

## PLUMBING (WATER JETTING DRAINS) SAFE WORK METHOD STATEMENT (SWMS)

Business Contact: PHILIP KENNY	Phone #: 0427 847 927	Principal Contractor (PC):
Responsible person (for monitoring SWMS and work): PHILIP KENNY		PC Address:
Signature:	Date:	PC Phone #:
Contact Phone #: 0427 847 927		Date SWMS provided to PC:
		Job Site Address:

### THIS WORK ACTIVITY INVOLVES THE FOLLOWING HAZARDOUS WORK AND ENVIRONMENTAL IMPACTS

<input checked="" type="checkbox"/> Electrical equipment	<input checked="" type="checkbox"/> Elevated levels	<input checked="" type="checkbox"/> Slips, trips and falls	<input checked="" type="checkbox"/> Hazardous substances	<input type="checkbox"/> Silica dust
<input type="checkbox"/> Hot Work	<input checked="" type="checkbox"/> Hazardous manual tasks	<input type="checkbox"/> Outdoor work	<input type="checkbox"/> Remotely &/or isolated work	<input type="checkbox"/> ?
<input checked="" type="checkbox"/> Noise and vibration	<input checked="" type="checkbox"/> Native vegetation & weeds	<input checked="" type="checkbox"/> Air quality	<input checked="" type="checkbox"/> Waste	<input checked="" type="checkbox"/> Vehicle movement
<input checked="" type="checkbox"/> Fuels, oils & chemicals	<input checked="" type="checkbox"/> Terrestrial fauna	<input checked="" type="checkbox"/> Waterways & soils	<input type="checkbox"/> Cultural heritage	<input type="checkbox"/> ?

### THIS WORK ACTIVITY INVOLVES THE FOLLOWING "HIGH-RISK CONSTRUCTION WORK" (HRCW - IDENTIFIED IN THE JOB TASK COLUMN)

<input type="checkbox"/> Confined spaces	<input checked="" type="checkbox"/> Mobile plant movement	<input type="checkbox"/> Demolition of a load-bearing structure	<input type="checkbox"/> Asbestos disturbance
<input type="checkbox"/> Using explosives	<input type="checkbox"/> Diving work	<input type="checkbox"/> Artificial extremes of temperature	<input type="checkbox"/> Tilt-up or pre-cast concrete
<input type="checkbox"/> Pressurised gas distribution mains or piping chemical, fuel or refrigerant lines energised electrical installations or services			
<input type="checkbox"/> Structures or buildings involving structural alterations or repairs that require temporary support to prevent collapse			
<input type="checkbox"/> Involves a risk of a person falling from 2m or more, including work on telecommunications towers			
<input type="checkbox"/> Working at depths greater than 1.5 Metres, including tunnels or mines		<input checked="" type="checkbox"/> Work in an area that may have a contaminated or flammable atmosphere	
<input type="checkbox"/> Work carried out adjacent to a road, railway or shipping lane, traffic corridor		<input type="checkbox"/> In or near water or other liquid that involves the risk of drowning	

FOOT PROTECTION	HEARING PROTECTION	HIGH VISIBILITY	HEAD PROTECTION	EYE PROTECTION	FACE PROTECTION	HAND PROTECTION	PROTECTIVE CLOTHING	BREATHING PROTECTION	SUN PROTECTION	SAFETY HARNESS	Do not wear rings, watches or jewellery that may become entangled. Long and loose hair must be tied back.
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	

<b>Planning/Preparation</b>	<ul style="list-style-type: none"> <li>• Liaise with Principal Contractor to identify on-site safety systems and procedures</li> <li>• Establish supervisory and communication arrangements</li> <li>• Principal contractor to confirm emergency response procedures are in place.</li> </ul>
<b>Hold Points</b>	<ul style="list-style-type: none"> <li>• Hold points identified and signed off before continuing work. <i>Specify?</i></li> </ul>
<b>Training/Licence</b>	<ul style="list-style-type: none"> <li>• All workers to have a General Construction Induction Card</li> <li>• Relevant workers have relevant certificates of competency, licenses, and training.</li> <li>• Trained First Aider on site</li> <li>• All workers trained in site-specific emergency and evacuation procedures, SWMS, safe work procedures, and safety data sheets.</li> </ul>
<b>Worker duties and responsibilities</b>	<ul style="list-style-type: none"> <li>• Fit condition for work, i.e. no signs of fatigue, alcohol or drugs</li> <li>• Attend all site inductions/briefings</li> <li>• Comply with all site requirements, e.g. PPE, Traffic Management Plans (TMP)</li> <li>• Only carry out work related to the contract</li> <li>• Inspect completed work and report possible safety, environmental and quality matters to the supervisor.</li> </ul>
<b>Monitor/Review</b>	<ul style="list-style-type: none"> <li>• All persons involved in the task must have this SWMS communicated to them before work commences</li> <li>• SWMS to be reviewed and amended if necessary, in consultation with relevant persons after any near miss or incident</li> <li>• If additional site hazards identified, review this SWMS and amend control measures to suit</li> <li>• People, including workers, contractors and sub-contractors, affected by the revisions to this SWMS, must be informed ASAP</li> <li>• Give the principal contractor a copy of the revised SWMS</li> <li>• The site supervisor to monitor works against the controls stated in this SWMS</li> <li>• SWMS must be kept on-site and made available for inspection or review</li> <li>• Keep a record of this SWMS until the job is complete or for two years if involved in a notifiable incident</li> <li>• Regardless of any other factor, the person in control of the workplace must review this SWMS at least annually.</li> </ul>

