

PROJECT HAZARD REGISTER



Filter	Item	Title	Hazards	Potential Consequences	Inherent Risk				Controls	Residual Risk			
					L	C	R	R		L	C	R	R
1	1	MOBILISATION											
	1.1	Planning for mobilization	Failing to plan creating misunderstanding	Personnel confused, lack of direction, project delays and damage and harm to personnel, equipment and environment	c	1	H	9	Arrange meeting with Principal project management to obtain scope of work and location of work fronts Conduct risk assessments. Plan activities programmed, development and monitoring progress Use Perkins (Handover and Commencement) Mobilization plan as checklist to ensure all relevant third parties licenses and registers have been identified and contacted high risk work activities have been flagged to ensure all licensing, notifications and permits to work have been established along with relevant trained personnel, equipment and PPE. Send out Hammertech invitation emails to contractors / consultants prior to engagement Use (Perkins Contractor/Consultant Prequalification) for contractor and consultant engagement Document scope of early works Conduct risk assessment and review past project lessons learned using Hazard - Risk Management Practices Procedure Send out Hammertech invitation emails to contractors / consultants prior to engagement Prepare engagement contracts, works orders etc., procure materials and tools to erect barricade, delineate control	D	3	M	18
	1.2	Mobilize on site	Confusion on lay down area and scope of works	Personnel injury, time delays	C	1	E	6	WA legislation, WHS Act/Regs, Perkins Procedure, Policies and Practices, Principal Permit System requirements (i.e. Contractor Safety Manuals, etc.) Mobilize advance party to scope areas and identify laydown suitable areas. Deliver site induction to all personnel, Site Mobilization Checklist to be signed by Project personnel and Logistics Supervisor Site layout plan to be provided by Project Manager prior to amenities being sent to site Site set up completed by Perkins experienced in house logistics team, prior to commencement of Subcontractors	D	3	M	18

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		No medical assistance	Person injured becomes ill or sick / death	D	1	H	10	Develop site emergency plan. Identify Emergency assembly points. Liaise with Emergency Service Operators, Medical Centre advise of locations working. Invite Emergency Service Operators to site for orientation and familiarization of area. Carry first aid kits	E	4	L	24
		Persons beginning work without authority	Property damage, personnel injury	D	3	M	18	Perkins Builders Subcontractor prestart form to be completed and all relevant paper work to be approved prior to mobilizing to site Perkins HSEMP and Hazard Register distributed to contractors Risk assessments and SWMS developed for tasks and approved by Site Manager Ensure tasks if non routine has had consultation with project management team member who is authorized by project manager to give direction to subcontractor. Review authorized routine tasks for project and include in site induction	E	4	L	24

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1		Unauthorized persons intentionally or unintentionally entering site	Persons injured by plant equipment	C	1	E	6	Comply with Perkins Builders and Principals HSEQ Systems. Stop subcontractors working if unauthorized person are located on the construction site. Escort from site to site office or main gate. Site Team to obtain personnel details and conduct investigation Erect fencing around all site perimeter and site signage leading into the construction site Delineate control points, set up control point site office (sign in/out register) erect hazard board, display contract numbers and HSE information posters.	D	3	M	18
			Persons entering area and refusing to leave	C	2	E	7	Follow Perkins Builders Community Management Procedure Liaise with local police Obtain emergency service contact numbers Include in induction - how to manage community contact	D	4	M	19

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		No toilet or crib facilities	Personnel hygiene, non compliance with site rule, eating out of crib areas	D	4	L	21	WA legislation, Perkins Builders HSE Standards Arrange a portable toilet for site, provide handwashing facilities and potable water Arrange alternative eating area for lunch and crib breaks Traffic Management Plan, keep mobile plant and LV perking separate All LV to park in designated area. All mobile plant to provide risk assessments, SWMS, licences, registration (if applicable) and insurance before mobilising to site as well as a site inspection on arrival Implement traffic management plan, develop site map and siplay at laydown area. Make traffic management plan part of induction, set speed, inspect all vehicles for compliance Check all drivers licences	D	5	L	23
		Vehicle integration	Vehicle collisions	C	1	E	6	Traffic Management Plan, keep mobile plant and LV perking separate All LV to park in designated area. All mobile plant to provide risk assessments, SWMS, licenses, registration (if applicable) and insurance before mobilizing to site as well as a site inspection on arrival Implement traffic management plan, develop site map and display at laydown area. Make traffic management plan part of induction, set speed, inspect all vehicles for compliance Check all drivers licences	D	5	L	23

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		Personnel affected by fatigue	Personnel injury and property damage, death	C	1	E	6	Ensure compliance with Fatigue management policy. Fatigue management to be part of the induction process. Ensure Programmed schedule has been given to all new subcontractors and is tracked at fortnightly via subcontractor meeting and reviewed monthly for 4 week look ahead by site manager manning hours also to be tracked on site and submitted monthly to the Principal Fatigue Risk Assessment to be used outside normal site operational hours. Exceeding 12 hours in any 24 hour period to be approved by senior site manager Providing reasonable notice if working hours or roster changes are planned Monitoring absenteeism and workload changes Monitor incidents reported attributed to fatigue Report hazards and suggest solutions regarding working hours arrangement	D	3	M	18
		Persons exposed to site hazards, incorrect PPE	Personnel exposed to risks resulting in injuries, non-compliant	C	2	H	9	PPE provided to all Perkins personnel. Site standard developed minimum requirements provided to contractors pre contract. Communicate PPE requirements and supply to Principal/Client. Communicate requirements to contractors. Have PPE at site for visitors	D	3	18	23

