



**Risk Assessment**  
**SEA AND TIDAL ESTUARY**

**For Club Rowing**

NAME AND ADDRESS OF SAFETY OFFICER		Ewan Dryburgh, 125 Belle Vue Road, Shrewsbury, SY3 7NJ, 07710 306739 ewan@dgaltd.co.uk.			Activity:	Sea and Tidal Estuary	
Rowing Club and Location:		Shropshire Adventure Rowing Club, Stuarts Shed, Berwick Rd, Shrewsbury			Date:	03.04.13	
1. Hazard	2. Who Might Be Harmed?	3. How Could Individuals Be Harmed?	4. Probability of Risk Highly Unlikely Unlikely Likely	5. Current Level of Risk (with no controls) (trivial, tolerable, moderate, substantial, intolerable)	6. Existing Precautions? Are These Adequate?	7. Record Any Actions Needed	8. Level of risk once actions have been carried out (Can activity go ahead?)
<i>e.g. Other water users – busy harbour with lots of pleasure craft</i>	<i>Participants and other water users</i>	<i>Collision</i>	<i>Likely</i>	<i>Moderate</i>	<i>Harbour circulation pattern on notice board</i>	<i>- Harbour navigation included as part of rower induction - Establish regular meetings with other water user groups</i>	<i>Tolerable</i>
<b>The water environment</b>							
Depth of water	<i>Participants and other water users</i>	<i>Running Aground Drowning</i>	<i>Unlikely</i>	<i>Moderate</i>	<i>General awareness</i>	<i>Seek local knowledge From organisers Life jackets to be worn</i>	<i>Tolerable</i>
Cold water	<i>Participants and other water users</i>	<i>Hypothermia</i>	<i>Unlikely</i>	<i>Moderate</i>	<i>Warm Clothes</i>	<i>Space Blanket</i>	<i>Tolerable</i>
Course; Straight/bendy	<i>Participants and other water users</i>	<i>Collision with other boats, river bank, overhanging trees</i>	<i>Unlikely</i>	<i>Tolerable</i>	<i>Review Course</i>	<i>Seek local knowledge From organisers</i>	<i>Tolerable</i>
Waves/Swell	<i>Participants and other water users</i>	<i>Capsize</i>	<i>Unlikely</i>	<i>Tolerable</i>	<i>General awareness</i>	<i>Review conditions on day of race</i>	<i>Tolerable</i>
Tides/Currents (particularly in narrow areas such as harbour or estuary entrances)	<i>Participants and other water users</i>	<i>Capsize / Collision</i>	<i>Unlikely But local knowledge should be sought</i>	<i>Tolerable</i>	<i>General awareness</i>	<i>Seek local knowledge From organisers</i>	<i>Tolerable</i>
Wash from other boats	<i>Participants and other water users</i>	<i>Capsize / Collision</i>	<i>Unlikely</i>	<i>Tolerable</i>	<i>General awareness</i>	<i>General awareness</i>	<i>Tolerable</i>
<b>The weather</b>							
Wind	<i>Participants and other water users</i>	<i>Collision/ Exhaustion</i>	<i>Unlikely</i>	<i>Tolerable</i>	<i>General awareness</i>	<i>Review conditions on day of row</i>	<i>Tolerable</i>
Cold, heat, fog, ice, snow, storms, lightning	<i>Participants and other water users</i>	<i>Collision/ Exhaustion</i>	<i>Unlikely</i>	<i>Tolerable</i>	<i>General awareness</i>	<i>Review conditions on day of row</i>	<i>Tolerable</i>
The time of year, water temperature	<i>Participants and other water users</i>	<i>Exhaustion/ Hypothermia</i>	<i>Unlikely</i>	<i>Tolerable</i>	<i>General awareness</i>	<i>Wear appropriate clothing – crew and cox</i>	<i>Tolerable</i>
Visibility; e.g. mist, rowing at night	<i>Participants and other water users</i>	<i>Collision</i>	<i>Unlikely</i>	<i>Tolerable</i>	<i>General awareness</i>	<i>Review conditions on day of row</i>	<i>Tolerable</i>
<b>Physical hazards</b>							
Other water users	<i>Participants and other water users</i>	<i>Collision</i>	<i>Likely</i>	<i>Moderate</i>	<i>General awareness</i>	<i>High Vis/ pennant flag on pole</i>	<i>Tolerable</i>
Submerged Objects/Rocks	<i>Participants and other water users</i>	<i>Collision</i>	<i>Unlikely</i>	<i>Tolerable</i>	<i>General awareness</i>	<i>Seek local knowledge From organisers</i>	<i>Tolerable</i>

Sand Bars/Mud Flats	<i>Participants and other water users</i>	<i>Collision</i>	<i>Unlikely</i>	<i>Tolerable</i>	<i>General awareness</i>	<i>Seek local knowledge From organisers</i>	<i>Tolerable</i>
Hazard	Who Might Be Harmed?	How Could Individuals Be Harmed?	Probability of Risk	Current Level of Risk (e.g. trivial, tolerable, moderate, etc)	Existing Precautions? Are These Adequate?	Actions Needed	Level of risk once actions have been carried out (Can activity go ahead?)

