

PK PLUMBING AND GASFITTING PTY LTD PCK PLUMBING PTY LTD

Document Title: Drainage and Stormwater Hazard Identification

Document #: PK -5.2

Issue Date: 1st February 2019

ABN 24 614 674 001 ABN 51 109 738 427

Authorised by: Director Philip Kenny

Version 2.

Revision date: 1st February 2020

Hazard/Risk Assessment Profile: **Drainage and Stormwater**

Steps	Job activity tasks	Possible Hazards "What can harm you?"	Risk "What can happen?"	Risk Score	Safety controls "What can you do?"
1	General planning	Inadequate training / planning	Task specific injuries due to inexperience or failure to provide appropriate equipment	1	 Sufficient skills (competency to complete the required task) Adequate competent supervision Planning for required equipment carried out Using the appropriate equipment and PPE for the task
	Establishment of site	Public access	Injury to the public	2	Provide safe passage for the public (provide barriers and supervision)
		Traffic	Motor vehicle accidents	1	Traffic control carried out by suitably qualified person
		Poor access	Slips, trips and falls	2	Provide a clean and uncluttered work area (good housekeeping)
_			Manual handling injuries	3	Do not attempt to lift heavy unit, use suitable lifting equipment
2		Working at height	Falls into trench	2	 Provide barriers and controls to eliminate the fall hazard Use appropriate work platforms and safety harness and safety equipment
		Working under floors	Confined space	1	 Ventilate work area and use confined space procedure Conduct a hazardous substance survey prior to commencement to work Use the appropriate PPE for the task
3	Using power tools	Tool is unsafe or cords damaged	Electric Shock / electrocution	1	 Check condition of power tool before using Check power tool and extension leads display current test tag Operator is trained in correct use of power tool and is confident in the case and use of the power tool Residual current device is utilised correctly Elevate power leads in the work area Power tools and leads stored correctly and kept dry Use the appropriate PPE for the task
4	Manual handling	Lifting, weights and forces	Strains and sprains; injuries such as back damage	2	 Follow the manual handling code of practice The principles of good lifting need to be applied. These are To avoid twisting back when lifting and hold the load close to the body Bend knees when lifting objects from low levels (utilise leg muscles) The weight of the load must be considered in relation to other key risk factors including frequency, duration, distance moved and characteristics of the load and that the load is checked for contents, height, dimensions and ease of handling Use the appropriate PPE for the task



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	Locate street services	Electricity / Telecom cables	Electric shock / electrocution	1	 Locate all street services (Dial before you Dig) Isolate the electricity and gas supply
5		Gas Pipelines	Burns / asphyxiation	1	Uncover all services with caution (do not use excavation machinery)
		Water Pipelines			
		Other Services	Flooding	2	Use the appropriate PPE for the task
	Excavation	Electricity / Telecom cables	Electric shock / electrocution	1	 Locate all street services (Dial before you Dig) Isolate the electricity and gas supply
		Gas pipelines	Burns / asphyxiation	1	Uncover all services with caution (do not use excavation machinery)
		Water pipelines	Flooding	2	Timbering-shoring and vehicle movements near the excavation
		Falling into trench	Slips, trips and falls	2	Refer to code of practice excavation work
6		Trench depth and	Trench collapse	1	Provide barriers and controls to eliminate the fall hazard
		location to buildings / poles	Confined space	2	Ventilate work area and use confined space procedure
		Moving plant	Impact injury	1	Implement safe working distances and use safety observers
		Flooding	Drowning	1	Provide rescue procedures.Use the appropriate PPE for the task
	Installing and / or repairing pipe work from sewer main to and within building	Using Power tools	Electric shock / electrocution	1	Operator is trained in correct use of power tool and is confident in the care and use of the power tool
		Falling into trench	Slips, trips and falls	2	 Refer to excavation above (step 6) Provide barriers and controls to eliminate the fall hazard
7		Working near traffic or moving plant	Impact injury	1	Implement safe working distances and use safety observers
		Manual handling	Manual handling injuries	3	Use principals of good lifting and refer to manual handling above
		Working under floors	Confined space	1	 Ventilate work area and use confined space procedure Provide adequate lighting Use the appropriate PPE for the task