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1	1.3	Drug and Alcohol	Incident arising from the influence of drugs or alcohol	Incident resulting in death, injury or damage to plant, machinery and property through the use of drugs/alcohol	C	1	E	6	Adherence to Perkins Drug & Alcohol policy ,Fitness for work Policy and Procedures Training for supervisors and staff on symptoms and warning signs Drug and Alcohol testing (Pre-Employment for all Perkins Staff) and monthly random 10% Testing of all personnel on site Mandatory testing for all incidents involving mobile plant or high risk work	D	2	H	14
	1.4	Selection and Recruitment	An ineffective recruitment program leads to lack of expertise in key roles resulting in a substandard delivery of project	Potential retention of security bonds as well as ongoing costs for legacy issues and damage to reputation	C	3	H	13	HR Procedure to be followed during requirement of all staff Project management team to be selected by Operations Manager upon review of HR Training Matrix and previous project experience. Use (Contractor / Consultant Prequalification) Mobilization check list for contractor engagement All personnel shall complete Principal/Client Contractor Induction prior to access to site All personnel shall complete Perkins online hammer tech induction and project specific induction along with Principal induction requirements prior to commencing works. SWMS shall be developed for all high risk construction work to identify all hazards, risks and controls relevant to the activity in accordance with WHS (General) Regulations 2022.	D	5	L	23
1	2	SITE SET UP											
	2.1	Perimeter fence established	Fence not erected on boundary other persons property	Incident occurs due to fence not within boundary / construction occurs on neighboring property causing damage and delays.	C	1	E	6	Ensure site plans with mark ups are available and approved by PM for use, Perkins survey to mark out site boundary	D	3	M	18
			Fence not correctly braced erected	Fence falls over causing damage/harm to public, employees or property					Fence to be erected as per manufacturers design or engineers specifications				

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		Fence striking underground services	Fence post penetrate underground services	C	3	H	13	Dial before you dig permit to be in place, area to be scanned and marked prior to erection	D	5	L	23
1	2.2	Excavations and backfilling civil works for laydown pads	Damage to services Public/Employee/Property Damage resulting in Death, LTI, MTI or FA. Cost to business, delays in programmed, replacement of goods and materials, damage to reputation. Dust control Noise control Failure of plant/equipment Personnel struck by plant Unplanned movement of plant Personnel falling into excavation Injury to personnel Unstable plant (roll over) Plant operatin near open excavations (exhaust fumes) Open excavations (collaps) Possible confined spaces Manual handling	C	2	H	9	Excavation permit. Dial before you dig service. SWMS to asses work area for underground services. Dust suppression to be used as required. Trucks removing spoil to be covered. Refer Hazard Reg and HSEMP Noise.	D	2	H	14

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1	2.3	Install services / utilities - Electrical and Water	Striking or penetration of existing underground electrical services	Damage resulting in Death, LTI, MTI, FA, property damage, environmental impacts. Cost to business, delays in programme, replacement of damaged services, reputation	C	1	E	6	Dial before you dig permit to be in place. Area to be scanned prior to excavation. Isolations to be conducted (where/if applicable) prior to commencement of installation. Ensure permits are completed and approved by authorised personnel. Competent operators, licences, certificates etc. to be current and copies place on file. SWMS and risk assessments reviewed and approved by Site Manager	D	3	M	18
			Damage by penetration of existing water supply services	Property damage, environmental impacts, delays in programme, water damage to materials.	C	3	H	13	Dial before you dig permit to be in place. Area to be scanned prior to excavation. Isolations to be conducted (where/if applicable) prior to commencement of installation. Ensure permits are completed and approved by authorised personnel. Competent operators, licences, certificates etc. to be current and copies place on file. SWMS and risk assessments reviewed and approved by Site Manager	D	4	L	21

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1	2.4	Site Office Set up	Wrong position of site, offices and access to site. Complaints from surrounding buildings & general public Human interaction with vehicle traffic and equipment. Contact with existing services Site security Manual handling	Poor ergonomics personnel unsure where to go in case of an emergency Poor access/egress in and out of site causing harm to personnel or damage to property	C	5	L	20	No car parking on site by Perkins Contractor or sub-contractors, designated parking available under site managers instruction Traffic management as required Interface between essential services, coordinated with surrounding business and general public Dial before you dig. Have services located as required Site layout agreed upon by Site Manager and consultation between trades with site set up Walk through of site with site manager and trades/subcontractors before laydown of sheds and sea containers	D	5	L	23
1	2.5	Labour arrives on site	Unfamiliar with site, procedures, surrounds, expectations and requirements	Personnel injury / damage to property	D	4	L	21	Site induction delivery persons to be escorted No radios or mobile phones to be used when operating or spotting for mobile plant	E	5	L	25
1	2.6	Cranage and Lifting	Uncertified or unsafe machinery. Wrong crane for the task. Sling failure. Unlicensed and inexperienced personnel.	Personnel injury / damage to property	C	2	H	9	Crane must hold current Worksafe WA certificate. Crane inspected prior to use on site, documentation available for Perkins Builders. Task to be assessed.	D	3	M	18