**Site-Specific Notes:**

**Act, Regulations, Codes of Practice References:**

- Work Health and Safety (Transitional and Consequential Provisions) Act 2011
- Work Health and Safety Act 2011
- Work Health and Safety Regulations 2011
- Work Health and Safety (First Aid in the Workplace) Code of Practice 2015
- Work Health and Safety (Work Health and Safety Consultation, Cooperation and Co-ordination) Code of Practice 2015
- Work Health and Safety (Work Health the Work Environment and Facilities) Code of Practice 2015
- Standards Australia 2001, – Occupational health and safety management systems - Specification with guidance for use, AS/NZS 4801: 2001 (Superseded by AS/NZS ISO 45001)
- Standards Australia 2018, – Occupational health and safety management systems — Requirements with guidance for use, AS/NZS ISO 45001:2018
- Standards Australia 2016, – Environmental management systems - Requirements with guidance for use, AS/NZS ISO 14001:2016
- Standards Australia 2016, – Quality management systems – Requirements, AS/NZS ISO 9001:2016
- SafeWork NSW
- NSW Work Health and Safety Act 2011
- NSW Work Health and Safety Regulation 2017

LIKELIHOOD	INSIGNIFICANT	MINOR	MODERATE	MAJOR	CATASTROPHIC	SCORE	ACTION
ALMOST CERTAIN	3 - HIGH	3 - HIGH	4 - ACUTE	4 - ACUTE	4 - ACUTE		
LIKELY	2 - MODERATE	3 - HIGH	3 - HIGH	4 - ACUTE	4 - ACUTE	4A - ACUTE	DO NOT PROCEED.
POSSIBLE	1 - LOW	2 - MODERATE	3 - HIGH	4 - ACUTE	4 - ACUTE	3H - HIGH	Review before commencing work.
UNLIKELY	1 - LOW	1 - LOW	2 - MODERATE	3 - HIGH	4 - ACUTE	2M - MODERATE	Maintain control measures.
RARE	1 - LOW	1 - LOW	2 - MODERATE	3 - HIGH	3 - HIGH	1L - LOW	Record and monitor.



JOB TASK	HAZARDS	RISK	CONTROL MEASURES	RESPONSIBLE PERSON
1. Working outdoors	Extreme weather	3H	<ul style="list-style-type: none"> <li>• Check weather conditions – do not work in extreme conditions</li> <li>• Reschedule works to work in more moderate temperatures.</li> </ul>	Supervisor to maintain awareness of
	Hyperthermia	3H	<ul style="list-style-type: none"> <li>• Ensure that workers are trained to recognise the symptoms of hyperthermia and hypothermia</li> </ul>	

