

Operating Ground Penetratin	g Radar SAFE WORK ME	THOD STATEMENT (SWMS	5)
TASK OR AC	CTIVITY: Operating Ground Pene	trating Radar	
Business Name:		ABN:	SWMS#
Business Address:			
Contact Person:	Phone:	E ail:	
THIS SAFE WORK METHOD	STATEMENT IS APPROV D BY	THE PC. OF THE ROJECT	
Under the Work Health and Safety Regulation (WHS Regulation), a person conduct the proposed work starts.	cting a business or und ring (Pc V) is	required to en that a safe work method	statement (SWMS) is prepared before
Full Name:			
Signature:	NY	Title:	Date:
Details of the person(s) responsible for ensuring implementation, monitoring	compliant e of the SWIL as well as re	eviews and modifications of the SWMS.	
Full Name:		Title:	Phone:
ALL PERSONNEL PARTICIPATING IN ANY ACTIVITY ON THIS VMS HAVE THE FOLLOWING COMMUNICATED	NA. 2 OF ALL RELEVANT PERSONN EVELOPMENT AND APPROVAL OF	IEL WHO HAVE BEEN CONSULTED AND (THIS SWMS	COMMUNICATED TO IN THE
Safety meetings or toolbox talks will be sched ed in according with regislative requirements to first identify any site hazards, to contribute those hazards and then to further take steps to either eliminate or conclude acchimacy.			
If an incident or a near miss occurs, all work must stead dately. 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.			



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 WC & BEIN C & RIED 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-hearing	☐ is carried out on or near energised electrical installations or services
☐ involves demolition of an element related to the physical interrity structure	☐ is carried out in an area that may have a contaminated or flammable atmosphere
☐ involves, or is likely to involve, disturbing as	☐ involves tilt-up or precast concrete
involves structural alteration or repair the requires to rary so port 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 an or 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	Y OR EQUIPMENT NEARBY



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 Remoy e 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 before work starts.		Replace the hazard.	
UNLIKELY	1 LOW	1 LOW	2 MODERATE	3 HIGH	4 ACUTE	2M MODERATE	Ensure control measures in place.		Isolation Isolate People from the hazard	
RARE	1 LOW	1 LOW	2 MODERATE	3 HIGH	3 HIGH	1L LOW	nitor and records		Engineering Isolate the hazard.	
is the second m	archy of Controls: nost effective methologing the work is	od of controlling a	a hazard. Engine	ering by isolat	ion is the nost of	e. tive, while	ard. Substitution e Administrative least effective		Administrative Change the work.	

						TIVE EQUIPM					
		Select the app	propriate PPL	abo suitak	ok for the equip	oment used or	the job task	being perfori	med (if applica	able).	
FOOT PROTECTION	HAND PROTECTION	HEAD PROTECTION	THE ARING STION	P _cCTION	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	ients		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
1. Preparation	Uninitialised equipment, Unclear operation protocol	зн	 Ensure all team members are trained in the operation of Ground Penetrating Radar equipment. Conduct a pre-operation briefing to clarify ales, reconsibilities and procedures. Verify that the equipment has been properly contated according to the manufacturer's specifications before use. Check that all safety features of the Ground Penetropy Radar are functional. Use an update one mento identify potential underground hazards before beginning operation. Perform a massessment of the surforce for reporting issues or emergencies during the operation. Ensuration at massessment of the surforce for reporting issues or emergencies during the operation. Make surface or ator's manual is readily available on-site for reference as needed. Confine allow resonate rotective equipment (PPE) is worn by operators and nearby workers. Test the Ground Penetrating Radar in a controlled environment to ensure it is functioning correctly. Kurnal g of combration and maintenance activities for accountability and future reference. 	2M
2. Equipment Selection	Incorrect GPR chosen, Fare quipment	зн	 nsure the GPR unit and accessory equipment are inspected before use for any visible damage or wear. Verify that the selected GPR unit meets the required specifications for the type of surface and depth to be scanned. Conduct regular maintenance as per manufacturer guidelines to keep the GPR in optimal working condition. Use only approved and calibrated GPR units to ensure accurate readings. Ensure the operator is adequately trained in the specific model of GPR being used. Maintain a logbook of all inspections, calibrations, and maintenance activities for the GPR unit. Follow manufacturer instructions strictly during set-up and operation phases. Equip operators with necessary personal protective equipment (PPE) as outlined in safety protocols. Implement a pre-use checklist that includes testing the GPR on a known material to verify proper function. Ensure a backup GPR unit is available on-site in case the primary equipment fails. Mark defective or suspicious GPR units as out of service immediately and arrange for repair or replacement. 	2M
3. Site Survey	Unknown underground hazards, Terrain instability	4A	- Conduct a site assessment to identify potential hazards using historical maps and existing site data.	2M



