

WCSS ICE SAFETY PLAN

Name: _____
 Date: _____
 Time: _____

SITE ASSESSMENT

Location (GPS coordinates, Legal Land Description)			
Date (dd/mm/yy)	/	/	Time
Current Temperature			
Temperature variations last 24 hours			
Predicted temperature variations for next 24 hours			
Windchill			
Site Access description (for responder vehicles / equipment)	Poor	Fair	Good Excellent
Ice Faults	Yes	No	
Pressure Ridges	Yes	No	
Cracks	Yes (wet / dry)	No	

SAFETY CONTROLS

Muster Station	
First Aid Station	
Medical Facility	
Local Hospital	
STARS Registration #	
Warm-up Facility	

ICE CUTTING STRATEGY RESTRICTIONS

- Authorized personnel and equipment only on-ice – Safety Chief/Crew Chiefs
- Stationary loads - < 2 hours
- Personnel working within 2 meters of ice slot must be secured with manned or anchored safety lines
- Buddy system only on-ice personnel.
- Certification required – operating boat, chainsaws other as required.
- Speed limits on ice identified and followed.
- No departures until site is secured,
- Other

SAFETY ORIENTATION

Instructors / Crew Chiefs to review with students / crews

- Hazard Assessment for Working on Ice
- Safety controls
- Emergency communications and actions
- Ice Cutting Strategy Restrictions