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	Hypothermia		<ul style="list-style-type: none"> <li><u>Hot conditions. Ensure:</u> <ul style="list-style-type: none"> <li>Suitable protective clothing</li> <li>Sun brim on hard hats</li> <li>Safety glasses - UV rated</li> <li>Use 30+ sunscreen on exposed skin</li> <li>Adequate drinking water</li> <li>Access to shade on breaks</li> <li>Adequate breaks.</li> </ul> </li> <li><u>Cold conditions. Ensure:</u> <ul style="list-style-type: none"> <li>Schedule warm-up breaks</li> <li>Hold breaks inside</li> <li>Dress warmly in layers</li> <li>Stay dry (wet clothing chills the body rapidly)</li> <li>Workers must get out of the cold as soon as they can if starting to feel symptoms</li> <li>Alcohol, cigarettes, caffeine and certain medications increase susceptibility to cold.</li> </ul> </li> </ul>	<p>weather conditions</p> <p><b>Operator</b> to follow controls</p>
<b>2. HRCW</b> Travel to/from/ between sites	Vehicle failure	3H	<ul style="list-style-type: none"> <li>⚠ Conduct Pre-start Inspection and operate the water cart following manufacturers' instructions. <i>Do not use if any fault/damage/missing parts. Report immediately and follow tag-out/lock-out procedures.</i></li> </ul>	<p><b>Supervisors</b> to check all controls in place and followed</p> <p><b>Operator</b> to follow controls and make supervisor aware of any issues</p>
	Falls	3H	<ul style="list-style-type: none"> <li>Face the water cart whenever you mount and dismount</li> <li>Use the provided steps/handholds when entering or exiting the cabin</li> <li>Maintain a three-point contact with the steps and handholds (<i>2 feet &amp; 1 hand/1 foot &amp; 2 hands</i>)</li> <li>Never mount or dismount a moving water cart</li> <li>Do not jump off the vehicle</li> </ul>	
	<ul style="list-style-type: none"> <li>Crush injuries</li> <li>Entrapment</li> <li>Fatality</li> </ul>	4A	<ul style="list-style-type: none"> <li>Adjust the seat to achieve full pedal contact when operators' back is against the back of the seat</li> <li>Wear seatbelt</li> <li>Ensure all body parts are kept within the cabin at all times when operating the water cart</li> <li>Start-up as per manufacturer's instructions and never leave operator seat with the engine running</li> <li>Be familiar with the width of equipment to maintain safe clearances</li> <li>Do not use any controls as handholds when entering or exiting the operator compartment</li> </ul>	
	<ul style="list-style-type: none"> <li>Working on roads</li> <li>Collision</li> </ul>	4A	<ul style="list-style-type: none"> <li>Ensure the vehicle registered with the appropriate state authority</li> <li>The water cart is in roadworthy condition</li> <li>Over-dimension vehicles require an over-dimension permit &amp; must comply with permit conditions</li> <li>Comply with local laws and permits</li> <li>All operators must be licensed and deemed competent on the make/model and type of vehicle that will be operated</li> <li>Operators' driver's licence is current</li> <li>⚠ <i>DO NOT drive under the influence of drugs or alcohol</i></li> <li>⚠ <i>DO NOT adjust radio channels or volume while driving</i></li> <li>⚠ <i>DO NOT use electronic devices while driving:</i></li> </ul>	

JOB TASK	HAZARDS	RISK	CONTROL MEASURES	RESPONSIBLE PERSON
			<ul style="list-style-type: none"> <li>○ If you must use a device, e.g. a mobile phone or GPS pull over and park in a safe area. Do not stop where you could be a hazard to other vehicles, pedestrians, or yourself</li> <li>• Ensure travel path: <ul style="list-style-type: none"> <li>○ Allows for the height of the vehicle</li> <li>○ Is clear of low-lying tree limbs</li> <li>○ Is suitable for weight/size of the vehicle, limited gradients and slopes</li> <li>○ Obey speed limits and be aware of increased braking/stopping distance when loaded</li> <li>○ Check load regularly</li> </ul> </li> <li>• Do not begin vehicle transport if visibility is less than 250m (due to heavy rain, smoke, dust, etc.) If visibility is reduced to less than 250m during transport, stop travel, park in a safe location and wait until visibility improves</li> <li>• ALWAYS wear high vis.</li> </ul>	
3. <b>HRCW</b> Obtaining water from a hydrant or another water source, e.g. creek/dam	Injury to public	3H	<ul style="list-style-type: none"> <li>• When filling from a hydrant, the driver is the controller of the worksite; the area around the hydrant: <ul style="list-style-type: none"> <li>○ Park as close to the hydrant as possible</li> <li>○ Ensure pedestrians have a safe walkway</li> <li>○ Place temporary barricades/signage in place if pedestrian traffic expected</li> <li>○ Ensure that the hydrant and standpipe are under observation during the operation.</li> </ul> </li> </ul>	<b>Operator</b> to check the site and conduct JSA where necessary
	Working roadside	4A	<ul style="list-style-type: none"> <li>• Check constantly for changing hazards while working and monitor work position at all times. Ensure: <ul style="list-style-type: none"> <li>○ High visibility clothing worn at all times: <ul style="list-style-type: none"> <li>▪ Day works: Class D/F</li> <li>▪ Night works: Class N/R</li> <li>▪ Combination of day/night: Class D/N</li> </ul> </li> <li>○ Do not enter established “no go zones” for pedestrians</li> <li>○ Safety/warning signs, Spotters, traffic barriers must be obeyed as required</li> <li>○ Follow traffic management plan requirements.</li> </ul> </li> </ul>	
	Vehicle roll-over	4A	<ul style="list-style-type: none"> <li>• When filling, and exiting fill area ensure: <ul style="list-style-type: none"> <li>○ The ground is stable; the soil compacted sufficiently</li> <li>○ Gradient/slope within safe limits for travel</li> <li>○ Do not overload/exceed capabilities.</li> </ul> </li> </ul>	