Moored boats	<i>Participants and other water users</i>	<i>Collision</i>	<i>Unlikely</i>	<i>Tolerable</i>	<i>General awareness</i>	<i>General awareness</i>	<i>Tolerable</i>
Buoys	<i>Participants and other water users</i>	<i>Collision</i>	<i>Unlikely</i>	<i>Tolerable</i>	<i>General awareness</i>	<i>General awareness</i>	<i>Tolerable</i>
Hazard	Who Might Be Harmed?	How Could Individuals Be Harmed?	Probability of Risk	Current Level of Risk (e.g. trivial, tolerable, moderate, etc)	Existing Precautions? Are These Adequate?	Actions Needed	Level of risk once actions have been carried out (Can activity go ahead?)
	<i>water users</i>						
Launches and Propellers	<i>Participants and other water users</i>	<i>Collision</i>	<i>Unlikely</i>	<i>Tolerable</i>	<i>General awareness</i>	<i>General awareness</i>	<i>Tolerable</i>
<b>Water borne hazards/diseases</b>							
Weils Disease	<i>Participants</i>	<i>Infection</i>	<i>Highly Unlikely</i>	<i>Trivial</i>	<i>General awareness</i>	<i>General awareness</i>	<i>Trivial</i>
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<b>Hazards on the land</b>							
Tripping/slipping	<i>Participants</i>	<i>Impact injury</i>	<i>Likely</i>	<i>Moderate</i>	<i>General awareness</i>	<i>Wear appropriate footwear</i>	<i>Tolerable</i>
Falling	<i>Participants</i>	<i>Impact injury</i>	<i>Likely</i>	<i>Moderate</i>	<i>General awareness</i>	<i>Wear appropriate footwear</i>	<i>Tolerable</i>
Lifting and carrying	<i>Participants</i>	<i>Strain</i>	<i>Likely</i>	<i>Moderate</i>	<i>General awareness</i>	<i>Lift with straight back and bent kness</i>	<i>Tolerable</i>
Land training	<i>Participants</i>	<i>General sport injury</i>	<i>Unlikely</i>	<i>Trivial</i>	<i>General awareness</i>	<i>Work to individual Fitness level</i>	<i>Trivial</i>
Travelling to and from venues	<i>Participants / Other road users</i>	<i>Collision</i>	<i>Unlikely</i>	<i>Tolerable</i>	<i>General awareness</i>	<i>Follow Highway Code</i>	<i>Trivial</i>
Towing boats	<i>Participants / Other road users</i>	<i>Collision</i>	<i>Unlikely</i>	<i>Tolerable</i>	<i>General awareness</i>	<i>Follow Highway Code</i>	<i>Trivial</i>
Fire; storage of petrol for launches	<i>Participants</i>	<i>Fire</i>	<i>Unlikely</i>	<i>Tolerable</i>	<i>General awareness</i>	<i>Use appropriate storage and decanting devices</i>	<i>Trivial</i>
Participants with low level fitness or health problems	<i>Participants</i>	<i>Exhaustion / Heart Attack</i>	<i>Unlikely</i>	<i>Tolerable</i>	<i>General awareness</i>	<i>Be aware of personal Fitness level</i>	<i>Trivial</i>

