

Nu	clear Diving Risk Assessm	nent	
Business Name:		ABN:	
Business Address:			
Contact Person:	Phone:	Emai	
	·		
THIS RISK ASSESS	IENT IS APPROVED BY THE PC	BU ON W PROJECT	
Under the Work Health and Safety Regulation (WHS Regulation), a p is prepared before the proposed work starts.	person conducting a busine or un	ndertaking PCBU required to ensu	re that a RISK ASSESSMENT
Full Name:			
Signature:		ritle:	Date:
CL	OR PRI. CIN. L.CO. TRACTOR I	DETAILS	
Client:		SCOPE OF	WORKS
Project Name:			
Project Address:			
Project Manager:			
Contact Phone:			
Date Risk Assessment supplied to Project New York			



RISK MATRIX							
LIKELIHOOD	INSIGNIFICANT	MINOR	MODERATE MA	JOR CATASTROPH			HIERARCHY OF CONTROLS
ALMOST CERTAIN	3 HIGH	3 HIGH		4 4 JTE ACUTE	SCORE	ACTION	Elimination Remove the hazard.
LIKELY	2 MODERATE	3 HIGH	U U U U U U U U U U U U U U U U U U U	4 4 JTE ACUTE	4A ACUTE	DO NOT PROCEED	Substitution Replace the hazard. Isolation
POSSIBLE	1 LOW	2 MODERATE		4 JTE ACUTE	3H HIGH	Rev before work art	Isolate People from the hazard Engineering Isolate the
UNLIKELY	1 LOW	1 LOW		3 Z GH ACU E	MC RATE	Ensure control measures in place.	Activité istrativ e Chang
RARE	1 LOW	1 LOW		3 GH H. 1	1L LOW	Monitor and keep records.	PP
Risk Rating & Required Action:         4A       Stop work. The risk is intolerable, cominate the hazard predesign the activity before proceeding. A Safe Work Method Statement (SWMS) or his er-level authorisatic is required.         3H       Review and approve additional controls in prace and efficiency. Proceed with caution; monitor conditions.         2M       Ensure all nominated controls are in prace and efficiency. Proceed with caution; monitor conditions.         1L       Proceed, following standard operating procedures Monitor and keep records.         Consequence Scale:						Notes on Hierarchy of Controls:         Remember to apply controls in the preferred order shown by the coloured pyramid:         1.       Eliminate         2.       Substitute         3.       Isolate         4.       Engineering         5.       Administrative         6.       PPE	
Consequence		injury/illness)	Project / Ass	Significant regula	pliance / Reputat ator intervention; c		Always document why a lower-order control is accepted if
Catastrophic Major	Fatality or perma Serious injury/illr days)			wn prosecution	tice; major media		elimination or substitution is not reasonably practicable. aligned with Safe Work Australia's Managing the risk of fatigue at
Moderate	Medical-treatmen	nt injury; lost-tim	e > 1 moderate dela	y Minor breach; ad	work (2023) and ISO 45001:2018 clauses 6–8. Minor breach; adverse client comment		
Minor	First-aid only, no	lost time	negligible dela	y Isolated non-con	formance		
Insignificant No injury no schedule impact Deviation caught and corrected on site							



JOB STEP	POTENTIAL HAZARDS	IR	CONTROL MEASURES	RR
SPECIFIC WORK STEPS	HAZARDS THAT MAY ARISE	INITIAL RISK	SPECIFIC MEASURES TO BE PUT IN PLACE TO ELIMINATE OR CONTROL THE RISKS	RESIDUAL RISK
1. Preparation	Radiation exposure, Equipment malfunction	4A	<ul> <li>Conduct comprehensive briefing on procedures</li> <li>Inspect and test all equipment prior to use</li> <li>Ensure all personnel are trained in radioactive materials and ling</li> <li>Limit duration of exposure by planning divest brief adsly</li> <li>Obtain necessary permits and approvals for nuclear area access</li> <li>Verify radiation monitoring equipment functionality.</li> <li>Check for any equipment excalls a faults</li> <li>Coordinate on nuclear faulty personnel for unergency procedures</li> <li>Maintain a satisfictant on high-rational zones</li> <li>Ensure an accessing is clearly visible</li> </ul>	2М
2. Equipment Check	Oxygen tank failure, Branneleak	31	<ul> <li>Regult amate analysis of all equipment</li> <li>Regult amate analysis with backup oxygen supplies</li> <li>Radic one eak detectors to be tested and calibrated</li> <li>Ise only certified and tested nuclear diving equipment</li> <li>Conduct checks using approved checklists</li> <li>Have technical support team on standby</li> <li>Document all equipment inspections</li> <li>Carry spare equipment for critical components</li> <li>Limit the use of potentially faulty equipment</li> <li>Conduct visual inspection for physical damage</li> </ul>	1L
3. Diver Briefing	Miscommunication, Failure to follow procedure	ЗН	<ul> <li>Utilize clear and concise communication protocols</li> <li>Confirm understanding with each team member</li> <li>Appoint a dive supervisor for coordination</li> <li>Conduct drills to reinforce understanding</li> <li>Use visual aids for procedure explanation</li> <li>Ensure communication devices are tested and functional</li> <li>Issue written instructions and emergency contacts</li> <li>Include briefings on new or unexpected scenarios</li> </ul>	1L