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			- Perform a visual inspection of the site for signs of terrain instability such as cracks, subsidence, or unusual water accumulation.	
			- Use appropriate personal protective equipment (**), including high-visibility clothing, safety boots, and hard hats.	
			- Implement a permit-to-work system to contribute site and ensure all personnel are aware of the ongoing activities.	
			- Establish exclusion zones around identified ardous areas using barricades or warning tape.	
			- Utilise GPS technology and survey markers to have out area systematically and avoid redundant scans.	
			- Train operator and a dentification, risk me agement, and the proper use of ground penetrating radar (GPR) adipment.	
			- Maintain content communication and team members using radios or other reliable communication devices	
			- Depl. (a cotter) conitor for unforeseen changes in terrain and alert the operator immediately if any issues le coected.	
			Regula y call, the and test the GPR equipment before and during operation to ensure accurate and the file in dings	
4. Machine Setup	Inappropriate setup, Electrical faults	ЗН		2M



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5. Calibration	Misinterpretation of data, Skewed results	ЗН		2M
6. Scanning Process	Unanticipated ground hardness, Poor visibility of results	4A		3H



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7. Data Analysis	Misreading of data, Computer malfunctions	зн		2M
8. Marking Findings	Incorrect marker placement, Weather conditions altering marks	2M		1L



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9. Equipment Dismantling	Hurt while machinery dismantling, Electrocution with wires	ЗН		1L
10. Reporting	Incorrect report generation, Missing important findings	2M		1L



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11. Follow up Survey	Missed hazardous materials on first survey, Inaccurate extrapolation			2M
12. Verification Process	False negatives/positives, Mistakes in verification procedure	2M		l ^{1L}



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13. Re-calibration	Equipment malfunction post-calibration, Incorrect calibration settings	2M		1



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14. Further Data Analyzation	Incorrect readings, Software issues	3Н		2M
15. Final Reporting and Submission	Incomplete reporting, Incorrect submission format	2M		1L



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16. Toolkit Sanitization	Exposure to harsh chemicals, Accidental ingestion/inhalation	2M		1L
17. Equipment Storage	Incorrect storage causing damages, Unintentional misuse or theft	зн		2M



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18. Review and Continuous Improvement	Negligence of review procedures, Resistance to change	ЗН		1L
19. Risk Monitoring and Review	Overlooking minor risks, Incompetent risk assessment	4A		2M



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20. Debriefing Session	Miscommunication, Famure to identisafety breaches	2M		1



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SPECIFIC WORK STEPS	HAZARDS THAT MAY ARISE	INITIAL RISK	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 REFERENCE. IN ANY STATEMENT 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/work-health-and-safety-laws Codes of Practice QLD: https://www.worksafe.qld.gov.au/laws-and-compliance/work-health-and-safety-laws

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/legis

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

Northern Territory

Work Health and Safety (National Uniform Legislation) Act 201

Work Health and Safety (National Uniform Legislation) Regulations 26

Legislation NT: https://worksafe.nt.gov.au/laws-and-compliance/prkplace/fety-la

Codes of Practice NT: https://worksafe.nt.gov.a/ and-reso pes des ractice

South Australia

Work Health and Safety Act 2012 (SA)

Work Health and Safety Regulations 2012 (S

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

Codes of Practice for SA: https://www.safework.sa.gov.au/w/wplaces/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 & Safety A 2004

Octational Health an Safe* regulations 2017

- Legis ion VIC: https://www.fksafe.vic.gov.au/occupational-health-and-safety-act-and-
- des of actice VI 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/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



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 Safe 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	Date

SAFE WORK IN 'THIS 'S' ITEM ON MONITORING AND REVIEW

The SWMS must be reviewed regularly to make sure it remain effect, and must be reviewed (and revised if necessary) if relevant control measures are revised. The view should be carried out in consultation with workers (including contractors as an intractors of the SWMS and their health and safety representatives who represented that work group at the workplace.

When the SWMS has been revised the PCBD mest ensure the advised that a revision has been made and how they can accept the revised SWMS, including all persons who will need to change a work procedure or system as a remotified the review are advised of the changes in a way that will enable them to implement their duties the thing with 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.
- 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							



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.		
Adequate risk assessment of any identified hazards has been completed.	\boxtimes	
Foreseeable hazards are identified and documented for each step.		
Any hazards listed in any site risk assessments have been added to the SV. 5.		
SWMS initial risk (IR) column as well as residual risk (RR) column ampleted.		
Check control measures added to the SWMS are the most effective sections.		
Responsible person is assigned and listed on the high centary of control measures.		
Permit or licenses requirements specified, so in as Hot Work, Electrical Work, Work at Heights etc.		
SWMS identifies plant and equipment to be		
Details of inspection checks required for any equipment lister are noted on the SWMS.		
Describes any mandatory qualifications, experience, ang or skills required to perform the work.		
Applicable personal protective equipment is selected on the SWMS.		
Reflects and documents any legislative references and/or Australian Standards.		
Identifies any hazardous substances used with specific control measures in line with any SDS.	\boxtimes	
REVIEWED BY	DATE REVIE	WED
SIGNATURE	DATE COMPL	ETED