

Critical Task: Bottom Sampling from Small Vessels (minimum of 2 persons)

Notes:

- This Task Hazard Analysis (THA) is in response to the Canada Labour Code Part II, the Canada Occupational Health and Safety Regulations Part XIX Hazard Prevention Program, and the DFO Occupational Health and Safety Manual.
- It is to assist personnel in identifying foreseeable hazards when Bottom Sampling from Small Vessels (minimum of 2 persons).
- The application of these control measures will assist in preventing occupational accidents.
- This THA is to be reviewed regularly to ensure that all potential hazards have been identified.

Region: Pacific		TASK	TASK HAZARD ANALYSIS	
Branch/Division: Science		Bottom Sampling from Small Vessels (minimum of 2 persons)		
Last revision: August 12, 2020		Developed from <i>Bottom Sampling from Small Boats</i> by A. Koudy's CHS C&A 2003 and updated by R. Hare CHS Pacific 2007. V1.0 developed by A. Schofield.		
Column A - BASIC STEPS 1. Preparation.	Column B - HAZARDS CONSIDER: Health and safety, damage people, property, equipment or program categories of hazards; biological, physic ergonomic, chemical, and psycho-socia a) Lifting. b) Working around water.	/the 5 al,	 Column C – TASK INSTRUCTIONS Define how each step is to be performed safely, ensuring all hazards are addressed. a) Gather equipment. Ensure in good working order. b) Ensure personnel are trained and familiar with operational requirements prior to deploying. c) Follow safe work procedures from THA-SWP Science Pacific Lifting Transporting and Handling Heavy Objects. d) Follow safe work procedures from THA-SWP Science Pacific Working Around Water. e) Follow THA-SWP COVID General Duties, THA-SWP COVID Shared work spaces, and THA-SWP COVID Vehicles and Small Boats 	
2. Stow sampling equipment in boat.	 a) Weight unevenly distributed boat. b) Improperly secured equipm 		 a) Distribute weight evenly. b) Secure equipment with proper tie downs. 	





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	c) Restricted movement and access to operate boat.	 c) Keep deck as clear as possible and away from gear necessary for safe boat operation.
3. Deploy sampling equipment.	 a) Personal injury. b) Falling overboard. c) Drowning. d) Entanglement. e) Slipping on wet/muddy decks. f) Dropping items on feet. 	 a) Wear CSA approved PFDs, safety glasses, gloves and protective footwear. b) Arm samplers cautiously following manufacturer's operating manuals. c) Keep personnel clear of moving parts. d) Ensure long hair, dangling accessories, rings or other jewelry are tied, fitted, covered or otherwise secure to prevent entanglement. e) Retrieve samples cautiously keeping in mind weight distribution of vessel. Secure as necessary. f) Keep working area as clean as possible to avoid buildup of slippery sediments. g) Be accompanied by at least one other person. h) Follow safe work procedures from THA-SWP Science Pacific Deployment of Equipment from Vessels
4. Retrieve sampling equipment.	a) Same as step 3, Deploy sampling equipment.	a) Same as step 3, Deploy sampling equipment.
5. Sub-sample material collected.	 a) Chemical exposure. b) Exposure to hazardous water/sediment samples. 	 a) Follow safe work procedures from THA-SWP Science Pacific Hazardous Materials Handling. b) Wear protective clothing, gloves etc. c) Be aware of area where sample is collected and has potential for hazard e.g. proximity to heavy industry. d) Follow safe work procedures from THA-SWP Science Pacific Sorting and Sampling at Sea.

Science	Branch				
Pacific	Region				
Bottom Sampling from Small Vessels	Subject				
I. PURPOSE					
 Provide guidance on how to minimize risks vessels. This procedure is intended to guid related to bottom sampling from small vess It is the responsibility of all Science Branch public and other employees. As per Canada Labour Code Part II, 126. (Bottom Sampling from Small Vessels is dat This task is done occasionally and if an access The Safe Work Procedures focus on has equipment, contaminated fuel, storage of The Safe Work Procedures for bottom samunder controlled and safe circumstances. 	on how to perform bottom sampling from small vessels properly and safely. a to which the staff may be exposed when they are performing bottom sampling from small be the supervisor's and staff's use of discretion and common sense when making decisions sels. a staff to conduct risk assessments on an ongoing basis to prevent injury to themselves, the 1), employees shall review and comply with these procedures. Ingerous work but it can be done safely. If not done safely the severity of loss will be high. cident occurs, the probability of loss occurring is high. zards. The Critical Task Hazard Analysis Worksheet makes reference to defective of dangerous goods, collisions, capsizing and drowning. mpling will contribute to safe work and will ensure that the work is undertaken only				
II. PROCEDURES					
See above Critical Task Hazard Analysis Worksheet for Basic Steps, Hazards and Control Measures/Task Instructions.					
III. TRAINING REQUIREMENTS					
 Hydrographer Progression Plan if applie Task specific training must be complete All other Science Divisions: 	ng from small vessels is as per the CHS Pacific Training Process and the Multidisciplinary cable. ed and documented as such in the CHS Training Database before task can be undertaken. ed and documented before task can be undertaken.				



IV. PERSONAL PROTECTIVE EQUIPMENT REQUIRED				
PFD, safety glasses, gloves, protective clothing and footwear.				
See Critical Task Analysis Worksheet.				
V. REFERENCES				
Canada Labour Code <u>http://law</u>	vs-lois.justice.gc.ca/eng/acts/L-2/			
Canadian Occupational Health	and Safety Regulations http://laws.justice.gc.ca/eng/regulations/sor-86-304/page-1.html			
	 Canada Centre for Occupational Health and Safety http://www.ccohs.ca/topics/hazards/#ctgt_1-1 			
DFO Occupational Health and S	afety Manual https://intranet.ent.dfo-mpo.ca/ss/en/node/1442			
	raining: <u>http://intra.dfo-mpo.gc.ca/loop-courant/ncr/2012/20120615/20120615_2_e.htm</u>			
Policy on Harassment Prevention	on and Resolution http://www.tbs-sct.gc.ca/pol/doc-eng.aspx?id=26041			
CCG Safe Boating Guide http://www.tc.gc.ca/media/documents/marinesafety/TP-511e.pdf				
VI. APPROVED BY	Dr. Carmel Lowe, Regional Director, Science Branch			
OSH Representative Review by:				
Interviews conducted with:				
Bottom Sampling from Small Vesse	ls V1.0: A. Schofield 29-Feb-2016			
OSH Representative Review by: K.R	. Halcro Jun -2016			
Updated by D. Jackson June-2016 (V2.0)				
Updated by M Archer Nov 20, 2016: CHS Version Archived. Science version covers requirements for all of Science, including CHS.(V3.0)				
Updated by E Oliphant, T Barlow, D Havens & G Roberts on May 10, 2017: Protective footwear added to PPE. (V4.0)				
Subject Matter Expert/Peer Review by R. Loschiavo Dec 10, 2019: no updates made				
OSH Representation Review by T Barlow Jan 23, 2020: updated link for DFO Occupational Health and Safety Manual, (V4.1)				
Subject Matter Expert/Peer Review by R. Loschiavo July 21, 2020: no updates made				
OSH Representation Review by E. Bonner Aug 12, 2020: references added for THA-SWP COVID procedures, (V4.2)				
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Date (mm/dd/yyyy)



Safe Work Procedure

Director:	Dr. Carmel Lowe
Branch:	Science
Region:	Pacific

