



Underground Mining Operations a	and Ventilation SAFE WO	RK METHOD STATEMENT (S	WMS)
TASK OR ACTIVIT	Y: Underground Mining Operation	ons and Ventilation	
Business Name:		ABN:	SWMS#
Business Address:			
Contact Person:	Phone:	E ail:	
THIS SAFE WORK METHOD	STATEMENT IS APPROVED BY	THE PCL OF THE ROJECT	
Under the Work Health and Safety Regulation (WHS Regulation), a person conduct the proposed work starts.	cting a business or undo (PC 1) is	required to en that a safe work method s	statement (SWMS) is prepared before
Full Name:			
Signature:		Title:	Date:
Details of the person(s) responsible for ensuring implementation, monitoring	poliance the VMS a vell as review	s and modifications of the SWMS.	
Full Name:		Title:	Phone:
ALL PERSONNEL PARTICIPATING IN ANY ACTIVITY ON THIS 5 MS M HAVE THE FOLLOWING COMMUNICATED	NAL OF ALL RELEVANT PERSONNI EVELOPMENT AND APPROVAL OF	EL WHO HAVE BEEN CONSULTED AND C THIS SWMS	OMMUNICATED TO IN THE
Safety meetings or toolbox talks will be scheded in accomply with gislative requirements to first identify any site hazards, so complying those hazards and then to further take steps to either eliminate or continuous each hazard.			
If an incident or a near miss occurs, all work must sto, an ately. Depending on the severity of the incident, a meeting will be called with all workers to amend the SWMS if required. The meeting may also be an educational opportunity.			
Any changes made to the SWMS after an incident or a near miss must be approved by the Person Conducting Business or Undertaking and communicated to all relevant personnel.			
The SWMS must be kept and be available for inspection at least until the work is completed. Where a SWMS is revised, all versions should be kept. If a notifiable incident occurs in relation to which the SWMS relates, then the SWMS must be kept for at least two years from the occurrence of the notifiable incident.			

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CLIENT OR PRINCIPAL	CONTRACTOR DETAILS
Client:	SCOPE OF WORKS
Project Name:	
Project Address:	
Project Manager:	
Contact Phone:	
Date SWMS supplied to Project Manager:	
ANY HIGH-RISK CONSTRUCTOR	ON WO K BEIN O KRIED OUT
☐ involves a risk of a person falling more than 2 meters	☐ is carried out on or near pressurised gas mains or piping
☐ is carried out on a telecommunication tower	carried out on or near chemical, fuel or refrigerant lines
☐ involves demolition of an element of a structure that is load-bearing	☐ is carried out on or near energised electrical installations or services
☐ involves demolition of an element related to the physical integ. ✓ of aucture	☐ is carried out in an area that may have a contaminated or flammable atmosphere
☐ involves, or is likely to involve, disturbing asb	☐ involves tilt-up or precast concrete
☐ involves structural alteration or repair that — quires term — ov sup — rt to prevent collapse	☐ is carried out on, in or adjacent to a road, railway, shipping lane or other traffic corridor
is carried out in or near a confined space	☐ is carried out in an area of a workplace where there is any movement of powered mobile plant
☐ is carried out in/near a shaft or trench deeper tha tunnel involving use of explosives	☐ is carried out in areas with artificial extremes of temperature.
☐ is carried out in or near water or other liquid that involves a risk of drowning.	☐ involves diving work.
ANY HIGH-RISK MACHINER	RY OR EQUIPMENT NEARBY