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1	2.7	Crane Setup	Set up in wrong spot. Underground and over head services. Pits excavations & Unstable ground. Uneven ground. Slips Trips Falls. Manual handling Injuries. Other trades and unauthorised personnel in lift area	Personnel injury / damage to property	C	1	E	6	SWMS to be completed prior to crane set up. Heavy lifts to have lift study. Dogger and crane driver must hold the appropriate certificates of competency for crane operations. Perkins Builders to liaise with Principal as required. Underground and overhead services in area of lift to be located. Crane must be able to maintain clearances based on WPC safe approach Distance & Worksafe 3.64 requirements. Crane pad preparation to allow for adequate set up and access for lifting crew as required. Refer item on manual handling Area Controlled and barricaded as required. Spotters and traffic management to be used where necessary. Craneage to be discussed at morning prestart as required	D	2	H	14
1	3	SUBCONTRACTORS											
		No Subcontractor Safe Work Plan	Personnel injury Environmental damage reduction of work, restriction of progress and limited ability to complete works within programmed time resulting in mental health issues or deterioration		C	3	H	13	HSE Subcontractor and Visitor Management Procedure (90.01.09) All Subcontractors - Subcontractor review and sign onto JHA/SWMS/SWMS Subcontractors Certificate of Currency for Public Liability, Workers Compensation status checked.	D	2	H	14
1	4	ELECTRICITY											
	4.1	General	Death from electrocution Plant & equipment damage Fire Electric shock Burns Eye injuries		B	1	E	3	Plant and Equipment Lock-out and Tag-out Safety Practise RCD installed at production area and office switchboard. All electrical plugs, sockets and extension chords comply with relevant Australian Standards. Perkins Hammertech Online OSH/WHIS Induction. All electrical work to be performed by licensed electrician. Quarterly testing and tagging of electrical equipment by licensed electrician. All electrical RCD's fixed and portable to be tested to AS/NZS 3760 requirements. Hazard reporting.	E	2	M	19

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1	4.2	Powered tools	Fatality				Plant and Equipment Lock-out and Tag-out Safety Practise				
			Plant and equipment damage	C	1	E	6	Use of portable RCD at power source where RCD protection not in place.			
			Fire					All tools & equipment to be fitted with appropriate guards.			
			Electric shock					All tools & equipment to be maintained as per manufacturer's instructions.			
			Personal injury	C	2	H	9	Perkins Hammertech Online WHS Induction.			
			Burns					All personnel familiarised with Plant and Equipment Lock-out and Tag-out Procedure at induction.	D	5	L 23
			Noise induced hearing loss					Quarterly testing and tagging of tools & equipment by licensed electrician.			
			Eye injuries	C	3	H	13	All electrical fixed and portable RCD's to be tested to AS/NZS 3760 requirements. Hazard reporting. Monthly inspection of workplace. Relevant PPE to Australian Standards to be worn when using tools & equipment.			
	4.3	Temporary power	Fatality				Use lead stands and insulated hooks when running out cables.				

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1		Plant and equipment damage	B	1	E	3	Where provided with a door or lid to maintain degree of protection, the door or lid should –			
		Fire					o require the use of a tool for removal			
		Electrocution					o be fitted with a facility for locking			
		Burns					o be fitted with a means of retention in the open position			
		Eye injuries					o if the switchboard is provided with a socket-outlet, be provided with a clearly visible and legible sign on the external surface stating – “KEEP CLOSED- RUN ALL LEADS THROUGH BOTTOM”	E	2	M 19
			C	3	H	13	Cover to be kept closed except when access required			
							All temporary boards to be tested tagged and documented in site electrical register.			
							All temporary boards to meet AS/NZS 3012:2003 Electrical installations – Construction and demolition sites.			
5 EMERGENCY MANAGEMENT										
5.1	Emergency Plan	Death	C	1	E	6	No smoking in any buildings, offices or containers on site. Smoking not permitted on site.			
	Lack of visible emergency plan	Fire	C	2	H	9	Emergency exits well lit and/or clearly marked.			

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1	Lack of evacuation practice	Explosions	C	3	H	10	Emergency alarm is adequately heard in all areas or install visual emergency alerts		
	Lack of or poor exit lighting	Personal injury (minor – serious)					Emergency lighting maintenance and testing		
	Blocked exit doors						Perkins Hammertech Online WHS Induction.		
	Restricted Access and Egress						Emergency Management Procedures developed and communicated		
							Emergency Plan (Emergency Accident Evacuation Sheet) determined based upon any special needs and hazards that directly relate to the work environment.		
							Site Manager trained in First Aid, Spill Response and Fire Warden.		
							Site Manager to determine emergency muster point/s.		
							Site Manager to determine the suitability and location of emergency equipment and fire wardens, using the potential emergencies of bushfire, plant fire and site fire, natural disaster, medical emergency and hazardous material spill		
							Familiarise employees and sub-Subcontractors with emergency plan at induction.		
			C	2	H	9		D	5 L 23

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1	Business Disruption		C	2	H	9	Hot work near dry scrub is managed by the removal, covering or regular wetting of the scrub particularly around the portable generator and cutting, grinding and drilling. If welding is to be done outdoors, a firebreak (area cleared of grass and scrub) is to be installed. Site Manager to daily monitor the area is Fire Danger Rating. If the Fire Danger Rating is catastrophic or extreme consider the need for any hot works and /or stand the site down If the Fire Danger Rating is catastrophic or extreme and the Site Manager sees smoke or fire within the vicinity of the project site, alert people working in the area of the fire. Consider the need to stand the site down. Site Manager will monitor the radio for any changes and determine best course of action i.e. whether to work or evacuate the site.	D	4	L	21
	5.3	Fire	B	1	E	3	As above 'Emergency Management'.				
	Plant fire	Plant damage	B	2	E	5	Fully serviced portable fire extinguisher on plant and available for use.				

