

RISK ASSESSMENT MATRIX.

	<i>Severity of Outcome</i>		
<i>Probability of Accident.</i>	<i>Slightly harmful. (Low)</i>	<i>Harmful. (Medium)</i>	<i>Extremely harmful. (High)</i>
<i>Highly unlikely. (Low)</i>	Trivial Risk	Tolerable Risk	Moderate Risk
<i>Unlikely (Medium)</i>	Tolerable Risk	Moderate Risk	Substantial Risk
<i>Likely (High)</i>	Moderate Risk	Substantial Risk	Intolerable Risk

RISKS AND ACTIONS.

<i>RISK LEVEL</i>	<i>ACTION AND TIMESCALE</i>
Trivial	No action required.
Tolerable	No additional controls are required. Consideration may be given to a more effective solution or improvement.
Moderate	Efforts should be made to reduce the risk. Risk reduction measures should be implemented within a defined period. Where the moderate risk is associated with harmful/serious consequences further assessment may be necessary to establish more precisely the likelihood of harm as a basis for determining the need for improved control measures.
Substantial	The activity should not be started until the risk has been reduced. Considerable resources may have to be allocated to reduce the risk. Where the risk involves activity already in progress, urgent action should be taken.
Intolerable	Activity should not be started or continued until the risk has been reduced. If it is not possible to reduce risk even with unlimited resources activity has to remain prohibited.

Acknowledgment: Risk assessment matrix and Risks and Actions matrix – from Henley Open Events Long Distance Races. Hazards, Possible outcomes, planned action to control, boat risk – 2003 South Coast Championships, Christchurch R. C. Upper Thames Small Boats. Camping – Education Leeds Safety Management system

RYDE REGATTA – RISKS.

RISK (Possible hazard)	Possible Outcome. (Risks involved)	Probability H/M/L	Severity H/M/L	Risk Level	Planned Action to Control. (Preventative Action.)
ON THE SEA.					
Rough sea conditions.	Sinking/Swamping/ Exhaustion/capsize*.	Medium	Medium	Moderate	1) At least two fully equipped Rescue Boats to be afloat at all time with experienced/qualified crew. 2) Officials to consider with drawl of Novice Fours events and small boats (White horse conditions) 3) Communication and Emergency plan in place and well publicised.
Other water users (including other crews/scullers)	Collision/sinking/ swamping/capsize*.	Medium	Medium	Moderate	1) At least two fully equipped Rescue Boats to be afloat at all time with experienced/qualified crew. 2) Boats to meet ARA/H&D Safety standards – i.e. bow balls fitted on single sculls. 3) Communication and Emergency plan in place and well publicised.
Capsize*	Immersion, feet caught, hypothermia, hit by blade, drowning.	Low	Medium	Tolerable	1) At least two fully equipped Rescue Boats to be afloat at all time with experienced/qualified crew. 2) First Aiders and First Aid Equipment to be available afloat and ashore. 3) Communication and Emergency plan in place and well publicised.
Collision (static obstruction). Note: Post marking Canoe Lake outfall – near start/finish – will be buoyed.	Sinking/capsize/injury/ damage.	Medium	Medium	Moderate	1) Course map showing obstructions in program and at control and warning included in regatta safety briefing. 2) At least two fully equipped Rescue Boats to be afloat at all time with experienced/qualified crew. 3) First Aiders and First Aid Equipment to be

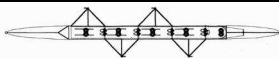
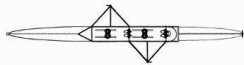
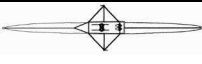
RISK (Possible hazard)	Possible Outcome. (Risks involved)	Probability H/M/L	Severity H/M/L	Risk Level	Planned Action to Control. (Preventative Action.)
Collision (static obstruction) cont...					available afloat and ashore. 4) Communication and Emergency plan in place and well publicised. 5) Post near start/finish to be buoyed.
Over-exertion (illness/injury in boat).	Pulled muscles, Hyperventilating, Cramp, Hypothermia.	Low	Low	Trivial	1) At least two fully equipped Rescue Boats to be afloat at all time with experienced/qualified crew. 2) First Aiders and First Aid Equipment to be available afloat and ashore including defibrillator. 3) Communication and Emergency plan in place and well publicised.
Running-aground.	Damage to boat, injury to person.	Medium	Low	Tolerable	1) Communication and Emergency plan in place and well publicised. 2) Course to be well marked and plan of course made available.
Launching/recovery	Swamping/capsize.	Medium	Medium	Moderate	1) First Aiders and First Aid Equipment to be available afloat and ashore including defibrillator. 2) Communication and Emergency plan in place and well publicised.
Electrical Storms	Risk of Lightning strike.	Low	High	Moderate	Use the 30 – 30 rule when you see lightening. (see attached). Seek proper shelter – racing suspended and come ashore.
ON THE LAND.					
Promenade and promenade wall.	Fall and/or injury when passing boats and equipment/jumping over wall and/or whilst being loaded/unloaded from boat trailers to competitors or public. Items obstructing path.	Low	Low	Trivial	1) First Aiders and First Aid Equipment to be available including defibrillator. 2) Signs warning of danger to be displayed.