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	Water cart by vehicle	4A	<ul style="list-style-type: none"> <li>If a vehicle has to be reversed to a hydrant or a water source other than a hydrant, ensure: <ul style="list-style-type: none"> <li>The vehicle parked on level ground with the parking brake engaged</li> <li>Engine is stopped</li> <li>Engine start switch key turned off, and the engine start switch key removed</li> <li>Chock wheels.</li> </ul> </li> </ul>	
	Snake/spider bite	3H	<ul style="list-style-type: none"> <li>Always wear safety boots</li> <li>Check ground before exiting the vehicle</li> <li>Visually inspect where you are working</li> <li>Use caution when opening hydrant covers (do not use bare hands), walking in long grass or near water sources.</li> </ul>	
	Hit by objects under pressure	3H	<ul style="list-style-type: none"> <li>Fitting standpipe – Obtaining Water from Hydrant. Check standpipe for: <ul style="list-style-type: none"> <li>Any visible signs of defects</li> <li>Possible leaks – slight “O” ring seal weeps may be acceptable</li> </ul> </li> <li>Clear the area around the pit cover plate from debris</li> <li>Remove the pit cover plate and the cover plate on the spring hydrant</li> <li>Lock standpipe in place on hydrant – partial turn</li> <li>Connect the flexible hose and ensure couplings are firmly locked in position</li> <li>Open standpipe valve SLOWLY so that all air is expelled from the pipe</li> <li>Reverse the procedure to remove the standpipe.</li> </ul>	
	Burns	3H	<ul style="list-style-type: none"> <li>Water Pump: <ul style="list-style-type: none"> <li>Always follow the operating manual</li> <li>Ensure all safety guards and shields are in place while operating pump</li> <li>Do not allow the pump to overheat <ul style="list-style-type: none"> <li>If the pump overheats, turn it off immediately, and allow it to cool</li> </ul> </li> <li>Do not touch the pump engine or exhaust during or immediately after operation (<i>it will be hot</i>).</li> </ul> </li> </ul>	
	Hearing loss	3H	<ul style="list-style-type: none"> <li>Hearing protection worn by all persons throughout exposure to noise.</li> </ul>	
<b>4. HRCW</b> Arrival on-site & assess onsite conditions	Personal injury, property damage &/or environmental incident	3H	<ul style="list-style-type: none"> <li>The vehicle should be positioned in a safe location, clear of traffic/vehicles/pedestrians during equipment delivery and materials removal (deploy physical barriers, caution signs as necessary)</li> <li>Do not park illegally</li> <li>Identify and obey all safety-related signage (check site entry requirements)</li> <li>Report to Site Supervisor</li> <li>Ensure site-specific induction undertaken</li> </ul>	<b>Supervisor</b> to check the site and conduct JSA where necessary



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			<ul style="list-style-type: none"> <li>Assess mobile phone reception</li> <li>The worksite is exactly as detailed in Terms of Agreement or contract</li> <li>Complete a JSA specifying the control measures of unanticipated hazards.</li> </ul>	
5. <b>HRCW</b> Work area set-up	Adjacent to traffic/ public	4A	<ul style="list-style-type: none"> <li>If loading/unloading/setting-up roadside – comply with local laws and permits</li> <li>Barricading controls are implemented and authorised as part of the safe work system to protect persons from hazards</li> <li>The barricade must be far enough from the water blasting to keep observers safe.</li> <li>Exclusion Zones established to stop people from entering the area</li> <li>Signage in place to caution persons not to enter - DANGER HIGH PRESSURE WATER BLASTING KEEP OUT. AUTHORISED PERSONNEL ONLY</li> <li>Public footpath or roadway exclusion zone: <ul style="list-style-type: none"> <li>Approval must be sought from the relevant authority (<i>people should be safely directed to an alternative footpath where required</i>)</li> <li>Lane closures and other operations requiring barricades and signs should meet local road traffic authority, local government authorities' requirements</li> </ul> </li> <li>Use a spotter as required - designate a responsible person for controlling the immediate area where the operation is occurring</li> <li>The responsible person must authorise entry into the area</li> <li>The barricade must be far enough to keep observers safe.</li> </ul>	<b>Supervisors</b> to check all controls in place and followed  <b>Workers</b> to follow controls and make supervisor aware of any issues
	Truck rollover	4A	<ul style="list-style-type: none"> <li>Verify that the work area/platform is suitable for the machine. (Smaller items of mobile plant may have higher bearing pressures than larger machines).</li> <li>Ensure the working platform/area is monitored and maintained in good condition for the duration of the work.</li> </ul>	
6. Environment	Environmental impact	3H	<ul style="list-style-type: none"> <li><b>Noise &amp; vibration</b> - Be aware of maximum noise levels at the site</li> <li>The plant is maintained to minimise noise</li> <li>No noise produced outside council approved hours of operation</li> <li>Engineering controls fitted to equipment (e.g. silencers)</li> <li><b>Waste</b> - Place all wastes and rubbish in bins or other appropriate containers</li> <li>Separate recycle waste from general waste</li> <li>Do not mix waste with spoil</li> <li><b>Fuels, oils &amp; chemicals</b> - Minimum amounts of hazardous substances are kept on site</li> <li>Labelled and securely stored</li> <li>Refuelling of vehicles/equipment will be undertaken at least 6m from drains and waterways</li> </ul>	<b>Supervisors</b> to check all controls in place and followed  <b>Workers</b> to follow controls and make supervisor