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RISK MATRIX										
LIKELIHOOD	INSIGNIFICANT	MINOR	MODERATE	MAJOR	CATASTROPHIC	SCORE	ACTION		HEIRARCHY OF CONTROLS	
ALMOST CERTAIN	3 HIGH	3 HIGH	4 ACUTE	4 ACUTE	4 ACUTE	SCORE	ACTION		Elimination Remove the hazard.	
LIKELY	2 MODERATE	3 HIGH	3 HIGH	4 ACUTE	4 ACUTE	4A ACUTE	DO NOT PROCE		Substitution	
POSSIBLE	1 LOW	2 MODERATE	3 HIGH	4 ACUTE	4 ACUTE	3H HIGH	Review befor work starts.		Replace the hazard.	
UNLIKELY	1 LOW	1 LOW	2 MODERATE	3 HIGH	4 ACUTE	2M MODERATE	Ensure control measures in place.		Isolate People from the hazard	
RARE	1 LOW	1 LOW	2 MODERATE	3 HIGH	3 HIGH	1L LOW	nitor and		Engineering Isolate the hazard.	
is the second m	rchy of Controls: ost effective metho nging the work is th	d of controlling a	hazard. Enginee	ring by isolati		et. 'ive, while	rd. Substitution Administrative effective		Administrative Change the work. PPE	

				PERS		TIVE EQUIPM					
		Select the app	ropriate PPL	abo. ~uitab	ic or the equip	oment used or	the job task	being perform	ned (if applica	able).	
FOOT PROTECTION	HAND PROTECTION	HEAD PROTECTION	ARING STION	F' CTIO	RL PIRATORY PROTECTION	FACE PROTECTION	HIGH-VIS CLOTHING	PROTECTIVE CLOTHING	FALL PROTECTION	SUN PROTECTION	HAIR/JEWELLERY SECURED
Other PPE R	equired:										
	Pe	ermit or Licen	ses Requirem	ents		Mandatory Qualifications and Training					



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
Pre-start planning and approvals	Incomplete mine plan information Unidentified geotechnical hazards Uncontrolled interaction with other workgroups Inadequate emergency response planning Inadequate ventilation planning Uncontrolled change to work scope	4A	 Review current mine design, survey plans of approved ventilation plans before authorising any underground work Confirm all work falls within the approved Min or cerations Plan and Principal Hazard Management Plans (PHMPs) Conduct a formal risk assess cent and Job Safety halve (JSA) for proposed tasks, documenting controls for strata, documents for gharis consists including shaft sinking, roof bolting, hot work and shotfiring as per site permodework programs. Obtain writter comits for gharis consks including shaft sinking, roof bolting, hot work and shotfiring as per site permodework programs. Obtain writter comits for gharis consks including shaft sinking, roof bolting, hot work and shotfiring as per site permodework programs. Hold pre-stal meetic with all involve workers to brief on scope, hazards, control measures, escape route to comit of compression protocols. Verification precipies and operators hold current, relevant high-risk work licences and site consider in the specific equipment and tasks. Confirm all superiors for especific equipment and tasks. Check all workers are inducted for the specific mine, including understanding of tag-in/tag-out and derground traffic management rules. Record all planned deviations from standard procedures and seek written approval from the Underground Mine Manager before implementation. DO NOT commence underground activities if PHMPs for ground control, ventilation, fire and explosion, shafts, inrush and mobile plant are not in place and current. 	3H
Underground access and tag-in	Unaccounted personnel underground Vehicle collision at portal Fall on inclined decline Exposure to contaminated atmosphere at portal Unauthorised access to restricted zones	ЗН	 Tag in at the designated tag board or electronic system before entering the portal and confirm headcount with control room Inspect cap lamp, self-rescuer, multi-gas detector and communication device before underground entry and remove from service if defective Verify portal ventilation is operating to design parameters before entering, including airflow direction and minimum air velocity Use designated walkways, handrails and graded paths when entering declines and avoid walking on wet or muddy haul roads where practicable Drive light vehicles with headlights on, UHF radio tuned to site channel and speed limited to posted underground limits Call approach and location on the UHF radio at all designated call-up points and at each level change Restrict access to high-risk areas such as shaft stations, pump chambers and explosive magazines using locked gates and signage 	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 Issue and check permits and keys for restricted zones through the control room to maintain positive control of access DO NOT enter the mine if tag board or electronic taking system is not functioning and alternative headcount measures have not been implement	RESIDUAL RISK
Mine ventilation system inspection	Inadequate airflow in headings Accumulation of methane and other gases Diesel particulate exposure Fan or duct mechanical failure Recirculation of contaminated air Noise exposure from main fans	4A	 Verify main and auxiliary fans are operating ocordinated the statutory ventilation plan before authorising production activities Inspect ventilation shafts, reces, stoppings, regular for and ours for damage, leakage and obstruction at the start of each shift Measure airflown and content on and differential pressures at statutory monitoring points using calibrated instructions. Set regulated and ventile on doors and ance with the ventilation engineer's instructions and lock or tag story swhich received. Instance of sion-proof fans, motors and electrical equipment in gassy zones in accordance with AS/NZS 60079 Isolate lower fans and lock out using personal locks and tags before conducting maintenance, proctic or reports. Fit and the intain ventilation ducting with tight connections, correct suspension and no sharp bends that hay require adjacently. Internet a diesel equipment management plan that specifies maximum numbers of operating units per panel and emission testing frequency. Provide acoustic enclosures or noise barriers at fan installations and mandate use of Class 5 hearing protection in fan drifts. DO NOT operate auxiliary fans that are not shown, sized and positioned on the current approved ventilation plan. DO NOT alter regulators, doors or stoppings without written authorisation from the ventilation officer or engineer. 	2M
Managing mine gases and air quality	Methane accumulation Oxygen deficiency Carbon monoxide exposure Toxic gas release from strata Dust inhalation Spontaneous combustion products	4A		2M