Verification Crew Briefings

Ice Evaluation Team	
Ice Slotting Team	
Ice Rescue	
Airboat	

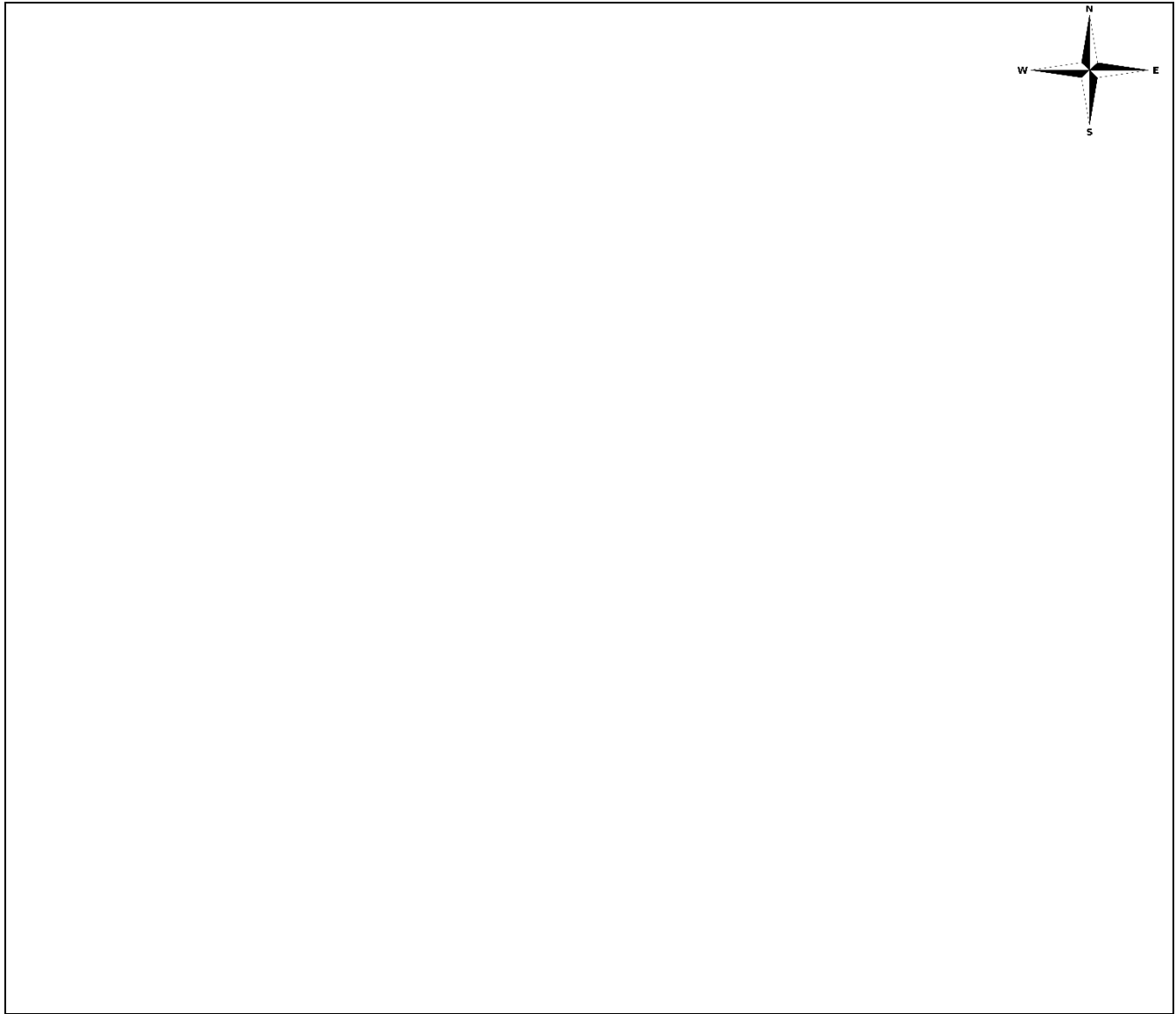
ICE-COVERED WATERCOURSE ASSESSMENT

HOLE #	1	2	3	4	
Ice Thickness (in. / cm)					
Water Depth (in. / cm)					
Current Velocity (km/hr)					
HOLE #	1	2	3	4	m
Ice Thickness (in. / cm)					
Water Depth (in. / cm)					
Current Velocity (km/hr)					
HOLE #	1	2	3	4	m
Ice Thickness (in. / cm)					
Water Depth (in. / cm)					
Current Velocity (km/hr)					
HOLE #	1	2	3	4	m
Ice Thickness (in. / cm)					
Water Depth (in. / cm)					
Current Velocity (km/hr)					

NOTE

Indicate the direction of flow at each augured hole with an arrow on the surface. Once direction of flow and main current has been identified, mark out a pattern for slot location or deflection boards.

SITE DRAWING



Ice Thickness (inches/cm) - Draw in bore hole location & indicate thickness in inches & cm

Ice Quality

- Indicate block location
- Indicate thickness of
 - o white ice: _____
 - o blue ice: _____

$$P = A \times h^2$$

A =

h² =

Effective Ice Thickness: _____

Weight Bearing Capacity: _____

Risk Tolerance: _____

REFERENCE – GENERAL DESCRIPTION OF WORK

Objectives:

	Ensure safety of all workers, observers and others that could be impacted both during and following the work.
	Identify the weight bearing capacity of the ice sheet in the working area.
	Determine suitable risk tolerance for work required.
	Identify a containment and recovery strategy.
	Slot the ice with appropriate equipment.
	Debrief and document follow up requirements and lessons learned.
	Secure the site.

Other:

Typical Sequence of Events:

	Identify Equipment Deployment Site Location
	Hazard assessment and identification of safety controls and zones
	Develop Ice Safety Plan
	Crew orientations and specific hazard identification and safety controls
	Placement of the ice rescue team
	Ice Assessment
	Identify weight bearing capacity and equipment requirements
	Discuss risk tolerance & identify ice removal strategy
	Slot ice and begin recovery operations
	Install boom or dimensional lumber at the perimeter of the spills site to prevent lateral migration
	Debrief
	Identify follow up
	Site clean up
	Secure site and appoint someone to check on barricades

Other:

If this is a spill event; ensure work policies and procedures are in line with the incident action plan and other relevant site-specific spill response plans.

REFERENCE – PERSONAL PROTECTIVE EQUIPMENT

ON-ICE WORKERS – RESCUE TEAM / ICE EVALUATION AND SLOTTING TEAM

- Minimum – PFD; floater jacket preferred.
 - Initial Ice Assessment – harness and rope tended and anchored.
 - Further assessment work, ice slotting, containment and recovery-developed as per initial ice assessment. - Minimum 1m distance from slots
 - Ice awls
 - Whistle
 - Appropriate outer work wear
 - Ice cleats if appropriate
 - Chainsaw safety equipment
 - Hearing Protection-(double protection required when operating equipment)
 - Other _____
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ON-ICE WORKERS – AIR BOATS

- Minimum – personal flotation device (PFD)
 - Hearing and eye protection (double protection required when operating equipment)
 - Warm outer work wear
 - Communications radio or pre-designated signals
 - Ice Cleats
 - Other _____
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OBSERVERS

- Follow company policy linked to PPE requirements.
- Appropriate outer cold weather clothing.
- Stay off ice unless escorted

Other _____