JOB TASK	HAZARDS	RISK	CONTROL MEASURES	RESPONSIBLE PERSON
			<ul style="list-style-type: none"> <li>Follow SDS directions for disposal of chemicals in approved waste containers</li> <li>A spill kit is available at all times &amp; spills will be cleaned up immediately follow SDS directions</li> <li><b>Waterways &amp; soils</b> - Do not wash out plant, equipment or containers where residue can enter waterways or drains</li> <li>Ensure any contaminated wastewater is captured as per Local and State Environment Laws</li> <li>Avoid cross contamination: <ul style="list-style-type: none"> <li>Disassemble and clean all equipment</li> <li>Dispose of all waste in accordance with regulations</li> </ul> </li> <li><b>Native vegetation &amp; weeds</b> - Ensure that plant is washed free of dirt, vegetation, debris before travelling between sites.</li> <li><b>Vehicle movement</b> - Follow the TMP, only travel on established tracks and roads</li> <li>Use designated entry and exit points.</li> </ul>	aware of any issues
7. House keeping	<ul style="list-style-type: none"> <li>Slips</li> <li>Trips</li> <li>Falls</li> </ul>	3H	<ul style="list-style-type: none"> <li>Maintain housekeeping throughout the shift &amp; clean-up</li> <li>Ensure sufficient lighting to detect changes in level (using temporary lighting as required)</li> <li>Do not jump from elevated edges &gt;180mm, step carefully and use prepared access areas</li> <li>The work area is clean and uncluttered as possible</li> <li>Do not place equipment where it could become a trip hazard</li> <li>Check for stored items, corners or other obstructions that could cause tripping</li> <li>Ensure there is room to manoeuvre and no obstacles in the way</li> <li>Check the end destination is prepared correctly for placement of the materials/equipment</li> <li>Clean spills immediately</li> <li>Footwear is suitable. Snug-fitting shoes/boots with flat, non-slip soles, no loose soles, long laces, oily soles, or caked with mud or other contaminants.</li> </ul>	Supervisor and workers to ensure control measures followed
8. Manual tasks	Musculoskeletal (MSD) injuries	3H	<ul style="list-style-type: none"> <li>Materials/equipment placed as close to the work area as possible</li> <li>Weight of an object should be known; avoid lifting loads more than 1/4 of your body weight</li> <li>Do not use extreme force to move items</li> <li>Hold lifted items close to the body whenever possible: <ul style="list-style-type: none"> <li>Keeping knees bent and back straight and lift, unload keeping knees bent</li> </ul> </li> <li>Use team lifts and mechanical means for heavy items</li> <li>Schedule regular breaks and practice job rotation</li> <li>Avoid overreaching, long periods of repetitive movements, awkward and sustained positions, twisting and side-bending.</li> </ul>	Supervisor and workers to ensure control measures followed
9. Hazardous substance	Contact with hazardous	3H	<ul style="list-style-type: none"> <li>Follow directions of use for (<i>specify the substances/chemicals</i>)</li> <li>Consult SDS for the product</li> </ul>	Supervisor and workers