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1	Fire	Personal Injury	C	2	H	9	Operator trained in use of fire extinguisher	D	4	L	21	
		Business Disruption	C	3	H	10						
		Fatality	B	1	E	3	As above 'Emergency Management'.					
		Project Fire	Personal Injury	B	2	E	5					No hot work (cutting, welding, and grinding) is not to be carried out near flammable or combustible goods.
		Business Disruption					Segregation of flammable goods in storage					
			C	2	H	9	Hot work permit issued by Site Manager.					
1	5.4	Medical Emergency	Inability to treat first aid injuries				Perkins Hammertech Online WHS Induction.	D	4	L	21	
		Inadequate first aid supplies				Site Manager to determine number of first aid personnel based on hazards of the project.						
		Inadequate numbers of First Aid personnel	C	3	H	13	Minimum of one trained Senior First Aider allocated to site					
						Site Manager trained in First Aid Monthly Workplace Inspection to review content and adequacy of first aid kit stock First Aiders names and contact details posted on WHS notice board						
6 FITNESS FOR WORK												
6.1	Drugs and Alcohol	Personal injury					Perkins Hammertech Online OSH/WH S Induction.					
	Misuse	Motor vehicle accident					Supervision to monitor issue Stand worker down if required					

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1		Equipment damage	C	2	H	9	Pre employment medicals with drug and alcohol component. Employee Assistance Program HR Procedures (disciplinary)	E	2	M	19
	6.2	Fatigue – Working hours					Perkins Hammertech Online WHS Induction.				
1		Motor vehicle accident	C	2	H	9	Provide information and training on fatigue management	D	4	L	21
		Equipment damage					Providing adequate rest breaks after night callouts Incident reporting				
7 SITE SECURITY, PUBLIC & TRAFFIC MANAGEMENT											
1	7.1	Public					Site Manager to determine site fencing at the beginning of Project.				
		After hours	C	3	H	13	All site fencing is to be suitable to restrict access of third parties and direct those who are to enter the site through the site gate. Site Manager to inspect fence daily Onsite, shared or neighbouring properties and facilities - Site Manager to communicate regularly with relevant persons to ensure personnel are aware of construction risks/hazards and remain away from the site.	E	3	M	22
1	7.2	Site Traffic Management					Restriction of plant and equipment on site Internal site signage				
		Fatality Injury to site personnel Damage to plant and equipment	B	1	E	3	Site layout clearly identifies laydown, parking and traffic areas Perkins Hammertech Online WHS Induction	D	3	M	18

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1	7.3	Traffic Management directly adjacent to the site	Fatality	B	1	E	3	Any works impacting on the public crossover between site, adjoining public roads, etc to have formal traffic management plan put in place. Traffic Management Consultant engaged to develop and provide Traffic Management Plan and Traffic control outside of site boundary where public roads are concerned/impacted.	D	3	M	18
			Damage to public assets					Perkins Site Perkins Hammertech Online WHS Induction to express acceptable conduct of site personnel when accessing and exiting site				
			Damage to public vehicles									
8 PLANT MATERIALS AND EQUIPMENT												
1	8.1	Isolation	Fatality	B	1	E	3	Plant and Equipment Lock-out and Tag-out Safety Practise.				
		Workshop plant and equipment	Plant damage	B	2	E	4	Out of Service and Danger Tags available.				
		Project plant and equipment	Burns	C	3	H	13	Energised plant to have all energy sources turned off and physically locked out prior to removal of any guard(s).				
			Electrocution	C	4	H	14	Perkins Hammertech Online WHS Induction.				
			Lacerations, bruises, dislocations, fractures and other serious injuries					All personnel to be issued locks and personal danger tags.				
			Eye injuries					Only Competent persons to remove and replace guards.	D	5	L	23

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Demolition workers	Musculoskeletal strain / sprain / fractures	B	2	E	5	Site Manager project plan		
	Loss of consciousness					Subcontractor to provide Site Manager with a SWMS if a person is at risk of falling two meters or more		
	dropped objects					Subcontractor to provide Site Manager with a SWMS if alteration to a structure that requires the structure to be temporarily supported to prevent its collapse.		
						Subcontractor to provide Site Manager with a SWMS if working near energised electrical installations and lines		
						Erect exclusion zone to prevent dropped objects injury/damage		
						Scaffold		
						Scaffold erection by licensed scaffolder – Scaf tag		
						Site manager visual check daily		
						Monthly scaffold check by licensed scaffolder		
						Site manager housekeeping hazard inspection		
						Boom Lift		
						Licensed boom lift operator 11m and above		
						Boom lift operator inspection before use		



1				Operator to inspect for services/overhead power lines/ground before driving boom on site			
				Fall arrest PPE equipment to be worn by operator Working at Heights ticket required if worker in Boom lift does not hold a licence to operate machine			
				Boom lift to be immobilised at the end of days work			
				If working near overhead power lines, overhead power lines isolated with tiger tails complete before starting task			
	C	3	H	Subcontractor to complete maintenance and servicing as per the manufacturers requirements	D	4	L 21
				Scissor Lift Licenced or ticketed persons tom operate the scissor lift Scissor lift operator inspection before use Operator to inspect for services/overhead power lines/ground before driving boom on site			
				Subcontractor to complete maintenance and servicing as per the manufacturers requirements			

			Scissor lift to be immobilised at the end of days work If working near overhead power lines, overhead power lines isolated with tiger tails complete before starting task Edge Protection on Roofs Edge protection erection by licensed scaffolder – Scaf tag Site manager visual check daily Monthly edge protection check by licensed scaffolder Fall arrest system Subcontractor to complete a SWMS for access to roof Lift Wells Lift shaft protection barrier with lift opening gates, signage, and night latch. Site manager visual check daily Subcontractor to complete a SWMS for lift install Ladder Use Avoid working off a ladder - use a platform ladder where practicable Place ladders in a ratio of no more than 1:4 ration All ladders to be secured at top at all times and stabilised at the bottom All ladders to be inspected before use		
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PROJECT HAZARD REGISTER