HAT MAY ARISE	INITIAL RISK	SPECIFIC MEASURES TO BE PUT IN PLACE TO ELIMINATE OR CONTROL THE RISKS	RESIDUAL RISK
surface water rkings station ricording ent inundation y tractio.	JA		2M
รเ er y t	kings Lawrinooding at inundation ractic	kings author nooding at inundation ractic.	kings tation inundation tractic.



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
Mine seismicity and strata monitoring	Rockburst due to seismic event Strata failure in high stress ground Fall of ground at intersections Instability around excavations and shafts Unplanned release of stored energy	4A		2M
Continuous miner operations	Contact with rotating drums Entanglement in cable and trailing gear Struck by moving miner Dust and gas release at face Remote control signal loss Continuous miner fire	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
Load haul dump machine operation	Vehicle rollover on or Collision with perputrians Struck by falling of duri Loss of control due to poor visibility Mechanical failure of broking system Dust and diesel fume exposure	tA		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
Underground locomotive operation	Runaway train on gradient Collision with other rolling stock Pedestrian struck by locomotive Derailment at points or crossings Load shift from wagons Electrical contact on trolley systems	4A		2M
Rock bolt and roof bolt installation	 Fall of ground at working face Struck by drill steel or spinning bolt Entanglement in rotating equipment High-pressure fluid injection Exposure to resin fumes and dust Working at height on bolter platforms 	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
Strata reinforcement and support	Collapse of unsupported ground Falling mesh or support elements Manual handling of eavy mesh and bolts Pinch points with process Working beneath suspended loads	ЗН		2 M
	Fall from height in shaft Dropped chicets down shaft			
Shaft sinking and shaft work	Dropped objects down shaft Shaft wall collapse	4A		2M
	Suspension system failure			



JOB STEP	POTENTIAL HAZARDS	IR	CONTROL MEASURES	RR
SPECIFIC WORK STEPS	HAZARDS THAT MAY ARISE • Inadequate ventilation in shaft • Exposure to blasting fumes	IN INITIAL RISK	SPECIFIC MEASURES TO BE PUT IN PLACE TO ELIMINATE OR CONTROL THE RISKS	RESIDUAL RISK
Mine ventilation upkeep and maintenance	Contact with moving factoring of the second	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
				ı
Emergency response and evacuation	Delayed evacuation in fire Disorientation in smoke or dust Communication failure during incide Entrapment due to fall of ground Exposure to toxic gases during escap	4A		2M

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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 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: 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 2025

Legislation NSW: https://www.safework.nsw.gov.au/legal-obligations/legislati

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

Northern Territory

Work Health and Safety (National Uniform Legislation) Act 2011

Work Health and Safety (National Uniform Legislation) Regulation 201

Legislation NT: https://worksafe.nt.gov.au/laws-and-compliance/wo

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

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

Or pational Health a. Safety Act J4

Occ ational Health and afety gulations 2017

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

tes of actice V/ attps://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/modelcodes-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





