

### Risk Assessment Matrix

Severity	Definition
Very High	Death or permanent disability
High	Long term/ serious injury
Medium	Injury requiring medical attention
Low	Injury requiring first aid

Risk Level	Action required
	Extreme risk, requires immediate attention and procedural change by senior staff member
	Requires prompt attention by senior staff member, possible changes to procedures
	Requires a control plan implemented by all members of staff
	Requires all staff to be diligent and stick to procedures

Likelihood	Definition
Very Likely	Could happen at any time
Likely	Could happen from time to time
Unlikely	Rarely happens
Very unlikely	Could happen but probably wont

		Likelihood			
		Very Likely	Likely	Unlikely	Very Unlikely
Severity	Very High				
	High				
	Medium				
	Low				

## Snorkel /Scuba Diving Tour: Tangalooma Wrecks

Aim: To exceed requirements set forth in *The Recreational Diving, Recreational Technical Diving and Snorkelling Code of Practice*, and to review and maintain this as often as possible.

<b>Risk</b>	<b>Severity</b>		<b>Level</b>	<b>Action/Procedures</b>
Drowning/near drowning	V. High	V Unlikely		
Exposure to extreme weather (hypothermia, hyperthermia, sun burn, dehydration)	Medium	Unlikely		3mm and 5mm wetsuits available Shaded canopy on snorkel vessels Cold drinks machine & hot water urn at Tanga Watersports Free sunscreen available to all guests/staff Emergency/survival blankets available on vessels
Anxiety, Panic, over-exertion & cramps	Low	Likely		Guides trained in in-water rescue/ PADI Rescue Divers Guides directly supervising guests with Life-rings Captain provides general supervision with a birds-eye view, with ability to pick up struggling guests
Cuts/Abrasions on shipwrecks	Low/ Medium	Very likely		Wetsuits and gloves provided for protection Guests provided with a safety briefing on how to avoid cuts and warnings about currents (see snorkel briefing guideline)

				First Aid kit available on snorkel vessel Paramedic available for incidents requiring stitches
Collision with other vessels	V. High	V. Unlikely		Snorkel Vessel displays dive flag Skipper + snorkel guides maintaining awareness to moving vessels 6 knot speed limit at wrecks
Trips & falls whilst entering & exiting the water	Low	Unlikely		Stairs provide easy entry & exit access Guests briefed on how and where to enter & exit water safely Guides directly supervising entry & exit
Persons missing/left behind	Medium	Unlikely		A Head count by a least 2 different crew members must be conducted before departing Tanga Watersports and the Wrecks Snorkel Manifest brought on each boat
Jellyfish/ marine stings & bites (blue blubbers most prevalent)	Low	Unlikely		Vinegar available on board to treat jellyfish Wetsuits provide protection Upon arrival to wrecks, and environmental assessment is taken (tour will be cancelled if a high amount of jellyfish are present, or high risk marine life)

### Dive-specific risks

All above procedures are followed in addition to the following:

Risk	Severity	Likelihood	Level	Action/Procedures
Decompression Illness	V. High	V Unlikely		All dive leaders are trained to identify signs & symptoms of DCI (minimum qualification PADI Divemaster) All dive leaders have a valid O2 provider certificate

(Decompression Sickness, Pneumothorax, Emphysema and embolisms)				<p>All dives are planned conservatively in accordance with <i>The Recreational Dive Planner</i> or using a dive computer's manufacture instructions</p> <p>Dive briefings are conducted where divers are told to:</p> <ul style="list-style-type: none"> <li>• Stay well inside no-stop limits</li> <li>• Slowly ascend from every dive</li> <li>• Keep hydrated and don't hesitate to cancel if they don't feel well</li> <li>• Not fly after a dive (12hrs for a single, 24hrs for multiple dives)</li> </ul> <p>Diver recall procedures are in place to ensure a quick evacuation</p> <p>Divers undertaking Entry-level Scuba Courses are required to obtain a medical declaration from a Doctor if they; Answer <i>YES</i> to any question on the medical form or,</p>
Buddy Separation	Low/Medium	Unlikely		<p>Divers are reminded in the briefing that:</p> <ul style="list-style-type: none"> <li>• in the event of separation, they are to look around for less than 1 minute before surfacing safely</li> <li>• they must maintain buddy contact at all times</li> </ul> <p>In addition, they must read and sign the <i>Safe Diving Practises statement of understanding</i> (point 5)</p> <p>A maximum diver:instructor ratio of 4:1</p> <p>All BCD's have an orange Surface Marker Buoy to attract the skipper</p>
Out-of-Air Emergency	V. High	V. Unlikely		<p>Diver must read and sign the <i>Safe Diving Practises statement of understanding</i> point 3</p>

				<p>All diver must be equipped with an Alternate Air Source and a Submersible Pressure Gauge and finish their dive with no less than 50 bar remaining</p> <p>Dive gear is serviced yearly by a technician certified by the specific brand of equipment (Oceanic)</p>
Contaminated Air	Medium	Unlikely		<p>Breathing air is tested every 3 months for traces of oil, CO, CO2 and H2O vapour by a certified air tester</p> <p>Dive guides are trained in how to identify contaminated air from taste/smell</p>
Active Panic Ascent	High	Unlikely		<p>Resort Divers are supervised at a ratio of no more than 4:1 on a day with perfect conditions. This ratio is reduced where environmental conditions and skill level dictates, allowing the instructor to be directly on hand to respond to any problems</p> <p>Certified divers are given a readiness assessment by their dive guide, and if necessary they will be required to complete a swimming pool session prior to diving.</p>
Collision with overhead environments/vessels	Medium/ High	Unlikely		<p>The dive vessel will always display a dive flag, and trace divers' bubbles as they navigate the wrecks. The skipper will be on hand to divert the course of vessels heading toward the divers' bubbles.</p> <p>Only divers with specialised training will be allowed to enter the wrecks overhead environments</p> <p>Dive guides must not surface in the channel between the wrecks and beach (where many vessels anchor), if necessary they must be ready to deploy a surface marker buoy from underwater</p>
Entanglement	Medium	V. Unlikely		<p>All dive guides are required to carry a dive knife on all dives in case of entanglement.</p>