1	10.2	Mobile machinery - pedestrians/third parties				Practice the maintaining of three points of contact when using a ladder		
						Employ the use of all fall arrest where practicable		
						Suspended slabs		
						Edge protection		
						Site manager visual check daily		
		Fatality	A	1	E	1	Site Manager Project plan – segregate work groups and decide site traffic flow.	
		Personnel injury					Site Isolation fence to 1.8meters	
		Injury to third party					Immobilise machinery at the end of the day	
		Electrocution	B	2	E	5	Mobile plant to have reversing beeper and flashing lights.	
		Foreign Body in eyes					Dust control with water cart, soil stabilisers	
							Perkins Hammertech Online WHS Induction	
							Subcontractor to provide Site Manager with a SWMS if there is movement of powered mobile plant	
							Signage – Caution “Mobile machinery in operation”, Mandatory sign “High visibility vest”,	E 5 L 25
							Site manager to contact dial before you dig and location services Subcontractor	
			C	3	H	13	All mobile machinery operators to be competent in operating machinery	
							Allocated site parking for non essential vehicles	

PROJECT HAZARD REGISTER



1						Subcontractor to complete maintenance and servicing as per the manufacturers requirements					
						All site personnel to wear High visibility vests and safety glasses and safety glasses and safety glasses					
	10.3	Excavation to 1.5 meters	Fatality	B	1	E	3	Site isolation fence to 1.5 meters			
			Personnel Injury					Site manager to consider trench barricading, benching, de-watering.			
			Third Party Injury	B	3	H	8	Perkins Hammertech Online WHS Induction Site Manager project plan			
			Musculoskeletal strain / sprain								
			Fractures	C	2	H	9	Subcontractor to upload JHA/SWMS to Perkins Hammertech project portal for review and acceptance by Site Manager prior to commencing works.	E	5	L 25
			Lacerations, bruises, dislocations	C	4	M	17	Subcontractor to provide Site Manager with a SWMS if there is movement of powered mobile plant			
			FB eyes					Site manager/Subcontractor to review and monitor compliance to SWMS			
	10.4	Excavation below 1.5 meters	Fatality	B	1	E	3	Site isolation fence to 1.5 meters			
		Personnel Injury					Site manager to consider, shoring, de-watering, overnight barricading, benching, of trench				
		Third Party Injury	B	3	H	8	Perkins Hammertech Online WHS Induction				

PROJECT HAZARD REGISTER



1		Musculoskeletal strain / sprain				Site Manager project plan					
		Fractures	C	2	H	9	Subcontractor to provide Site Manager with a JHA/SWMS involving excavation of 1.5meters and below.				
		Lacerations, bruises, dislocations					Subcontractor to upload JHA/SWMS to Perkins Hammertech project portal for review and acceptance by Site Manager prior to commencing works.	D	4	L	21
		FB eyes	C	4	M	17	Subcontractor to provide Site Manager with a JHA/SWMS if there is movement of powered mobile plant Site manager/Subcontractor to review and monitor compliance to JHA/SWMS				
1	10.5	Powered Tools									
		Fatality	B	1	E	3	Site has RCD protection on temporary and permanent power supply				
		Fire	B	2	E	5	All Perkins Builders power tools to have guards in place before use.				
		Electrocution Minor personal injury	C	2	H	9	RCD tested regularly Power tools to be tested and tagged. Electrical register on site (Hammertech)	D	5	L	23
		Burns					Perkins Hammertech Online WHS Induction				
		Eye injuries					Power tools to be used by competent operators				

PROJECT HAZARD REGISTER



		Equipment Damage		3		13	Appropriate PPE to be worn in relation to task			
1	10.6	Manual handling	Permanent disability				Crane to lift materials close to work area where practicable			
			Musculoskeletal strain / sprain	B	2	E	5	Minimise steel cuts – order steel to correct lengths		
			Crush injuries				Team lifting			
			Lacerations				Perkins Hammertech Online WHS Induction	C	5	L 20
			Fractures	B	3	H	8	Required PPE to be worn or used in relation to task		
			Dislocations							
			Bruises	B	4	H	12			
1	10.7	Slips trips	Musculoskeletal strain / sprain	B	2	E	5	Housekeeping		
			Fractures					Site Manager project plan – barricading		
			Lacerations	B	3	H	8	Yellow Caps on upright steel	D	4
			Dislocations					Perkins Hammertech Online WHS Induction		L 21
			Bruises	B	4	H	12			
1	10.8	Cuts and abrasions	Lacerations, bruises,					Site Manager project plan – barricading		
				A	4	H	7	Housekeeping	D	4
								Perkins Hammertech Online WHS Induction		L 21
								Appropriate PPE to be worn for task		
	11	SCAFFOLD, ACCESS & SAFETY RAILS								
	11.1	Working at height	Fatality	A	1	E	1	General		
		Scaffolders	Falling causing personal injury					Perkins Hammertech Online OSH/WHS Induction		
		Metal workers	Musculoskeletal strain / sprain / fractures	B	2	E	5	Site Manager project plan		
		Riggers	Loss of consciousness					Subcontractor to provide Site Manager with a SWMS if a person is at risk of falling two meters or more		