§	Who Might Be Harmed?	How Could Individuals Be Harmed?	Probability of Risk	Current Level of Risk (e.g. trivial, tolerable, moderate, etc)	Existing Precautions? Are These Adequate?	Actions Needed	Level of risk once actions have been carried out (Can activity go ahead?)
<b>Hazards of behaviour; e.g. Poor coaching practice</b>							
Rowing equipment Poorly maintained Rowlocks and health	Participants/other participants, water issues	Drowning	Likely	Moderate	Kit/equipment check	Check list to be reviewed prior to rowing Continued Training	Tolerable
Cracked or damaged hull	Participants	Drowning	Likely	Moderate	Kit/equipment check	Check list to be reviewed prior to row	Tolerable
Insufficient Buoyancy	Participants	Drowning	Likely	Moderate	Kit/equipment check	Check list to be reviewed prior to row	Tolerable
Bung	Participants	Drowning	Likely	Moderate	Kit/equipment check	Check list to be reviewed prior to row	Tolerable
Steering mechanism	Participants	Drowning	Likely	Moderate	Kit/equipment check	Check list to be reviewed prior to row	Tolerable
Equipment failure	Participants	Drowning	Likely	Moderate	Kit/equipment check	Check list to be reviewed prior to row	Tolerable
Swivels/Rowlocks/Pins	Participants	Drowning	Likely	Moderate	Kit/equipment check	Check list to be reviewed prior to row	Tolerable
Topnuts (where swivels are used)	Participants	Drowning	Likely	Moderate	Kit/equipment check	Check list to be reviewed prior to row	Tolerable
Buttons/Collars (where used)	Participants	Drowning	Likely	Moderate	Kit/equipment check	Check list to be reviewed prior to row	Tolerable
Unsuitable/inappropriate clothing	Participants	Hypothermia	Likely	Moderate	Kit/equipment check	Check list to be reviewed prior to row	Tolerable
Poorly maintained launches and engines	Participants	Drowning/accidental injury	Likely	Moderate	Kit/equipment check	Check list to be reviewed prior to row	Tolerable
<b>The activity itself</b>							
Performing tasks unsuitable for participants	Participants	Personal Injury	Likely	Moderate	Review experience	Continued Assessment	Tolerable
Poor posture/movement patterns	Participants	Personal Injury	Likely	Moderate	Training/instructor	Continued Assessment	Tolerable

and safety requirements							
Lack of awareness of hazards by participants	<i>Participant/other water issues</i>	<i>Drowning</i>	<i>Likely</i>	<i>Moderate</i>	<i>Training</i>	<i>Continued Training</i>	<i>Tolerable</i>
Not educating participants to recognise risks	<i>Participant/other water issues</i>	<i>Drowning</i>	<i>Likely</i>	<i>Moderate</i>	<i>Training</i>	<i>Continued Training</i>	<i>Tolerable</i>
Lack of awareness of hazards by coach	<i>Participant/other water issues</i>	<i>Drowning</i>	<i>Likely</i>	<i>Moderate</i>	<i>Training</i>	<i>Continued Training</i>	<i>Tolerable</i>
Coach: participant ratios that are inappropriate	<i>Participant/other water issues</i>	<i>Exhaustion</i>	<i>Likely</i>	<i>Moderate</i>	<i>Continuous Assessment</i>	<i>Continued Assessment</i>	<i>Tolerable</i>
<b>Potentially harmful situations</b>							
Collision	<i>Participants other water issues</i>	<i>Drowning</i>	<i>Unlikely</i>	<i>Tolerable</i>	<i>Training</i>	<i>Continued Assessment</i>	<i>Tolerable</i>
Swamping	<i>Participants</i>	<i>Drowning</i>	<i>Unlikely</i>	<i>Tolerable</i>	<i>Training</i>	<i>Flotation Devices</i>	<i>Tolerable</i>
Capsizing	<i>Participants</i>	<i>Drowning</i>	<i>Unlikely</i>	<i>Tolerable</i>	<i>Training</i>	<i>Flotation devices/life jackets</i>	<i>Tolerable</i>
Being trapped in boat	<i>Participants</i>	<i>Drowning</i>	<i>Unlikely</i>	<i>Tolerable</i>	<i>Training</i>	<i>Continued Training</i>	<i>Tolerable</i>
Immersion in water/Man Over Board	<i>Participants</i>	<i>Drowning</i>	<i>Unlikely</i>	<i>Tolerable</i>	<i>Training</i>	<i>Training/life jackets</i>	<i>Tolerable</i>
Hypothermia/ heat stroke	<i>Participants</i>	<i>Drowning</i>	<i>Unlikely</i>	<i>Tolerable</i>	<i>Training &amp; various conditions</i>	<i>Review appropriate clothing</i>	<i>Tolerable</i>
<b>Other hazards identified</b>							

<b>Pre Row Check List</b>	<b>Yes</b>	<b>No</b>
Coast Guard informed of row		
Weather forecast reviewed		
Sea shore and tide stack reviewed		
Navigational dangers identified		

Trip log signed by senior mentor		
<b>Check Equipment and boats for wear and damage</b>		
Collars on oars		
Gates and rowlocks		
Pump		
Rudder, pin and retaining clip		
Drainage bung		
Footrests and clips		
Check around the hull for any damage		
Check buoyancy compartments are clear		
<b>Essential Equipment</b>		
Lifejackets for all (150N)		
Warm clothes for the cox		
Water		
Flares (in a watertight container)		
Mobile phone or VHF in waterproof container		
Compass		
<b>Additional Equipment</b>		
Handheld GPS		
Extra bailer		
Space blankets		
RISK ANALYSIS CARRIED OUT BY:	AUTHORISATION TO TAKE BOAT OUT TO SEA: (most senior club member present)	
SIGNED:..... DATE: .....	SIGNED:..... DATE:.....	