

| Su | rface Mining Risk Assessm | nent | |
|---|----------------------------------|---|---------------------------|
| Business Name: | | ABN: | |
| Business Address: | | | |
| Contact Person: | Phone: | Ema. | |
| | | | |
| THIS RISK ASSESSI | MENT IS APPROVED BY THE PC | BU ON W PROJECT | |
| Under the Work Health and Safety Regulation (WHS Regulation), a pis prepared before the proposed work starts. | person conducting a busine or un | ndertaking PCBL ¹ required to ensu | re that a RISK ASSESSMENT |
| Full Name: | | | |
| Signature: | | ritle: | Date: |
| | | | |
| CL | OR PRICEIN LCO. TRACTOR I | DETAILS | |
| Client: | | SCOPE OF | WORKS |
| Project Name: | | | |
| Project Address: | | | |
| Project Manager: | | | |
| Contact Phone: | | | |
| Date Risk Assessment supplied to Project Iv | | | |



RISK MATRIX LIKELIHOOD INSIGNIFICANT MINOR MODERATE MAJOR CATASTROPHIC HIERARCHY OF CONTROLS SCORE ACTION Elimination ALMOST 3 HIGH 3 HIGH 4 4 ACUTE ACUTE ACUTE **CERTAIN** Remove the hazard. Substitution 4 4 DO NOT Replace the hazard. LIKELY **MODERATE** HIGH HIGH ACUTE ACUTE ACUTE ROCEED Isolation Isolate People from the hazard 2 3 4 3H Rev before POSSIBLE MODERATE ACUTE ACUTE LOW HIGH HIGH. work Engineering Isolate the l/Acchanich. Ensure control 2 3 2M istrativ UNLIKELY measures in LOW LOW MODERATE HIGH ACU RATE е place. Chang 2 MODERATE 3 HIGH 1L Monitor and RARE LOW LOW LOW keep records.

Risk Rating & Required Action:

| 4A | Stop work. The risk is intolerable, | minate the hazard | redesign the activity before proceeding. A Safe Work |
|----|---------------------------------------|------------------------|--|
| | Method Statement (SWMS) or hime | er-level authorisation | is required. |
| 3H | Review and approve additional c | role 'ask | arts. 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 | ig procedure //oni | itor and keep records. |

Consequence Scale:

| Consequence | People (injury/illness) | Project / Assets | Compliance / Reputation |
|---------------|---|--------------------|--|
| Catastrophic | Fatality or permanent total disability | project shutdown | Significant regulator intervention; criminal prosecution |
| Major | Serious injury/illness (hospital > 5 days) | critical delay | Improvement notice; major media coverage |
| Moderate | Medical-treatment injury; lost-time > 1 day | moderate delay | Minor breach; adverse client comment |
| Minor | First-aid only, no lost time | negligible delay | Isolated non-conformance |
| Insignificant | No injury | no schedule impact | Deviation caught and corrected on site |

Notes on Hierarchy of Controls:

Remember to apply controls in the preferred order shown by the coloured pyramid:

- 1. Eliminate
- Substitute
- 3. Isolate
- 4. Engineering
- 5. Administrative
- 6. PPE

Always document **why** a lower-order control is accepted if elimination or substitution is not reasonably practicable.

aligned with Safe Work Australia's Managing the risk of fatigue at work (2023) and ISO 45001:2018 clauses 6–8.