	Steel erectors	Plant & equipment damage			Subcontractor to provide Site Manager with a SWMS if work involved demolition		
	Fall arrest equipment installers	dropped objects			Subcontractor to provide Site Manager with a SWMS if alteration to a structure that requires the structure to be temporarily supported to prevent its collapse.		
					Subcontractor to provide Site Manager with a SWMS if working near energised electrical installations and lines		
					Erect exclusion zone to prevent dropped objects injury/damage		
					Scaffold		
					Scaffold erection by licensed scaffolder – Scaf tag		
					Site manager visual check daily		
					Monthly scaffold check by licensed scaffolder		
					Site manager housekeeping hazard inspection		
					Boom lift to be immobilised at the end of days work		
					Licensed boom lift operator 11m and above		
					Boom lift operator inspection before use		



1				Operator to inspect for services/overhead power lines/ground before driving boom on site			
				If working near overhead power lines, overhead power lines isolated with tiger tails complete before starting task			
					E	2	M 19
	C	3	H	13	Subcontractor to complete maintenance and servicing as per the manufacturers requirements		
				Fall arrest PPE equipment to be worn by operator			
				Scissor Lift			
				Scissor lift to be immobilised at the end of days work			
				Licenced or ticketed worker to operate scissor lift			
				Scissor lift operator inspection before use			
				Operator to inspect for services/overhead power lines/ground before driving boom on site			
				Subcontractor to complete maintenance and servicing as per the manufacturers requirements			
				If working near overhead power lines, overhead power lines isolated with tiger tails complete before starting task			
				Edge Protection on Roofs			
				Edge protection erection by licensed scaffolder – Scaf tag			
				Site manager visual check daily			

						Monthly edge protection check by licensed scaffolder Subcontractor to complete a SWMS for access to roof Fall arrest system Roofers/plumbers/mechanical to wear fall arrest to access roof Lift Wells Lift shaft protection barrier with lift opening gates, signage, and night latch. Site manager visual check daily Subcontractor to complete a SWMS for lift install Ladder Use Avoid working off a ladder - use a platform ladder where practicable Place ladders in a ratio of no more than 1:4 ration All ladders to be secured at top at all times and stabilised at the bottom All ladders to be inspected before use Practice the maintaining of three points of contact when using a ladder Employ the use of all fall arrest where practicable Suspended slabs Edge protection Site manager visual check daily			
12 EARTHWORKS									
12.1 BULK EARTHWORKS									
Mobile machinery - pedestrians/third parties/dust control	Fatality	A	1	E	1	Site Manager Project plan – segregate work groups and decide site traffic flow.			
	Personnel injury	B	2	E	5	Site Isolation fence to 1.8meters			
	Electrocution					Immobilise machinery at the end of the day			
	Injury to third party					Dust control with water cart, soil stabilisers			
	Foreign Body in eyes					Mobile plant to have reversing beeper and flashing lights. Perkins Hammertech Online WHS Induction Subcontractor to provide Site Manager with a SWMS if there is movement of powered mobile plant			

PROJECT HAZARD REGISTER



1					Signage – Caution “Mobile machinery in operation”, Mandatory sign “High visibility vest”,				
					Site manager to contact dial before you dig and location services Subcontractor				
					All mobile machinery operators to be competent in operating machinery				
					Allocated site parking for non essential vehicles				
					Subcontractor to complete maintenance and servicing as per the manufacturers requirements				
					All site personnel to wear High visibility vests and safety glasses and safety glasses				
1	12.2	Excavation to 1.5 meters	Fatality	C	2	H	9	Site isolation fence to 1.8 meters	
			Third Party Injury	C	3	H	10	Perkins Hammertech Online WHS Induction	
			Musculoskeletal strain / sprain	C	4	H	11	Site Manager project plan	
			Fractures					Subcontractor to upload SWMS to Perkins Hammertech project portal for review and acceptance by Site Manager prior to commencing works.	
			Lacerations, bruises, dislocations						
				C	2	H	9		

PROJECT HAZARD REGISTER



		FB eyes	C	4	M	17	Site manager/Subcontractor to review and monitor compliance to SWMS			
1	12.3	Excavation below 1.5 meters	B	1	E	3	Site isolation fence to 1.8 meters	D	4	L 21
		Personnel Injury	B	3	H	8	Site manager to consider, shoring, dewatering, overnight barricading, benching, of trench			
		Third Party Injury					Perkins Hammertech Online WHS Induction			
		Musculoskeletal strain / sprain					Site Manager project plan			
		Fractures	C	2	H	9	Subcontractor to provide Site Manager with a JHA/SWMS involving excavation of 1.5meters and below.			
		Lacerations, bruises, dislocations	C	4	M	17	Subcontractor to upload SWMS to Perkins Hammertech project portal for review and acceptance by Site Manager prior to commencing works. Dewatering and removal of contaminated groundwater below water table (PFAS contamination) - Refer project Geotech Report			
		FB eyes					Safety glasses to be worn Site manager/Subcontractor to review and monitor compliance to SWMS			
1	12.4	Chemicals	C	4	M	17	Site Manager to segregate working groups Site Manager project planning	E	5	L 25
		Termite Treatment					Perkins Hammertech Online WHS Induction Appropriate PPE to be worn for relevant task			