JOB STEP	POTENTIAL HAZARDS	IR	CONTROL MEASURES	RR
SPECIFIC WORK STEPS	HAZARDS THAT MAY ARISE	INITIAL RISK	SPECIFIC MEASURES TO BE PUT IN PLACE TO ELIMINATE OR CONTROL THE RISKS	RESIDUAL RISK
			- Reinforce importance of procedure adherence	
			- Debrief after each session for feedback	
4. Entry into Diving Zone	Trip/slip hazards, Improper entry leading to equipment damage	ЗН		1L
5. Descent	Rapid descent, Ld of buoverscontrol	44		2M
6. Underwater Navigation	Getting lost, Radiation hot spots	4A		2M



JOB STEP	POTENTIAL HAZARDS	IR	CONTROL MEASURES	RR
SPECIFIC WORK STEPS	HAZARDS THAT MAY ARISE	INITIAL RISK	SPECIFIC MEASURES TO BE PUT IN PLACE TO ELIMINATE OR CONTROL THE RISKS	RESIDUAL
7. Task Performance	Tool malfunction, Prolonged exposure	ЗН		2M
8. Monitoring and Communication	Signal loss, Delayed response	ЗН		1L
9. Ascent	Decompression sickness, Loss of control	4A		2M



JOB STEP	POTENTIAL HAZARDS	IR	CONTROL MEASURES	RR
SPECIFIC WORK STEPS	HAZARDS THAT MAY ARISE	INITIAL RISK	SPECIFIC MEASURES TO BE PUT IN PLACE TO ELIMINATE OR CONTROL THE RISKS	RESIDUAL RISK
10. Exit from Diving Zone	Slippery surfaces, Equipment entanglement	ЗН		1L
11. Debriefing	Incomplete reporting, Failing to document incidents	2М		1L
12. Equipment Decontamination	Cross-contamination, Chemical burns	4A		2M



JOB STEP	POTENTIAL HAZARDS	IR	CONTROL MEASURES	RR
SPECIFIC WORK STEPS	HAZARDS THAT MAY ARISE	INITIAL RISK	SPECIFIC MEASURES TO BE PUT IN PLACE TO ELIMINATE OR CONTROL THE RISKS	RESIDUAL RISK
13. Health Monitoring	Undetected illness, Delayed symptoms	ЗН		1L
14. Review and Report	Missed safety improvements, meffective procedures	2M		1L
15. Site Security	Unauthorised access, Loss of sensitive information	ЗН		1L



JOB STEP	POTENTIAL HAZARDS	IR	CONTROL MEASURES	RR
SPECIFIC WORK STEPS	HAZARDS THAT MAY ARISE	INITIAL RISK	SPECIFIC MEASURES TO BE PUT IN PLACE TO ELIMINATE OR CONTROL THE RISKS	RESIDUAL RISK
16. Stakeholder Communication	Inaccurate information, Insufficient stakeholder engagement	ЗН		1L



#### **EMERGENCY RESPONSE – CALL 000 FOR EMERGENCIES**

Ensure to have an Emergency Management Plan in place as well as adequate numbers of trained first aid staff with easy access to fully stocked first aid kits, rescue equipment, material safety data sheets, adequate access to emergency communication equipment and fire-fighting equipment suitable for all classes of fire and ignition sources.

