

Damage To Underground Utilities Du	ring Excavation SAFE W	ORK METHOD STATEMENT	(SWMS)
TASK OR ACTIVITY:	Damage To Underground Utilitie	es During Excavation	
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	views 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 accorde with regislative requirements to first identify any site hazards, to construct the those hazards and then to further take steps to either eliminate or conclude ach hazard.			
If an incident or a near miss occurs, all work must stead adately. 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	SCORE	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	Inadequate safety briefing, improper PPE	2M	 Conduct a thorough site-specific safety browng prior to commencement of work. Ensure all personnel have reviewed and a derstant one excavation and SWMS documentation. Confirm that all workers are trained in identify a underground utilities and the associated risks. Provide an up-to-date map of underground selves in the area to all team members. Use non-destructive authods and a hand digglic or vacuum excavation for locating utilities. Verify that proponel are equipped with GPS wits for accurate positioning and navigation. Require all volkers to work industry or a pard PPE, including high-visibility vests, steel-capped boots, hardons, and ones. Supply dittions of PE specific to identified hazards, such as ear protection or respirators if needed. Perform donate check of all PPE to ensure it is functional and compliant with safety standards. Design to a diety onicer responsible for monitoring compliance with PPE requirements. Exhabits an expussion zone around the work area marked by appropriate signage and barriers. Assign of brief a spotter to guide machinery operations near potential utility locations. nordinate with utility companies for updated information on underground layouts and hazard mitigations. Review and adjust control measures regularly based on ongoing risk assessments and feedback from teams. 	1L
2. Marking the Ground	Incorrect location marking, tripping over ground markers	2M	 Conduct a thorough check of underground service plans before marking the ground to ensure accurate location information. Use highly visible, weather-resistant markers or paint to clearly indicate underground utility locations and avoid incorrect marking. Employ a qualified locator technician to identify and electronically mark all underground utilities prior to excavation. Cross-reference between multiple utility service diagrams to double-check the accuracy of marked locations. Maintain an updated record of marked locations and communicate this information to all team members involved in the excavation work. Implement training sessions for workers on correctly identifying and interpreting ground markers. Regularly inspect and maintain the visibility of ground markings throughout the duration of the project. Clearly delineate marked areas with additional barriers or tape to prevent accidental disturbance by workers or equipment. 	1L



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			- Schedule regular meetings to brief crew members on any changes to marked locations based on new information or conditions.	
			- Ensure that ground markings are done in daylor or under adequate artificial lighting to prevent misunderstandings.	
			- Use distinct markers for different types of tilities (e.g. as, water, electricity) to prevent confusion.	
			- Post warning signs around the marked area at personnel and visitors about potential underground utilities and tripping hazards.	
			- Hold a pre-start meeting each day to review the nortion ground markers and remind the team to stay vigilant about tripping risks.	
			- Use only to sed and core stent a sonne operate the cable locator equipment.	
			- Conduct a through sit assessment and review all available utility plans before commencing.	
			- Calil is the calculocator in accordance with manufacturer guidelines before each use.	
	Electrical shock, inaccurate reading leading to damage	он	- Performan st scanning a known cable to ensure the device is functioning correctly.	
			Clearly park entifies atility locations on the ground using non-permanent paint or flags.	
			- ss-re-grence, indings from the cable locator with other detection methods, such as Ground Pene. 4 Radar (GPR).	
3. Cable Locator Usage			Insure communication and collaboration with utility companies for additional verification of underground solices.	2M
			Implement exclusion zones around marked utilities to prevent unintended access by machinery.	
			- Review weather conditions that could affect readings and plan accordingly.	
			- Schedule regular breaks for operator to maintain focus and reduce fatigue during scanning operations.	
			- Establish an emergency response plan in case of accidental contact with underground utilities.	
			- Document and review results with project supervisors to ensure clarity and understanding of detected utilities.	
4. Hand Dig Trial Holes	Striking utility line, physical strain	3H		1L
and Dig marriolog	Striking utility line, physical strain	311		



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5. Excavator Digging Around Utility Line	Machinery malfunctors and striking of utilities, overlead power les	IA		3H



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6. Excavator Removing Soil Above Utility Line	Damaging utility, excavation collapse	4A		3H
7. Exposing Utility By Hand	Physical injury from sharp implements	ЗН		1L



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8. Verifying and Recording the Position	Data errors, poor communication	2M		1L



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9. Ongoing Checks During Excavation Work	Unidentified hazards, complacency leading to accidents	2M		1L
10. Backfilling The Excavated Area	Improper compaction, work area hazards	ЗН		1L



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11. Demobilising Site	Poor site clean up, traffic hazards	2M		1L



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12. Reporting Incidents	Non-reporting of hazards, failure to act on incident reports	2M		1L
13. Maintenance of Equipment	Improper maintenance procedures, equipment failure	3Н		1L



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14. Toolbox Meetings	Poor communication, la of hor direcognition	2M		1L
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15. Safety Audits and Inspections	Unidentified hazards, inadequate risk assessment	ЗН		2M
16. Emergency Response	Inadequate first aid, poor emergency response plan	ЗН		2M



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17. Project Closure and Review	Incomplete documentation, inadeq te review procedures	2M		1L



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18. Disposal of Waste Material	Violation of waste disposal regulations, improper classification of waste	3H		2M
19. Daily Start- up/Shutdown Procedures	Non-compliance with procedures, inadequate checks	2M		1L



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20. Dealing With Unexpected Utility Finds	Unsuitable continuously measures, lack of communication	3Н		2M
	1			



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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 REFERENCE. IN ANY STAFF THAT 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 2017

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

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/prkplate fety-lay

Codes of Practice NT: https://worksafe.nt.gov.av and-reso per 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

Ocupational Health Safety A 2004

Occupational Health and Safet Regulations 2017

Legis ion VIC: https://www.safe.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 as should be carried out in consultation with workers (including contractors as unputractors of the SWMS and their health and safety registeratives who represented that work group at the workplace.

When the SWMS has been revised the PCBD mest ensure the all persons involved with the work are 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 rest of the review are advised of the changes in a way that will enable them to implement their duties the total 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.		
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 effer ve secutions.		
Responsible person is assigned and listed on the splenetation of control measures.		
Permit or licenses requirements specified, so n as Hot Work, Electral 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, and 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.		
REVIEWED BY	DATE REV	/IEWED
SIGNATURE	DATE COM	PLETED