PROJECT HAZARD REGISTER



1	12.5	Mobile machinery - pedestrians/third parties/dust control	Fatality	A	1	E	1	Site Manager Project plan – segregate work groups and decide site traffic flow.			
			Personnel injury					Site Isolation fence to 1.8meters and other barriers			
			Electrocution	B	2	E	5	Immobilise machinery at the end of the day			
			Injury to third party					Dust control with water cart, soil stabilisers			
			Foreign Body in eyes					Mobile plant to have reversing beeper and flashing lights. Perkins Hammertech Online WHS Induction Subcontractor to upload JHA/SWMS to Perkins Hammertech project portal for review and acceptance by Site Manager prior to commencing works.			
				C	3	H	13	Signage – Caution “Mobile machinery in operation”, Mandatory sign “High visibility vest”, Site manager to contact dial before you dig and location services Subcontractor All mobile machinery operators to be competent in operating machinery Allocated site parking for non essential vehicles Subcontractor to complete maintenance and servicing as per the manufacturers requirements All site personnel to wear High visibility vests and safety glasses and safety glasses	E	5	L 25
	12.6	Excavation to 1.5 meters	Fatality	C	2	H	9	Site isolation fence to 1.8 meters			
			Personnel Injury					Site manager to consider trench barricading, benching, de-watering.			
			Third Party Injury	B	3	H	8	Perkins Hammertech Online WHS Induction			

PROJECT HAZARD REGISTER



1		Musculoskeletal strain / sprain				Site Manager project plan						
		Fractures	C	2	H	9	Subcontractor to upload SWMS to Perkins Hammertech project portal for review and acceptance by Site Manager prior to commencing works.	E	5	L	25	
		Lacerations, bruises, dislocations FB eyes	C	4	M	17	Site manager/Subcontractor to review and monitor compliance to SWMS					
1	12.7	Excavation below 1.5 meters	Fatality	B	1	E	3	Site isolation fence to 1.8 meters				
			Personnel Injury					Site manager to consider, shoring, dewatering, overnight barricading, benching, of trench				
			Third Party Injury	B	3	H	8	Perkins Hammertech Online WHS Induction				
			Musculoskeletal strain / sprain					Site Manager project plan				
			Fractures	C	2	H	9	Subcontractor to provide Site Manager with a JHA/SWMS involving excavation of 1.5meters and below.				
			Lacerations, bruises, dislocations					Subcontractor to upload SWMS to Perkins Hammertech project portal for review and acceptance by Site Manager prior to commencing works.	D	4	L	21
		FB eyes	C	4	M	17	Site manager/Subcontractor to review and monitor compliance to JHA/SWMS					
1	12.8	Chemicals Termite Treatment	Skin/eye irritation, burns, dermatitis, sensitivity	C	4	M	17	Site Manager to segregate working groups	E	5	L	25
								Site Manager project planning				
								Perkins Hammertech Online WHS Induction				
								Appropriate PPE to be worn for relevant task				

PROJECT HAZARD REGISTER



1	12.9	Acid Sulphate Soil	Skin/eye irritation, sensitivity	C	3	H	13	Acid Sulphate Management Plan to be established if contaminated soil discovered	E	5	L	25
1	12.10	Bitumen/Asphalt	Burns, rashes or allergies from contact with bare skin					Perkins Hammertech Online WHS Induction				
			Hot mix/emulsion burns	B	3	H	8	SDS and risk assessments available on site via Perkins Hammertech project portal First aid kits on site and first aid officer on site Appropriate PPE to be worn by all personnel for task Fire extinguishers on site and fitted to machines	D	5	L	23
				B	4	H	12	Ensure personnel are trained and competent in the use of Mobile plant & equipment, using hazardous substances, hot materials, PPE & Fire extinguishers.				
1	12.11	Heat	Fatality	B	1	E	3	Regular rest breaks				
			UV					Provision of clean drinking water. Education at toolbox meetings and induction Provision of hats. Appropriate PPE to worn for task	D	4	L	21
			Illness									
			Heat exhaustion									
			UV burns	C	3	H	13					
			Fatigue									
1	12.12	Traffic Management	Road Traffic Accident					Traffic management Plan to be developed and implemented				
			Fatality	B	1	E	3	Hard barricading and signage required appropriate for speed of carriageway	D	1	H	10
			Vehicle collision with worker					Abide by speed limit and traffic management				
	13	LANDSCAPING & IRRIGATION										
	13.1	Manual handling	Permanent disability	B	2	E	5	Use of mobile plant, ditch witches, Dingo front end loader, skid steer loaders,				
			Musculoskeletal strain / sprain					Team lifting				

PROJECT HAZARD REGISTER



1		Crush injuries				Perkins Hammertech Online WHS Induction	D	4	L	21	
		Lacerations	B	3	H	8	PPE ,safety boots, gloves, safety glasses to worn for relevant tasks				
		Fractures Dislocations									
		Bruises	B	4	H	12					
1	13.2	Chemicals	Skin/eye irritation				Perkins Hammertech Online WHS Induction	D	4	L	21
				D	3	M	18	Subcontractors to supply SDS for all chemicals used on sites			
							Subcontractor to wear appropriate PPE for specific tasks.				
1	13.3	Mobile machinery - pedestrians/third parties, Dust	Fatality	A	1	E	1	Site Manager Project plan – segregate work groups and decide site traffic flow.			
			Personnel injury Electric shock	B	2	E	5	Site Isolation fence to 1.8meters Immobilise machinery at the end of the day			
			Injury to third party					Dust control with water cart, soil stabilisers			
			Foreign Body in eyes					Mobile plant to have reversing beeper and flashing lights. Perkins Hammertech Online WHS Induction Signage – Caution “Mobile machinery in operation”, Mandatory sign “High visibility vest”, Site manager to contact dial before you dig and location services Subcontractor	E	5	L
				C	3	H	13	All mobile machinery operators to be competent in operating machinery Allocated site parking for non essential vehicles Subcontractor to complete maintenance and servicing as per the manufacturers requirements All site personnel to wear High visibility vests and safety glasses			25
14 CONCRETE GENERALLY, CONCRETE PLACEMENT											
	14.1	Mobile machinery - pedestrians/third parties,	Fatality	A	1	E	1	Site Manager Project plan – segregate work groups and decide site traffic flow.			
			Personnel injury					Site Isolation fence to 1.8meters			

