

Use Of High To	orque Drilling Machinery Ri	isk Assessment	
Business Name:		ABN:	
Business Address:			
Contact Person:	Phone:	Emai	
THIS RISK ASSESSI	MENT IS APPROVED BY THE PC	BU ON Y PROJECT	
Under the Work Health and Safety Regulation (WHS Regulation), a is prepared before the proposed work starts.	person conducting a busine or ur	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 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	
<ul> <li>Risk Rating &amp; Required Action:</li> <li>4A Stop work. The risk is intolerable, cominate the hazard predesign the activity before proceeding. A Safe Work Method Statement (SWMS) or hit er-level authorisatic is required.</li> <li>3H Review and approve additional corrols in prace and efficience. Proceed with caution; monitor conditions.</li> <li>1L Proceed, following standard operating procedures Monitor and keep records.</li> <li>Consequence Scale:</li> </ul>							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	Minor 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. Preparation	Incorrect PPE use, Inadequate training	ЗН	<ul> <li>Conduct a toolbox meeting to outline work procedures</li> <li>Ensure all workers wear appropriate PPE surfaces gloves and goggles</li> <li>Provide training sessions on machinery u</li> <li>Display safety procedures poster at site</li> <li>Conduct a pre-operational cleck of the machine</li> <li>Designate a supervisor to oversee operations</li> <li>Ensure clear constants on procedures are established</li> <li>Verify all proponel unders and the efflorement of process</li> <li>Maint in training reconstant update regiantly</li> <li>Ensure is memery and procedures are in place</li> </ul>	2M
2. Inspection of Equipment	Equipment malfunction, Electrical hazards	31	<ul> <li>Condut vision inspersion of the drilling machinery</li> <li>bleck in rany stores of wear and tear</li> <li>Ensurprefeterical connections are secure</li> <li>enform regular maintenance as per manufacturer's guidelines</li> <li>Isolate and tag out defective equipment</li> <li>Use a checklist for thorough inspection</li> <li>Ensure equipment is suitable for the task</li> <li>Keep maintenance records up to date</li> <li>Ensure all power tools have updated tags</li> <li>Provide non-conductive tools for adjustments</li> </ul>	2М
3. Setting Up Work Area	Tripping hazards, Inadequate ventilation	ЗН	<ul> <li>Clear work area of debris prior to setup</li> <li>Mark areas where machinery will be in operation</li> <li>Set up adequate barriers around the work area</li> <li>Ensure proper ventilation through exhaust fans</li> <li>Cut off access to non-essential personnel</li> <li>Maintain clear exits</li> <li>Monitor air quality in enclosed spaces</li> <li>Ensure lighting is sufficient for visibility</li> </ul>	2M



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			- Reassess the area regularly during operation	
			- Use slip-resistant mats around the area	
4. Machine Operation	Overexertion, Noise exposure	ЗН		1L
5. Drilling in Operation	Flying debris, High prque stress	44		2M
6. Completing the Task	Incorrect shutdown, Residual power	ЗН		1L

Version 2.5



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7. Clean-Up	Slips from fluid, Handling sharp metal debris	ЗН		2М
8. Machine Maintenance	Chemical exposure injugate of a maintenance	вн		2M
9. Storage of Equipment	Falling objects, Insecure equipment	ЗН		1L



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10. Emergency Procedures	Response delays, Improper use of first- aid	4A		2M
11. Waste Management	Improper disposal, Environmental contamination	ЗН		1L
12. Post-Operation Review	Inadequate reporting, Missed hazards	ЗН		2М

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13. Team Training Updates	Outdated procedures, Skill degradation	ЗН		1L
14. Safety Audits	Non-compliance, Overld et al.	ЗН		1L
15. Communication Protocols	Information delays, Miscommunication	ЗН		1L



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16. Fatigue Management	Reduced alertness, Accidents due to fatigue	ЗН		1L
17. Incident Response	Delayed response, Mismanagement of incident	4A		2М
18. Supplier and Contractor Management	Substandard materials, Non-compliance	ЗН		1L

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#### **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 REFERENCES								
RELEVANT LEGISLATION AND CODES OF PRACTICE. DELETE THE LEGISL	ATIVE 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.qld.gov.au/laws-and-compliance/work-health-and-safety-laws Codes of Practice QLD: https://www.worksafe.qld.gov.au/laws-and-compliance/codes-of-practice Legislation ACT: https://www.worksafe.act.gov.au/laws-and-compliance/acts-and-regulations Codes of Practice ACT: https://www.worksafe.act.gov.au/laws-and-compliance/codes-of-practice	Victoria Occupational Health au Safety Act 204 Occupational Health and afety or gulations 2017 Legis from VIC: https://www.worksafe.vic.gov.au/occupational-health-and-safety-act-and- oular occupational-health-and-safety-act-and- oular occupational-health-and-safety-act-and- oular occupational-health-and-safety-act-and- oular occupational-health-and-safety-act-and- oular occupational-health-and-safety-act-and- oular occupational-health-and-safety-act-and- oular occupational-health-and-safety-act-and- oular occupational-health-and-safety-act-and- oular occupational-health-and-safety-act-and- occupational-health-act-act-act-act-act-act-act-act-act-act							
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/legislative">https://www.safework.nsw.gov.au/legal-obligations/legislative</a> Codes of Practice NSW: <a href="https://www.safework.nsw.gov.au/resource-library/lis">https://www.safework.nsw.gov.au/legal-obligations/legislative</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 2015 Legislation NT: <u>https://worksafe.nt.gov.au/laws-and-compliance/workplace-serve-laws</u> Codes of Practice NT: <u>https://worksafe.nt.gov.au/formediateserve-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-</u> <u>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/legislation</u> Codes of Practice for SA: <u>https://www.safework.sa.gov.au/work_aces/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: <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>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 - Any required documents.	<ul> <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>							