| 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 Preparation | Uneven terrain, Poor visibility | 3H | - Conduct site survey to identify hazards Provide training on terrain navigation Use high-visibility clothing and markings Develop a site-specific safety plan Ensure proper lighting around the site Use barriers to avoid dangerous areas Implement a burnesystem for remote areas Regularly it nect and man ain sale requirement Contest risk communication briefings a workers Installativex minuses to improve visibility at blind spots. | 2M |
| 2. Drilling Operations | Noise exposure, Equip | | Use he ringe otection levices. Londuc regular naintenance on drilling equipment. Impressor a permit-to-work system for maintenance tasks. Lorovide training on proper equipment use. Establish an equipment failure response plan. Implement noise monitoring programs. Ensure emergency shut-off procedures are known and available. Use signage to warn of high-noise areas. Limit exposure times to noisy environments. Use vibration-damping platforms to reduce equipment stress. | ЗН |
| 3. Blasting Process | Explosive handling, Airborne particles | 4A | Only allow certified personnel to handle explosives. Conduct blasts during times with minimal site activity. Use dust suppression methods like water spray. Develop an exclusion zone around the blast area. Monitor weather conditions to plan safe blasts. Conduct pre-blast safety checks. Provide respiratory protection for workers. Use remote detonation devices to maintain distance. | 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 |
| | | | - Implement a communication protocol for all clear signals. | |
| | | | - Analyse blast patterns to minimise debris ejection. | |
| 4. Material Handling | Manual handling injuries, Vehicle collisions | 3H | | 2M |
| 5. Excavation | Cave-ins, Falling oris | 4A | | 3Н |
| 6. Transport | Traffic accidents, Load shifts | 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 |
| 7. Crushing Operations | Machinery entanglement, Dust exposure | 4A | | 2M |
| 8. Processing | Chemical exposure spills | JA | | 2M |
| 9. Water Management | Flooding, Water contamination | ЗН | | 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. Tailings Management | Dam failure, Dust generation | 4A | | 2M |
| 11. Maintenance Activities | Equipment malfunctions, Slip and fall injuries | ЗН | | 2M |
| 12. Decommissioning | Asbestos exposure, Uncontrolled release of hazardous materials | 4A | | 3Н |



| 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. Emergency Response Planning | Inefficient evacuation, Unclear communication | ЗН | | 2M |
| 14. Waste Management | Chemical spills, Inadequate waste segregation | 3H | | 2M |
| 15. Environmental Monitoring | Non-compliance with environmental standards, Ecosystem damage | 3H | | 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 |
| 16. Power Generation and Use | Electrocution, Power outages | | | 1 2M |
| 17. Security | Unauthorised access, Theft | ЗН | | 1L |



9

| 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 |
| 18. Camp and Living Facilities Management | Inadequate hygiene, Overcrowding | 2M | | 1L |
| 19. Community Engagement | Displacement, Cultural | 31 | | 2M |
| 20. Demobilisation | Damage to local infrastructure, Environmental degradation | 4A | | 1 3H |



| JOB STEP | POTENTIAL HAZARDS | IR | CONTROL MEASURES | RR |
|---------------------|------------------------|----|--|------------------|
| SPECIFIC WORK STEPS | HAZARDS THAT MAY ARISE | | SPECIFIC MEASURES TO BE PUT IN PLACE TO ELIMINATE OR CONTROL THE RISKS | RESIDUAL RISK |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |



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 LEGISLATIVE REFERENCES. ANY STATE OF AT ARE NOT APPLICABLE.

Queensland & Australian Capital Territory

Work Health and Safety Act 2011

Work Health and Safety Regulations 2011

 $\underline{\text{Legislation QLD:}} \ \underline{\text{https://www.worksafe.qld.gov.au/laws-and-compliance/work-health-and-safety-laws}}$

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

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/legislations/

Codes of Practice NSW: https://www.safework.nsw.gov.au/resource-library/lis > odes-oi racti

Northern Territory

Work Health and Safety (National Uniform Legislation) Act 2011

Work Health and Safety (National Uniform Legislation) Regulation 2011

Codes of Practice NT: https://worksafe.nt.gov.au/f

South Australia

Work Health and Safety Act 2012 (SA)

Work Health and Safety Regulations 2012 (SA)

Legislation for SA: https://www.safework.sa.gov.au/resources/le_lation

Codes of Practice for SA: https://www.safework.sa.gov.au/wor aces/codes-of-practice#COPs

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

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.

Victoria

Occupational Health at Safety Act 34

Occupational Health and afety gulations 2017

Legis on VIC: https://www.wsafe.vic.gov.au/occupational-health-and-safety-act-and-

gulat

des on actice VI autros://www.worksafe.vic.gov.au/compliance-codes-and-codes-practice

Western Australia

Work Health and Safety Act 2020

Work Health and Safety Regulations 2022

Legislation Western Australia: https://www.commerce.wa.gov.au/worksafe/legislation

Codes of Practice WA: https://www.commerce.wa.gov.au/worksafe/codes-practice

Safe Work Australia Links

Law and Regulation (All States): https://www.safeworkaustralia.gov.au/law-and-regulation Model Codes of Practice: https://www.safeworkaustralia.gov.au/resources-publications/model-codes-of-practice

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
- 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
- Managing the work environment and facilities
- How to manage work health and safety risks
- Managing risks of plant in the workplace
- Construction work