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Beach (Boat Park)	Soft sand/broken glass/buried objects.	Low	Low	Trivial	1) First Aiders and First Aid Equipment to be available including defibrillator. 2) Visual check of beach before and after Regatta.
Road and Lane	Obstructions from parked cars/potential for traffic accident.	Low	Medium	Tolerable	1) Warning signs to be displayed. 2) No Parking Cones. 3) First Aiders and First Aid Equipment to be available including defibrillator.
Area in front of Clubhouse	Alcohol being consumed – broken glass/bottles. Excess of drink consumed. Barbecue – scalds & burns.	Low	Low	Trivial	1) Regular collection of empty glasses/bottles. 2) Plastic glasses to be used. 3) Bar staff can refuse to serve. 4) Patrols by Club Officers. 5) First Aiders and First Aid Equipment to be available including defibrillator.
Appley Park	Alcohol being consumed – broken glass/bottles. Excess of drink consumed.	Low	Low	Trivial	1) Regular collection of empty glasses/bottles. 2) Plastic glasses to be used. 3) Patrols by Club Officers. 4) First Aiders and First Aid equipment available including defibrillator.
Clubhouse	Alcohol being consumed – broken glass/bottles. Excess of drink consumed. Very crowded.	Low	Low	Trivial	1) Regular collection of empty glasses/bottles. 2) Plastic glasses to be used. 3) Bar staff can refuse to serve. 4) Patrols by Club Officers. 5) First Aiders and First Aid equipment available including defibrillator.
CAMPING.					
Obstacles (Tents, ropes, pegs)	Slips, trips and falls	Medium	Low	Tolerable	1) Cordoned off area for Camping – only to be used for camping. 2) RRC Clubhouse outside lighting will provide some light during the Night. 3) Areas around tents to be designated as non-activity areas.

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Obstacles (Tents, ropes, pegs) etc...					<p>4) Tent pegs to be knocked flush to the ground to prevent trips.</p> <p>5) Guide ropes to be highlighted where they present a trip hazard.</p> <p>6) Communication with visiting clubs will include briefing on camping area and care to be taken</p>
Use of cooking stoves/Lights/BBQ's	Fire, burns.	Low	Low	Trivial	<p>1) No BBQ allowed.</p> <p>2) Use of cooking stoves will be discouraged by providing cooking facilities within the Clubhouse and following rules will be applied -</p> <p>No cooking allowed in or within two metres of tents.</p> <p>No smoking or naked flames, e.g. candles, matches, lighters etc, in or around tents.</p> <p>Tilley lamps not to be used, battery lanterns or torches used instead.</p> <p>3) RRC Clubhouse outside lighting will provide some light during the night.</p> <p>4) Communication with visiting clubs will include briefing on camping area and care to be taken.</p> <p>5) Hose and Fire Fighting equipment are available in the Clubhouse.</p> <p>6) First Aid Kit available in RRC Clubhouse.</p> <p>7) Emergency Telephone available in the Clubhouse.</p>

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Hygiene.	Illness, Food poisoning.	Low	Low	Trivial	1) First Aid Equipment will be available from the RRC Clubhouse including defibrillator. 2) Toilets, Showers and washing facilities will be available in the RRC Clubhouse. 3) The Clubhouse facilities will be available for food preparation. 4) Communication with visiting clubs will include briefing on camping & care to be taken. 5) Emergency Telephone available in Clubhouse
Inclement Weather (wind/rain).	Collapsed or waterlogged tent	Low	Low	Trivial	1) RRC Clubhouse will be available if any tents become waterlogged or collapse or in any other way unusable. 2) Communication with visiting clubs will include briefing on camping area and care to be taken.

BOAT RISK ASSESSMENT.

Boat description and number in crew.	Diagram	Collision Risk	Capsize Risk	Sinking/Swamping Risk	Risk Level.
Coastal Coxed Four. C4+ 4 Rowing + Cox = 5.		Low – has coxswain so is steered. Fast.	Low – four blades so stable – main risk is equipment failure.	Medium – limited buoyancy will sink to rigger height.	Tolerable.
Coastal Coxless Pair. C2- Two rowing.		High – no coxswain steered by one of crew. One can pull the other round. Relatively slow.	Medium – one blade each side – high risk is equipment failure.	Medium - limited buoyancy.	Moderate.
Coastal Single Scull. C1x One Sculling.		Medium – no coxswain – steered by sculler. Relatively slow.	High – one scull each side and not very stable.	Low – very buoyant.	Tolerable.

NOTES:

- 1) Prepared assuming same level of skill present in each boat, plus where applicable reasonably trained coxswain.
- 2) Risk multiply for Novice/inexperienced crew and coxswains and in rougher conditions.

Note on Electrical Storms

Racing will be suspended if there is threat of an electrical storm. If there is a gap of less than 30 seconds between the thunder clap and the lightning strike, boats must immediately turn around and head back to the clubhouse as fast as possible. Rowing will not commence until there has been no further thunder or lightening for at least 30 minutes.

British Rowing Row Safe offers the following guidance: Use the '30 - 30 Rule' when you see lightning, count the time until you hear the thunder.

- If it is 30 seconds (approx. 10 km away) or less, seek 'proper shelter'.
- If you can't see the lightning, just hearing the thunder is a good back-up rule for it being time to seek 'proper shelter'.
- Wait a minimum of 30 minutes after the last lightning or thunder before leaving shelter.
- On average a typical storm moves at about 40 km/h giving approx 15 minutes to seek 'proper shelter'.
- Although no place is absolutely safe from lightning some are safer than others and 'proper shelter' can be:
 - an enclosed substantial building with electric and telephone wiring and plumbing to provide a safe pathway for the current to earth to the ground.
 - a fully enclosed metal vehicle with windows shut. This acts as a Faraday cage and guides the lightning around the passengers - mini-buses are an excellent shelter for large groups of people.
- Unsafe locations and situations are:
 - open spaces - field, lake, river
 - underneath canopies, small rain shelters, trees, umbrellas, tents & marquees
 - close vicinity to the tallest structure in an area near metal or carbon objects - riggers, boats, blades,
 - trailers, launches, etc.
 - using electrical appliances or plumbing such as water taps, sinks etc.