JOB TASK	HAZARDS	RISK	CONTROL MEASURES	RESPONSIBLE PERSON
/chemical use	substance /chemical		<ul style="list-style-type: none"> <li>Use PPE as per the SDS - <i>specify</i></li> <li>Use with adequate ventilation</li> <li>Chemical resistant gloves for prolonged exposure</li> <li>× <i>DO NOT eat or drink when handling chemicals</i></li> <li>× <i>DO NOT eat or drink without washing hands thoroughly first</i></li> <li>× <i>DO NOT take food into the work area where chemicals are being used or stored</i></li> <li>× <i>DO NOT wear contaminated PPE in areas outside the work zone, such as eating areas.</i></li> </ul>	to ensure control measures followed
<b>10. HRCW</b> Lifting pit /maintenance hole lid	<ul style="list-style-type: none"> <li>Struck by mobile plant</li> <li>Crush injuries</li> <li>Amputation</li> <li>Entanglement</li> <li>Fatality</li> </ul>	4A	<ul style="list-style-type: none"> <li>Follow traffic management plan requirements</li> <li>Lift pit/maintenance hole cover with a crane as required. When having to lift a pit/maintenance hole cover using a crane. Check constantly for changing hazards while working and monitor work position at all times. Ensure: <ul style="list-style-type: none"> <li>Do not stand behind reversing vehicles</li> <li>Allow sufficient distance from plant during operation (allow sufficient room for equipment failures – such as arm/boom failure or plant rollover)</li> <li>No work conducted in established "no-go zones" for pedestrians</li> <li>Alertness at all times. Listen for reversing alarms/beepers and calls from Plant Operators</li> <li>Safety/warning signs, Spotters, traffic barriers must be obeyed as required</li> <li>Work positions should be in clear sight of plant operators</li> </ul> </li> <li>All ground workers must wear a hard hat and high vis clothing.</li> </ul>	<b>Supervisors</b> to check all controls in place and followed  <b>Workers</b> to follow controls and make supervisor aware of any issues
	Crush Injuries	3H	<ul style="list-style-type: none"> <li>Never place your hand in the opening to grasp a cover. Get help and use a tool</li> <li>Use blocks/shims where appropriate to avoid crushing</li> <li>Wear gloves and steel-cap boots for protection.</li> </ul>	
	MSD injuries	3H	Opening pit/maintenance hole lid <ul style="list-style-type: none"> <li>Be aware of sudden unexpected movement if cover dislodging from the lid</li> <li>Do not use excessive force</li> <li>Use appropriate tool for cover removal or use mechanical means to assist in a lift of heavy lids.</li> </ul>	
	Snake/spider bite	3H	<ul style="list-style-type: none"> <li>Be aware of surroundings - snakes and spiders can be found anywhere</li> <li>Never put your hands or feet somewhere where you can't see them</li> <li>Check all drain covers after removal.</li> </ul>	

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<b>11. HRCW</b> Inspect the drain	Equipment failure	3H	<ul style="list-style-type: none"> <li>CCTV is pre-inspected and operated following manufacturers' instructions. Check: <ul style="list-style-type: none"> <li>All controls are labelled and working</li> <li>Safety decals attached and legible</li> <li>All safety devices are present and in good condition.</li> </ul> </li> </ul>	<b>Supervisors</b> to check all controls in place and followed  <b>Workers</b> to follow controls and make supervisor aware of any issues
	Fall	4A	<ul style="list-style-type: none"> <li>Protect the edges where a person can fall</li> <li>Never walk backward when near maintenance holes, pits or other drop-offs</li> <li>⚠ If a person has entered or fallen into a manhole <b>DO NOT ENTER THE MANHOLE TO ATTEMPT A RESCUE.</b> Contact the appropriate emergency personnel and the appropriate supervisor immediately if the person cannot be retrieved without entering.</li> </ul>	
	Hazardous atmospheres	4A	<ul style="list-style-type: none"> <li>Allow air to vent from pits when opening covers before commencing work ⚠ <b>Do not enter any pit</b></li> <li>A confined space can be defined as an enclosed or partially enclosed space that is likely to be a risk to health and safety, when a person's head or upper body is within the boundary of the confined space, because of: <ul style="list-style-type: none"> <li>An atmosphere that does not have a safe oxygen level, or</li> <li>Contaminants, including airborne gases, vapours and dusts, that may cause injury from fire or explosion, or</li> <li>Harmful concentrations of any airborne contaminants.</li> </ul> </li> <li>⚠ <b>If work involves entering an identified Confined Space, a separate, dedicated 'Confined Spaces SWMS' is required to be used in conjunction with this SWMS.</b></li> <li>Note: Do not enter any manhole/pit in which a person's head or upper body will be within the space without ensuring a confined space entry permit is issued for each confined space entry requiring: <ul style="list-style-type: none"> <li>A risk assessment</li> <li>Atmospheric monitoring</li> <li>Use of respiratory and recovery equipment where indicated if to be entered.</li> </ul> </li> </ul>	
	Biological hazards/disease	3H	<ul style="list-style-type: none"> <li>Wear gloves, clear safety glasses, and protective clothing when removing covers and handling equipment</li> <li>Ensure workers immunised for hepatitis "B" and tetanus</li> <li>Use disinfectant to wash hands as per label requirements</li> <li>Do not eat, drink or smoke during/after handling equipment until hands are washed.</li> <li>⚠ <b>If an injury such as a cut occurs when operating a drain cleaner, seek immediate medical attention as infection and disease can be transmitted through sewer equipment.</b></li> </ul>	

