

Under	rwater Blasting. Risk Asses	ssment	
Business Name:		ABN:	
Business Address:			
Contact Person:	Phone:	Eme	
THIS RISK ASSESSI	MENT IS APPROVED BY THE PC	BU OF Y PROJECT	
Under the Work Health and Safety Regulation (WHS Regulation), a is prepared before the proposed work starts.	person conducting a busine or un	ndertaking PCBU required to ensu	ire that a RISK ASSESSMENT
Full Name:			
Signature:		ritle:	Date:
CL		DETAILS	
Client:		SCOPE OF	WORKS
Project Name:			
Project Address:			
Project Manager:			
Contact Phone:			
Date Risk Assessment supplied to Project Market .			



				F	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 higher-level authorisation is required. 3H Review and approve additional controls in course task parts. Senior supervisor sign-off needed. 2M Ensure all nominated controls are imprace and efficience of which 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		Always document why a lower-order control is accepted if	
Catastrophic Major	Fatality or perma Serious injury/illr days)			wn prosecution	elimination or		elimination or substitution is not reasonably practicable. aligned with Safe Work Australia's Managing the risk of fatigue	
Moderate	Medical-treatmen	nt injury; lost-tim	e > 1 moderate dela	y Minor breach; ad	Vinor breach; adverse client comment		work (2023) and ISO 45001:2018 clauses 6–8.	
Minor	First-aid only, no	lost time	negligible dela	y Isolated non-con	formance			
			no schedule	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. Site Assessment	Poor visibility, Marine wildlife	ЗН	 Conduct a site survey with experienced divers. Utilise sonar technology for underwater mapping. Coordinate with marine biologists to asser wildlife premice. Ensure clear communication protocols are in magnet. Ose marking buoys to define work boundaries. Plan work schedules to mipping environmental uppact. Use underwater lighting system. Implement environments in ugally premissible Liais with low environmental agencies - Schedule work during times of reduced wildlife activity. Employ operience divers with knowledge of local conditions. 	2М
2. Equipment Preparation	Equipment failure, Instructure maintenance		 Regula y invect and aintain all equipment according to manufacturer specifications. Informore-blan equipment tests. Ensurationare parts are readily available. Ionduct training on equipment handling and troubleshooting. Use equipment with a proven track record in similar conditions. Maintain an equipment logbook for all inspections and repairs. Use personal protective equipment appropriate for underwater use. Implement a preventative maintenance schedule. Ensure all gauges and instruments are calibrated. Use equipment from reputable suppliers only. Conduct a risk assessment specific to equipment safety. 	1L
3. Blasting Material Handling	Improper handling, Exposure to explosive materials	4A	 Train staff in safe handling practices for explosive materials. Use certified containers for explosive materials. Implement strict inventory control measures. Maintain material safety data sheets for all substances. Segregate incompatible materials during storage and transport. Follow legal guidelines for explosive materials handling. Regularly audit handling procedures for compliance. 	2M



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			- Employ specialised personnel for transport and handling Carry out rigorous checks before and after transport.	
			- Ensure secure and dry storage conditions.	
			- Supervise loading and unloading procedure	
			- Establish emergency response plans for no rial spiller mishandling.	
4. Dive Team Briefing	Miscommunication, Inadequate training	ЗН		1L
5. Explosive Placement	Unintended detonation, Poor alignment	4A		2M
6. Surface Safety Zone Establishment	Unauthorized access, Collisions	ЗН		1L



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7. Environmental Monitoring	Pollution, Ecosystem disruption	ЗН		2M
8. Communication Protocols Check	Signal failure, Miscommunication	ЗН		1L



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9. Detonation Preparation	Unauthorised access, Premature detonation	4A		2М
10. Final Safety Checks	Oversights, Completency	зн		1L
11. Evacuation Drill	Panic, Inadequate response	ЗН		1L



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12. Pre-Detonation Standby	Nervousness, Last-minute technical issues	ЗН		1L
13. Detonation	Faulty explosives, Communication failure	4A		2M
14. Post-Detonation Inspection	Unexploded materials, Underwater hazards	3Н		1L



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15. Debriefing and Reporting	Misreporting, Overlooking insues	31-		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 LEGISL	LATIVE 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: https://www.worksafe.gld.gov.au/laws-and-compliance/work-health-and-safety-laws Codes of Practice QLD: https://www.worksafe.gld.gov.au/laws-and-compliance/codes-of-practice Legislation ACT: https://www.worksafe.act.gov.au/laws-and-compliance/codes-of-practice Codes of Practice ACT: https://www.worksafe.act.gov.au/laws-and-compliance/codes-of-practice	Victoria Occupational Health an exafety Actnov4 Occupational Health and exafety or gulations 2017 Legismon VIC: <u>https://www.worksafe.vic.gov.au/occupational-health-and-safety-act-and-outlates</u> Codes on exactice VIC <u>extps://www.worksafe.vic.gov.au/compliance-codes-and-codes-practice</u>					
New South Wales Work Health and Safety Act 2011 Work Health and Safety Regulations 2017 Legislation NSW: https://www.safework.nsw.gov.au/legal-obligations/legislati-codes of Practice NSW: https://www.safework.nsw.gov.au/legal-obligations/legislati-codes of Practice NSW: https://www.safework.nsw.gov.au/legal-obligations/legislati-codes of Practice NSW: https://www.safework.nsw.gov.au/resource-library/lis https://www.safework.nsw.gov.gov https://www.safework.nsw.gov https://www https://www.safework.nsw.gov https://www https://www https://www https://www	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 2015 Legislation NT: <u>https://worksafe.nt.gov.au/laws-and-compliance/weblace-set-laws</u> Codes of Practice NT: <u>https://worksafe.nt.gov.au/formations/incerveblace-set-laws</u> Codes of Practice NT: <u>https://worksafe.nt.gov.au/formations/incerveblace-set-laws</u>	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>					
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/legulation</u> Codes of Practice for SA: <u>https://www.safework.sa.gov.au/work_dces/codes-of-practice#COPs</u>	Model Codes of Practice - Managing noise and preventing hearing loss at work - Confined spaces - Labelling of workplace hazardous chemicals - Managing risks of hazardous chemicals in the workplace - Welding processes					
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: https://worksafe.tas.gov.au/topics/laws-and-compliance/acts-and-regulations Codes of Practice for TAS: https://worksafe.tas.gov.au/topics/laws-and-compliance/codes-of-practice	 First aid in the workplace Managing the risk of falls at workplaces Hazardous manual tasks Managing the risk of falls in housing construction Managing electrical risks in the workplace Demolition work Excavation work Work health and safety consultation, cooperation and coordination 					
Details of permits, licenses or access required by regulatory bodies (add or delete as required): - Permits from local council - Authorisation to commence work - Any required documents.	 Managing the work environment and facilities How to manage work health and safety risks Managing risks of plant in the workplace Construction work 					