

## G.E.A.R.S. Jobsite Safety and Environment Analysis (JSEA)

<b>Tasks</b>	<b>Hazards</b>	<b>Consequences</b>	<b>Risk Controls</b>	<b>Persons Responsible</b>
<b>1: Entering/exiting the pool deck area</b>	Slipping	Injury to company employees	<ul style="list-style-type: none"> <li>All team members must wear closed-toed shoes with a good grip.</li> <li>Inform judges and team members of any puddles in the workspace.</li> </ul>	All company employees
	Dropping objects	Injury to company employees	<ul style="list-style-type: none"> <li>Ensure all team equipment is contained and can be comfortably carried to the workstation.</li> </ul>	All company employees
	Lifting strain	Injury to company employees	<ul style="list-style-type: none"> <li>Heavy objects should be carried by multiple people.</li> </ul>	All company members
<b>2: System set up</b>	Getting water on equipment	Damage to equipment	<ul style="list-style-type: none"> <li>Keep all equipment except the ROV and ROV attachments out of the water. Take care to ensure that non-ROV cables do not contact the water.</li> </ul>	ROV Lead / Lifeguard – Caleb
	Tripping over wires	Injury to company employees	<ul style="list-style-type: none"> <li>Keep the ROV tether away from the rest of the setup wires.</li> <li>Lay all the wires flat on the ground when crossing pathways and coil them out of the walkway when there is excess.</li> </ul>	Tether Operator – Paul II
	Environmental threats	Damage to equipment	<ul style="list-style-type: none"> <li>Check the weather before and during an attempted run of the ROV in outdoor pools.</li> </ul>	ROV Lead/Lifeguard - Caleb
<b>3: Power up checks</b>	Shock hazard	Injury to company employees	<ul style="list-style-type: none"> <li>Ensure all wires are properly connected and non-tether wires are clear of the water.</li> </ul>	Copilot - Grady
	Voltage Spikes	Damage to equipment	<ul style="list-style-type: none"> <li>Connect the power supply before turning on the ROV.</li> </ul>	Copilot - Grady

<b>4: Pool side operations</b>	Tether operator slipping or falling into pool	Damage to equipment Injury to company employees	<ul style="list-style-type: none"> <li>• Train the tether operator how to properly stand, coil, and feed during operations.</li> <li>• Always have a trained lifeguard present.</li> <li>• Identify who is not a confident swimmer and advise to stay away from edge of pool.</li> </ul>	Tether Operator – Paul II Lifeguard - Caleb
	Injury from ROV	Injury to company employees	<ul style="list-style-type: none"> <li>• The tether operator should wait 3 seconds after getting confirmation from the driver to interact with the ROV.</li> </ul>	Pilot - Jonathan
<b>5: System breakdown</b>	Slipping	Injury to company employees	<ul style="list-style-type: none"> <li>• All team members must wear closed-toed shoes with a good grip.</li> <li>• Inform judges and team members of any puddles in the workspace.</li> </ul>	All company employees Lifeguard – Caleb
	Dropping objects	Injury to company employees	<ul style="list-style-type: none"> <li>• Ensure all team equipment is contained and can be comfortably carried to the workstation.</li> </ul>	All company employees
	Lifting strain	Injury to company employees	<ul style="list-style-type: none"> <li>• Heavy objects should be carried by multiple people.</li> </ul>	All company employees