JOB TASK	HAZARDS	RISK	CONTROL MEASURES	RESPONSIBLE PERSON
	Musculoskeletal (MSD) injuries	3H	<ul style="list-style-type: none"> <li>• Sending and pulling feeder lines: <ul style="list-style-type: none"> <li>○ Ensure gloves worn when feeding and pulling ropes</li> <li>○ Work in teams maintaining communication</li> <li>○ Alternate the task if manual retrieving lines to avoid strain and heat exhaustion.</li> </ul> </li> </ul>	
<b>12. HRCW</b> Pump use	Burns	3H	<ul style="list-style-type: none"> <li>• Always follow pump operating manual</li> <li>• Ensure all safety guards and shields are in place while operating pump</li> <li>• Do not allow pump to overheat. If pump overheats, turn it off immediately, &amp; allow it to cool</li> <li>• Do not touch pump engine or exhaust during or immediately after operation (it will be hot).</li> </ul>	<b>Supervisors</b> to check all controls in place and followed  <b>Workers</b> to follow controls and make supervisor aware of any issues
	Operator error Lack of information	3H	<ul style="list-style-type: none"> <li>• Permanently mount a name plate on pump which provides the following information: <ul style="list-style-type: none"> <li>○ Manufacturer's name</li> <li>○ Model designation, serial number &amp; year of manufacture</li> <li>○ Maximum volume and pressure performance</li> <li>○ Maximum input speed</li> <li>○ Maximum operating pressures.</li> </ul> </li> </ul>	
	Hazardous Atmospheres	4A	<ul style="list-style-type: none"> <li>• Do not operate motorised machinery in enclosed spaces for extended periods (carbon monoxide build-up)</li> <li>• Ensure well-ventilated area when using petrol or diesel pumps.</li> </ul>	
<b>13. HRCW</b> Hydro Jetting	High pressure lacerations/ hit by objects under pressure	3H	<p><b>⚠ Fluid under pressure can have sufficient force to penetrate skin. If injured by pressurised fluid, obtain medical treatment immediately.</b></p> <ul style="list-style-type: none"> <li>• The pump unit should not be placed where it can be contaminated by debris from the jetting operation: <ul style="list-style-type: none"> <li>○ Use at least two operators when Hydro-jetting. The primary operator handling the cleaning device must maintain control of the water discharge at all times</li> <li>○ The secondary operator can operate emergency shutdown operations and act as a safety spotter</li> </ul> </li> <li>• Ensure: <ul style="list-style-type: none"> <li>○ All hoses are fitted with actuating devices that require positive effort by the operator, (hand or foot) to keep the supply valve open</li> <li>○ Hoses used for high pressure cleaning are rated for pressures at least 2.5 times that of the intended operating pressure</li> </ul> </li> <li>• Hoses must be tagged to indicate: <ul style="list-style-type: none"> <li>○ Manufacturers identification</li> <li>○ Date of manufacture</li> </ul> </li> </ul>	<b>Supervisors</b> to check all controls in place and followed  <b>Workers</b> to follow controls and make supervisor aware of any issues

JOB TASK	HAZARDS	RISK	CONTROL MEASURES	RESPONSIBLE PERSON
			<ul style="list-style-type: none"> <li>Maximum operating pressure</li> <li>Damaged or faulty hoses shall not be used. It shall be tagged OUT OF SERVICE and repaired or disposed of</li> <li>Using High Pressure Hoses. Ensure: <ul style="list-style-type: none"> <li>Carefully inspect the nozzle body before each use for damage. Replace damaged or worn nozzles immediately</li> <li>Insert nozzle into the line before pressurising the system. Ensure the nozzle is inserted far enough into the line that any backward facing jets do not pose a hazard to the operator (use an anti-withdrawal device where practicable)</li> <li>During operation, never force a lance through blockages</li> <li><b>Keep hands and body away from pinholes and nozzles, which eject fluids under high pressure</b></li> <li>Always depressurise the system before removing the nozzle. Mark the last 3m of the hose in 1.5m sections. (This will allow the operator to determine when the nozzle is close to the entry of the clean out)</li> <li>Take care during insertion and removal a to avoid damage to hoses on corners and sharp edges. (Use edge guards where necessary)</li> <li>Couplings to be securely fastened and reinforced by a secondary method to avoid separation e.g. Whip Check (restrains hose in the event of the end fitting or hose coupling failure).</li> </ul> </li> </ul> <p><b>⚠ All high-pressure equipment shall be isolated and depressurised before being left unattended.</b></p>	
	Slips, trips and falls	3H	<ul style="list-style-type: none"> <li>Ensure plant and equipment placement does not become a trip hazard</li> <li>Access pathways are unobstructed</li> <li>Hoses arranged to minimise tripping hazards.</li> </ul>	
	Biological hazards - sewers & drains	4A	<ul style="list-style-type: none"> <li>Ensure workers are immunised for hepatitis "B" and tetanus</li> <li>Use appropriate PPE - Goggles, face shield, gloves, long sleeves and long pants</li> <li>Use disinfectant to wash hands as per label requirements</li> <li>Immediately treat all abrasions, cuts for contamination. (Seek medical attention for injuries associated with cleaning sewers, drains).</li> </ul> <p><b>⚠ Serious illness may occur if this procedure is not followed.</b></p>	
	Hearing loss	3H	<ul style="list-style-type: none"> <li>Hearing protection must be worn by all persons throughout the period of exposure to noise.</li> </ul>	

