Safety Information for Warrenton Aquatic Robotics

The Rays

Contributors:

Created:

Entering/Exiting the Deck Area

TASK	HAZARDS	Controls	
1.Lifting moving ROV, tether and control	 1a. Lift injuries 1b. Trip/Fall hazards 1c. Foot injuries (dropped ROV) 1d. Equipment damage 1e. Electrical shock hazards near water 	1a.1 Proper lifting techniques for ROV, tether and control 1a.2 Share load 1b.1 Clear pool area of obstacles 1b.2, 1c1 Sturdy, closed toe shoes 1c.2 PPE (hard hat, safety glasses and high visibility clothing 1d.1 Movement procedures 1e.1 Ensure GFCI/fuses on power	
Required Training:	Required Personal Protective Equipment (PPE) Safety glasses, hard hat, safety vest, sturdy closed toe shoes, no loose clothing, hair tied back		
On-Deck Operations: Dwayne Wallace. Pilot: Adam Barbic Scientist: Conner Moha			
May/2022			

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Contributors:

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System Set Up

TASK	HAZARDS	Controls
1.Prepare ROV	1a. Open pressure release floods electrical1b. Loose connections	1a.1 Ensure pressure release valve is closed.1b.1 Connections verified before power up
2.Deploy tether	1a. Trip hazard	1a.1 Tether and props laid out per plan
3.Connect Controller	1a. Electrical shock/flash hazards	1a.1 Power supply and controller OFF1a.2 Safety glasses
Required Training:	Required Personal Protective Equipment (PPE) Safety glasses, hard hat, safety vest, sturdy shoes, no loose clothing and hair tied back.	
On-Deck Operations: Dwayne Wallace Pilot: Adam Barbic Scientist: Conner Moha		
May/2022		

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Power Up Checks

TASK	HAZARDS	Controls	
1.Power up	1a. Electrical short/shock1b. Rotating/moving equipment	1a.1 Stand clear procedure1b.1 No loose clothing/hair tied back	
2.Motor Test	1a. Rotating equipment	1a.1 Communication pilot to tether manager per procedure	
3. Gripper Test	1a. Opening/closing gripper (pinch)	1a.1 Communication pilot to tether manager per procedure	
Required Training:	Required Personal Protective Equ	Required Personal Protective Equipment (PPE)	
Startup procedures and communication plan	Safety glasses, hard hats, safety ve	Safety glasses, hard hats, safety vests,	
On-Deck Operations: Dwayne Wallace Pilot: Adam Barbic S	N. C. W.		

Contributors:

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Pool Side Operations

TASK	HAZARDS	Controls
1.Launch/Recover	1a. Lifting1b. Rotating/Moving equipment	1a.1 Design < 15kg 1a.2 Lift training 1b.1 Danger areas marked 1b.2 Procedures defined 1b.3 Communication training tether manager, pilot and assistants
2.Grab/Release props at surface	1a. Pinch/Crush in gripper	1a.1 Communication/safety training
Required Training: Safety/communication procedures	Required Personal Protective Equipment (PPE) Safety glasses, hard hat, safety vest	
On-Deck Operations: Dwayne Wallace Pilot Adam Barbic Scientist: Conner Moha		
May/2022		

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System Breakdown

TASK	HAZARDS	Controls
1. Power Off	1a. Electrical shock	1.a.1 Dry hands 1a.2 Control power/Supply power off
2. Lifting ROV, controller and tether	1a. Lifting strain1b. Foot injuries (dropped components)1c. Equipment damage	1a.1 Components designed < 15kg 1a.2, 1b.1,1c.1 Proper lifting techniques for ROV, controller and tether 1b.2 PPE - sturdy closed toe shoes
Required Training: Lifting and transport.	Required Personal Protective Equipment (PPE) Safety glasses, hard hats, safety vests, sturdy closed toe shoes, no loose clothing and hair tied back.	
On-Deck Operations: Dwayne Wallace. Pilot: Adam Barbic Scie	entist: Conner Moha	
May/2022		

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Created:

May/2022