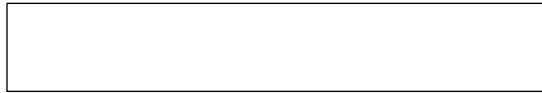


JOB HAZARD ANALYSIS (JHA): Ice Age National Scenic Trail

**Non-Motorized Vessels: IATR-12**



Analysis By: Daniel W. Watson, VIP Coordinator

Approved By: Eric Gabriel, Superintendent

**Required Personal Protective Equipment (PPE):** US Coast Guard Approved Personal Floatation Device (PFD) for each person

Sequence of Job Steps.	Potential Hazards/ Injury Sources.	Safe Action or Procedure.
Non-motorized vessels only (canoes, kayaks, rowboats, etc.)	Operation of motorized vessels (including electric trolling motors) requires MOCC training/certification through the NPS.	Use only non-motorized vessels for volunteer activities to transport personnel/supplies/equipment across waterbodies.
Wear PPE	Accidental drowning	Each operator/passenger must wear a serviceable, US Coast Guard Approved PFD.
Entering/exiting non-motorized vessel	Injury from slips, trips, falls. Property damage from capsizing.	Bring vessel parallel to shoreline to keep hull supported by water (partially beached vessels overturn easily). Keep center of gravity low while moving.
Vessel operation	Injury or property damage from capsizing.	Avoid standing in the vessel. When operating open canoes, kneeling in the bottom greatly increases stability vs. sitting in seats.
Supply & equipment loads	Pinning or crushing injuries. Property loss or damage from capsizing.	Use straps/tie-downs to secure loose supplies from shifting and striking operators/passengers.

Sequence of Job Steps.	Potential Hazards/ Injury Sources.	Safe Action or Procedure.
		<p>Do not overload vessel. Keep weight distribution low inside vessel. Maintain adequate “free-board” above water level. Make multiple trips vs. overloading supplies/ equipment/ passengers.</p>
<p>Accessory items</p>	<p>Stranding due to lost or broken paddles/oars.</p> <p>Loss of personal items, electronics, vehicle keys, etc.</p>	<p>Carry spare paddle/oar.</p> <p>Do not transport phones, wallets, car keys, etc. in vessels unless necessary. Secure in a dry-bag floatation device when necessary.</p>