JOB TASK	HAZARDS	RISK	CONTROL MEASURES	RESPONSIBLE PERSON
<b>14. HRCW</b> Fuelling on-site	<ul style="list-style-type: none"> <li>Flammable atmosphere</li> <li>Exposure to fuel</li> <li>Fire</li> <li>Burns</li> <li>Inhalation</li> <li>Ingestion</li> <li>Eye &amp; skin damage</li> </ul>	4A	<ul style="list-style-type: none"> <li>Follow manufacturer's manual/recommendations for re-fuelling</li> <li>DO NOT smoke during re-fuelling</li> <li><b>Diesel: Fire extinguisher</b> – Water, foam, dry chemical powder, CO<sub>2</sub></li> <li><b>Unleaded petrol: Fire extinguisher</b> – Dry chemical powder, foam, CO<sub>2</sub>.</li> <li><i>Never use water to extinguish an Unleaded Petrol fire</i></li> <li>Avoid breathing vapours or contact with fuel</li> <li>Change clothing immediately if splashed with fuel</li> <li>Do not siphon or swallow fuel as this can be fatal</li> <li>Wash hands carefully after handling fuel before eating, drinking or smoking</li> <li>Shower and wash immediately after work &amp; wash clothes in separate wash from other clothes.</li> </ul>	<b>Supervisor and workers</b> to ensure control measures followed
<b>15. HRCW</b> On completion	Unauthorised access  Contact with electricity  Security breach  Vehicle/people impact	3H  3H  3H  4A	<ul style="list-style-type: none"> <li>If acceptable, remove or add barricades</li> <li>Ensure machine is parked in a safe, level area, clear of unstable or sloping ground</li> <li>Store the key in a safe place (restrict unauthorised access).</li> <li>Disconnect power tool/extension leads from power point before winding up, so that you don't get a shock if the lead is damaged</li> <li>Inspect leads and power equipment for damage.</li> <li>All personnel sign-out on Site Register.</li> <li>Stay to designated access and egress routes</li> <li>Maintain awareness of surroundings at all times.</li> </ul>	<b>Supervisor</b> to confirm all workers have signed out  <b>Workers</b> to comply with controls
<b>16. Emergency response</b>	<ul style="list-style-type: none"> <li>Injury</li> <li>Fatality</li> <li>Environmental damage</li> </ul>	4A	<ul style="list-style-type: none"> <li><b>For police, fire or ambulance call '000.'</b></li> <li>Follow site emergency and evacuation procedures</li> <li>A communication system is available, e.g. a mobile phone or radio</li> <li>Check for dangers to self before helping others</li> <li>Maintain control of the area and stabilise the situation</li> <li>Apply first aid to the injured worker</li> <li>Complete an incident report.</li> </ul>	<b>Supervisors and workers</b> ensure controls followed  <b>Refer to your SWMS implementing instructions for further specific emergency responses.</b>
<b>OVERALL RISK RATING AFTER CONTROLS</b>			<input type="checkbox"/> 1 - Low <input checked="" type="checkbox"/> 2 - MODERATE <input type="checkbox"/> 3 - HIGH <input type="checkbox"/> 4 - ACUTE	
<b>PERMITS</b>	<input type="checkbox"/> Not applicable <input type="checkbox"/> Hot Work <input type="checkbox"/> Confined Space <input type="checkbox"/> Local council <input type="checkbox"/> ? <input type="checkbox"/> ?			
<b>SITE MANAGEMENT PLAN</b>	Is the work associated with a Construction Project? <input type="checkbox"/> Yes <input type="checkbox"/> No If yes – This SWMS must align with requirements of the Site Management Plan in place for the Construction Project.			

PLANT & EQUIPMENT		HAZARDOUS SUBSTANCES	SUPERVISORY ARRANGEMENTS
<input type="checkbox"/> Electrical tools and leads	Tested and tagged quarterly	<i>List hazardous substances taken on-site and have the SDS onsite.</i> 1. 2. 3. 4. 5.	<input type="checkbox"/> Audits <input type="checkbox"/> Spot Checks <input type="checkbox"/> Reporting systems <input type="checkbox"/> Suitably qualified supervisors for job <input type="checkbox"/> Direct on-site supervision <input type="checkbox"/> Remote site: communication systems/schedule
<input type="checkbox"/> Hand tools - Meet AS/NZS	Regular visual inspection		
<input type="checkbox"/> Ladders - Meet AS/NZS	Inspected and tagged out if damaged		
<input type="checkbox"/> Mobile plant- <i>specify</i>	Inspected and tagged out if damaged		
<input type="checkbox"/> ?			



Staff Information will be supplied upon  
request via email from a  
WHS Officer or supervisor.