RELEVANT LEGISLATION AND CODES OF PRACTICE. DELETE THE LEGISLATIVE REFERENCES ANY STATE AT ARE NOT APPLICABLE						
Queensland & Australian Capital Territory           Work Health and Safety Act 2011           Work Health and Safety Regulations 2011           Legislation QLD: <a href="https://www.worksafe.qld.gov.au/laws-and-compliance/work-health-and-safety-laws">https://www.worksafe.qld.gov.au/laws-and-compliance/work-health-and-safety-laws</a> Codes of Practice QLD: <a href="https://www.worksafe.qld.gov.au/laws-and-compliance/codes-of-practice">https://www.worksafe.qld.gov.au/laws-and-compliance/codes-of-practice</a> Legislation ACT: <a href="https://www.worksafe.act.gov.au/laws-and-compliance/codes-of-practice">https://www.worksafe.act.gov.au/laws-and-compliance/codes-of-practice</a> Codes of Practice ACT: <a href="https://www.worksafe.act.gov.au/laws-and-compliance/codes-of-practice">https://www.worksafe.act.gov.au/laws-and-compliance/codes-of-practice</a>	Victoria         Occupational Health and Safety Action 4         Occupational Health and Safety Action 4         Description 1         Legis and VIC: <a href="https://www.worksafe.vic.gov.au/occupational-health-and-safety-act-and-qulation">https://www.worksafe.vic.gov.au/occupational-health-and-safety-act-and-qulation</a> Quality is         Codes on mactice VIC <a href="https://www.worksafe.vic.gov.au/compliance-codes-and-codes-practice">https://www.worksafe.vic.gov.au/compliance-codes-and-codes-practice</a>					
New South Wales         Work Health and Safety Act 2011         Work Health and Safety Regulations 2017         Legislation NSW: <a href="https://www.safework.nsw.gov.au/legal-obligations/legislati-codes">https://www.safework.nsw.gov.au/legal-obligations/legislati-codes</a> Codes of Practice NSW: <a href="https://www.safework.nsw.gov.au/resource-library/lis">https://www.safework.nsw.gov.au/legal-obligations/legislati-codes</a>	Western Australia Work Health and Safety Act 2020 Work Health and Safety Regulations 2022 Legislation Western Australia: <u>https://www.commerce.wa.gov.au/worksafe/legislation</u> Codes of Practice WA: <u>https://www.commerce.wa.gov.au/worksafe/codes-practice</u>					
Northern Territory         Work Health and Safety (National Uniform Legislation) Act 2011         Work Health and Safety (National Uniform Legislation) Regulation 2011         Legislation NT: <a href="https://worksafe.nt.gov.au/laws-and-compliance/wd">https://worksafe.nt.gov.au/laws-and-compliance/wd</a> place-serve-laws         Codes of Practice NT: <a href="https://worksafe.nt.gov.au/laws-and-compliance/wd">https://worksafe.nt.gov.au/laws-and-compliance/wd</a> place-serve-laws	Safe Work Australia Links Law and Regulation (All States): <u>https://www.safeworkaustralia.gov.au/law-and-regulation</u> Model Codes of Practice: <u>https://www.safeworkaustralia.gov.au/resources-publications/model- codes-of-practice</u> Model Codes of Practice					
South Australia Work Health and Safety Act 2012 (SA) Work Health and Safety Regulations 2012 (SA) Legislation for SA: <u>https://www.safework.sa.gov.au/resources/legislation</u> Codes of Practice for SA: <u>https://www.safework.sa.gov.au/work_aces/codes-of-practice#COPs</u>	<ul> <li>Model codes of Practice</li> <li>Managing noise and preventing hearing loss at work</li> <li>Confined spaces</li> <li>Labelling of workplace hazardous chemicals</li> <li>Managing risks of hazardous chemicals in the workplace</li> <li>Welding processes</li> </ul>					
Tasmania         Work Health and Safety Act 2012         Work Health and Safety (Transitional and Consequential Provisions) Act 2012         Work Health and Safety Regulations 2012         Work Health and Safety (Transitional) Regulations 2012         Legislation for TAS: <a href="https://worksafe.tas.gov.au/topics/laws-and-compliance/acts-and-regulations">https://worksafe.tas.gov.au/topics/laws-and-compliance/acts-and-regulations</a> Codes of Practice for TAS: <a href="https://worksafe.tas.gov.au/topics/laws-and-compliance/codes-of-practice">https://worksafe.tas.gov.au/topics/laws-and-compliance/codes-of-practice</a>	<ul> <li>Weiding processes</li> <li>First aid in the workplace</li> <li>Managing the risk of falls at workplaces</li> <li>Hazardous manual tasks</li> <li>Managing the risk of falls in housing construction</li> <li>Managing electrical risks in the workplace</li> <li>Demolition work</li> <li>Excavation work</li> <li>Work health and safety consultation, cooperation and coordination</li> </ul>					
Details of permits, licenses or access required by regulatory bodies (add or delete as required): - Permits from local council - Authorisation to commence work	<ul> <li>Work nearly constrained and coordination</li> <li>Managing the work environment and facilities</li> <li>How to manage work health and safety risks</li> <li>Managing risks of plant in the workplace</li> <li>Construction work</li> </ul>					