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	SWV pipe	Using Power tools	Electric shock / electrocution	1	Operator is trained in correct use of power tool and is confident in the care and use of the power tool
7A		Cutting SWV pipe, using priming fluid, using solvent cement	Cuts and abrasions, hand infections	3	 Use mitre box and staple support Refer material safety data sheet Use the appropriate PPE for the task Ventilate work area and use confined space procedure
		Manual handling	Manual handling injuries	3	 Use principles of good lifting and refer to manual handling above Use the appropriate PPE for the task
7B	VC pipe	Using power tools, cutting VC pipe	Cuts and abrasions		Operator is trained in correct use of power tool and is confident in the care and use of the power tool
76		Manual handling	Manual handling injuries	3	 Use principles of good lifting and refer to manual handling above Use the appropriate PPE for the task
7C	Cast iron pipe	Using power tools, cutting cast iron pipe	Electric shock / electrocution, cuts and abrasions	2	 Operator is trained in correct use of power tool and is confident in the care and use of the power tool
		Manual handling	Manual handling injuries	3	 Use principles of good lifting and refer to manual handling above Use the appropriate PPE for the task
8	Sparging	Mixing cement mortar	Skin rashes, allergies or illness, mortar splashes in eye/s	3	 Use barrier cream, or similar Use the appropriate PPE for the task
		Manual handling	Manual handling injuries	3	Use principles of good lifting and refer to manual handling above
9	Concrete lintels	Skin and eye contact with concrete	Skin rashes, allergies or illness, mortar splashes in eye/s	3	 Use barrier cream, or similar Use the appropriate PPE for the task
9			Manual handling injuries	3	 Use principles of good lifting and refer to manual handling above Risk factors including - Frequency and duration, distance moved and characteristics of the load



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10	Stormwater retention pit	Skin and eye contact with concrete	Skin rashes, allergies or illnesses, mortar splashes in eye/s	3	Use barrier cream or similar
	Brick and block laying	Electric cutting saw	Electric shock / electrocution	1	 Use of power tools refer above Operator is trained in correct use of power tools and is confident in the care and use of the power tool
	Form work	High speed rotating saw with blade	Serious cut	3	 Use of power tools refer above Operator is trained in correct use of power tools and is confident in the care and use of the power tool
		Grit or brick splinters flung out by saw or chisel	Grit or brick splinter in eye/s	2	 Use of power tools refer above Operator is trained in correct use of power tools and is confident in the care and use of the power tool
		Dust and noise	Hearing and lung damage	2	 Use of power tools refer above Operator is trained in correct use of power tools and is confident in the care and use of the power tool
		Miss hit with lump hammer			
	Precast pits	Live electricity	Electrocution	1	Isolate electricity supplyVentilate work area and use confined space procedure
11		Manual handling	Manual handling injuries	3	 The principles of good lifting need to be applied. The weight of the load must be considered in relation to other key risk factors, including frequency and duration; distance moved; characteristics of the load; load is checked
		Flooding	Confined space, drowning	1	 Provide rescue procedures Use the appropriate PPE for the task
		Lifting pits into position	Injury to persons from load being lowered	1	 Regularly check slings use qualified (ticketed) dogger or crane driver Use the appropriate PPE for the task.
12	Backfill trench and clean up	Falling into trench	Slips, trips and falls	2	 Provide barriers and controls to eliminate the fall hazard Provide alternative means of access and egress (earth ramp) to excavation rather than by ladders
		Working near traffic or moving plant	Impact injury	1	 Implement safe working distances and use safety observers Use the appropriate PPE for the task

Class 1: Death or permanent disability

Class 2: Serious Injury / lost time

Class 3: Minor injury, no lost time

All risks have the potential to cause death, permanent disability, serious injury or minor injury. The risk score is an approximation of the average incident.