SIGNATORIES OF THE SAFE WORK METHOD STATEMENT

The signed and dated personnel listed below have cooperated in the consultation and development of this Safe Work Method Statement which has been approved by the Person/s Conducting a Business or Undertaking (PCBU). In signing this Safe Work Method Statement each individual acknowledges and confirms that they have read this SWMS in full, having raised any questions for items on this Safe Work Method Statement that require clarification, and confirms that they are competent, skilled and knowledgeable for the task assigned to them. Every person acknowledges that they have received the relevant training and qualifications where required, before carrying out any work contained in this Safe Work Method Statement. By signing this Saf Work Method Statement each individual agrees to work safely, to follow any safe work instructions which are provided, and agrees to use all Personal Protective Equipment where appropriate.

Worker Name	Signature

SAFE WORK N. THE STATEMENT MONITORING AND REVIEW

The SWMS must be reviewed regularly to make sure it remains fective of must be reviewed (and revised if necessary) if relevant control measures are rovised. The view respectively should be carried out in consultation with workers (including contractors as the may be cated by the operation of the SWMS and their health and safety representatives who represented that work group at the workplace.

When the SWMS has been revised the PCBU must ensure that advised that a revision has been made and how they can access the revised SWMS, including all persons who will need to change a work procedure or system as a rest of the review are advised of the changes in a way that will enable them to implement their duties and the revised SWMS. All workers that will be involved in the work must be provided with the relevant information and instruction that will assist them to understand and implement the revised SWMS.

The SWMS must be monitored regularly for the effectiveness of ensuring hazard controls are effective in reducing the risk of incidents, keeping the workplace safe for all personnel. The person responsible for monitoring the effectiveness of the Safe Work Method Statement should employ a multi-faceted approach which includes but is not limited to:

- Spot Checks.
- 2. Consultation with workers, contractors and sub-contractors.
- 3. Internal audits on a continual basis.

An approach of continuous improvement, promptly recording inconsistencies or deficiencies, followed up by immediate corrective action and consultation with all relevant personnel ensures that the PCBU is consistently developing ever-improving systems of safe work principles.

REVIEW NUMBER	1	2	3	4	5	6	7
NAME							
INITIALS							
DATE							

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SAFE WORK METHOD STATEMENT REVIEW CHECKLIST

This Safe Work Method Statement Review Checklist is to be followed and used upon initial development of the SWMS to help ensure that all steps have been adequately taken before work commences. Think of this document as an internal audit review checklist before commencing work, and may form part of a Toolbox Talk (safety meeting) and may be used as an opportunity for education and training.

ITEMS WHICH MUST BE INCLUDED IN THE SWMS	COMPLETED	COMMENTS
The company details have been entered, including the project name and address.		
All relevant personnel consulted during the development of the SWMS.		
Name, signature, position and date signed of the person approving the SWMS.		
Specific personnel and qualifications, experience is noted in the SWMS.	7	
Provides a step-by-step process of tasks required to carry out the activity or task.	k	
Adequate risk assessment of any identified hazards has been completed.	\boxtimes	
Foreseeable hazards are identified and documented for each step.	\boxtimes	
Any hazards listed in any site risk assessments have been added to the SWMS		
SWMS initial risk (IR) column as well as residual risk (RR) colum mpleted.	\boxtimes	
Check control measures added to the SWMS are the most effective selections.		
Responsible person is assigned and listed on the part of the important of	\boxtimes	
Permit or licenses requirements specified, sur as Hot Work, Electric Work, Work at Heights etc.	\boxtimes	
SWMS identifies plant and equipment to be use	\boxtimes	
Details of inspection checks required for any equipment listed an onthe SWMS.	\boxtimes	
Describes any mandatory qualifications, experience, use or skills required to perform the work.	\boxtimes	
Applicable personal protective equipment is selected on the SWMS.		
Reflects and documents any legislative references and/or Australian Standards.	\boxtimes	
Identifies any hazardous substances used with specific control measures in line with any SDS.	\boxtimes	
REVIEWED BY	DATE REV	/IEWED
SIGNATURE	DATE COM	PLETED