventative Action Request Form

Section to be filled out by employee								
Employee name: Date:								
Concern (use additional sheet/map if necessar	y)							
Action taken (if any)								
Signature:	Date:							
	ed out by Manager							
Is this a non conformance? Why or Why not?								
Possible Solutions								
Correction and/or Preventative Action/s require	ed							
Person responsible: Due Date:	Completed by: Date Completed:							
EMS to be revised? ☐ Yes ☐ No If Yes, how?	·							
used to verify effectiveness; - Evidence submitted (attach) - Follow up audit - Other, describe	aluated and determined to be effective. Method							
Corrective/Preventative Action accepted								
Manager signature: Dat	e:							

Internal Audit Schedule

Requirements	1 st quarter	2 nd quarter	3 rd quarter	4 ^{tn} quarter
Policy				
Environmental Aspects & Legal requirements				
Objectives and Targets				
Resources, Roles, Responsibilities & Training and Awareness				
Communication				
Documentation				
Document and Record Control				
Operational Control				
Emergency Response				
Monitoring and Measuring				
Evaluation of Compliance				
Non conformity				
Internal Audit				
Management Review				