

Tailin	gs Dam Works Risk Asses	sment	
Business Name:		ABN:	
Business Address:			
Contact Person:	Phone:	Emai	
	·		
THIS RISK ASSESS	IENT IS APPROVED BY THE PCI	BU ON Y 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			



				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 his er-level authorisatic is required. 3H Review and approve additional corrols to come task parts. Senior supervisor sign-off needed. 2M Ensure all nominated controls are in prace and effective. Proceed with caution; monitor conditions. 1L Proceed, following standard operating procedurer wonitor 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		atality or permanent total disability project shutdowr serious injury/illness (hospital > 5 critical delay		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	lverse client comn	nent	work (2023) and ISO 45001:2018 clauses 6–8.
Minor	First-aid only, no	lost time	negligible dela	y Isolated non-con	formance		
		injury 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. Site Inspection	uneven terrain, wildlife	ЗН	Conduct a pre-inspection briefing to identify potential azards. Ensure all workers have up-to-date inoculation on potential wildlife encounters. Use GPS and mapping tools to navigate that te safely. Wear appropriate personal protective equipment/Potential does and long-sleeve clothing. Establish a buddy system to asure no worker is clated. Carry first aid kits and communention devices for encrements. Use drones to sure protective a where feasible. Limit wildlife theraction by proving the site'renewironmental management plan. Secure fencing around stragerous areas or restrict access. Ensure a equate using for areas inspected during low light conditions.	2M
2. Equipment Mobilisation	heavy machinery more an ual handling injuries		Use trained on rations in nandle all machinery. In relop in traffic management plan to control the movement of machinery. Conduct mular maintenance checks to ensure all equipment is in good working order. It is mechanical aids for lifting operations where possible. Ensure workers are trained in manual handling techniques to prevent injuries. Clearly mark pathways for equipment to minimise pedestrian interactions. Utilise spotters when reversing or manoeuvring large vehicles. Use signage and barriers to delineate work zones. Implement a tag-out system to control equipment usage. Provide high-visibility clothing for all personnel in the vicinity of moving equipment. Ensure proper loading and unloading techniques are followed.	2M
3. Excavation	collapse of excavation, dust inhalation	4A	Conduct geological surveys to assess ground stability. Shore up sides of excavations where necessary to prevent collapse. Ensure that a competent person supervises all excavation activities. Use water spray systems to manage dust levels. Implement an exclusion zone around excavation sites to prevent unauthorized access. Conduct regular monitoring of air quality in the work area. Provide respiratory protective equipment to workers if required.	ЗН



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			Utilise safety vault protection for deep excavations.	
			Provide adequate training on evacuation procedures in case of collapse.	
			Use demarcated areas for placing excavated manuals securely.	
4. Tailings Disposal	tailings dust exposure, leakage of hazardous materials	ЗН		2M
5. Dam Construction	mechanical failures, water 2, interaction	4A		3H
6. Electrical Installation	electric shock, fire hazards	4A		2M



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7. Pipework Installations	pipe rupture, chemical exposure			2M
8. Safety System Testing	system malfunction, false alarms	ЗН		1L



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9. Environmental Monitoring	data inaccuracy, failure to detect hazards	ЗН		2M
10. Waste Management	contamination, inadequate waste disposal	ЗН		2M
11. Emergency Preparedness	inadequate response, evacuation delays	4A		2M



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12. Worker Training	insufficient skill level, lack of awarenes			1L
12. WORKER FRAINING	insumcient skill level, lack of awarenes	36.		IL.
13. Water Management flooding, insufficien	flooding, insufficient water quality	4A		2M



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14. Community Engagement	community disruption, negative public perception	ЗН		1L
15. Project Handover	unexpected issues, communication breakdown	2М		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.

LEGISLATIVE F	REFERENCES
RELEVANT LEGISLATION AND CODES OF PRACTICE. DELETE THE LEG	GISLATIVE 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: <u>https://www.worksafe.qld.gov.au/laws-and-compliance/work-health-and-safety-laws</u> Codes of Practice QLD: <u>https://www.worksafe.gld.gov.au/laws-and-compliance/codes-of-practice</u> Legislation ACT: <u>https://www.worksafe.act.gov.au/laws-and-compliance/acts-and-regulations</u> Codes of Practice ACT: <u>https://www.worksafe.act.gov.au/laws-and-compliance/codes-of-practice</u>	Victoria Octopational Health and Safety Action 04 Octopational Health and Safety Action 04 Octopational Health and Safety Supervised Safety Software Sof
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/legislative Codes of Practice NSW: https://www.safework.nsw.gov.au/legal-obligations/legislative	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: <u>https://worksafe.nt.gov.au/laws-and-compliance/worplace-serve-laws</u> Codes of Practice NT: <u>https://worksafe.nt.gov.au/f</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_saces/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/codes-of-practice Codes of Practice for TAS:	 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
Details of permits, licenses or access required by regulatory bodies (add or delete as required): - Permits from local council - Authorisation to commence work	 Work health and safety consultation, cooperation and coordination Managing the work environment and facilities How to manage work health and safety risks Managing risks of plant in the workplace Construction work

- Any required documents.