PROJECT HAZARD REGISTER



1		Electrocution	B	2	E	5	Immobilise machinery at the end of the day	E	5	L	25
		Injury to third party					Mobile plant to have reversing beeper and flashing lights.				
		Foreign Body in eyes					Dust control with water cart, soil stabilisers Perkins Hammertech Online WHS Induction Subcontractor to upload JHA/SWMS to Perkins Hammertech project portal for review and acceptance by Site Manager prior to commencing works. Signage – Caution “Mobile machinery in operation”, Mandatory sign “High visibility vest”, Site manager to contact dial before you dig and location services Subcontractor				
			C	3	H	13	All mobile machinery operators to be competent in operating machinery Allocated site parking for non essential vehicles Subcontractor to complete maintenance and servicing as per the manufacturers requirements All site personnel to wear High visibility vests and safety glasses				
1	14.2	Manual handling					Permanent disability	C	5	L	20
			B	2	E	5	Minimise steel cuts – order steel to correct lengths				
							Crane to lift materials close to work area where practicable				
							Use concrete pump if possible				
			B	3	H	8	Perkins Hammertech Online WHS Induction Appropriate PPE to be worn for relevant tasks				
1	14.3	Slips trips					Crush injuries	D	4	L	21
							Lacerations				
							Dislocations				
			B	4	H	12	Bruises				
			B	2	E	5	Housekeeping				
	14.4	Working at height					Fractures				
							Lacerations				
							Dislocations				
			B	4	H	12	Bruises				
			B	2	E	5	Yellow Caps on upright steel Site Manager project plan – barricading				
	14.4	Working at height					Perkins Hammertech Online WHS Induction				
							General				
			A	1	E	1	Perkins Hammertech Online WHS Induction				
			B	2	E	5	Site Manager project plan				
							Work at heights permit fall arrest / fall restraint equipment tested and tagged				
		Concreters					Fatality				
							Falling causing personal injury				
							Musculoskeletal strain / sprain / fractures				
							Loss of consciousness				
							Plant & equipment damage				

PROJECT HAZARD REGISTER



1	dropped objects					Fall arrest / fall Restraint equipment register uploaded to Perkins Hammertech project portal. Subcontractor to upload JHA/SWMS to Perkins Hammertech project portal for review and acceptance by Site Manager prior to commencing works. Erect exclusion zone to prevent dropped objects injury/damage	E	2	M	19
						Scaffold Scaffold erection by licensed scaffolder – Scaf tag Site manager visual check daily Monthly scaffold check by licensed scaffolder Site manager housekeeping hazard inspection Scaf design and handover certificates provided to Site Manager for scaffold 4m or more in height. Boom Lift Boom lift to be immobilised at the end of days work Licensed boom lift operator 11m and above Boom lift operator inspection before use Operator to inspect for services/overhead power lines/ground before driving boom on site Subcontractor to upload SWMS to Perkins Hammertech project portal for review and acceptance by Site Manager prior to commencing works. Subcontractor to complete maintenance and servicing as per the manufacturers requirements Fall arrest PPE equipment to be worn by operator Scissor Lift Scissor lift to be immobilised at the end of days work Only licenced or ticketed workers to operate scissor lifts Scissor lift operator inspection before use				
	C	3	H	13						

						Operator to inspect for services/overhead power lines/ground before driving boom on site			
						Subcontractor to complete maintenance and servicing as per the manufacturers requirements			
						Subcontractor to upload SWMS to Perkins Hammertech project portal for review and acceptance by Site Manager prior to commencing works.			
						Edge Protection on Roofs			
						Edge protection erection by licensed scaffolder – Scaf tag			
						Site manager visual check daily			
						Monthly edge protection check by licensed scaffolder			
						Subcontractor to upload SWMS to Perkins Hammertech project portal for review and acceptance by Site Manager prior to commencing works.			
						Fall arrest system			
						Roofers/plumbers/mechanical to wear fall arrest to access roof			
						Lift Wells			
						Lift shaft protection barrier with lift opening gates, signage, and night latch.			
						Site manager visual check daily			
						Subcontractor to upload SWMS to Perkins Hammertech project portal for review and acceptance by Site Manager prior to commencing works.			
						Ladder Use			
						Avoid working off a ladder - use a platform ladder where practicable			
						Place ladders in a ratio of no more than 1:4 ration			
						All ladders to be secured at top at all times and stabilised at the bottom			
						All ladders to be inspected before use			
						Practice the maintaining of three points of contact when using a ladder			
						Employ the use of all fall arrest where practicable			
						Suspended slabs			
						Edge protection			
						Site manager visual check daily			
1	14.5	Chemical				Perkins Hammertech Online WHS			
		Concrete		B	3	H	8		
						Induction			
						SDS available on site			
		Curing agent		B	4	H	12	D	5
						Appropriate PPE to worn for relevant tasks		L	23

PROJECT HAZARD REGISTER



1	15	PRECAST									
	15.1	Mobile machinery - pedestrians/third parties,	Fatality	A	1	E	1	Site Manager Project plan – segregate work groups and decide site traffic flow.			
		Personnel injury						Site Isolation fence to 1.8meters			
		Electric shock		B	2	E	5	Immobilise machinery at the end of the day			
1		Injury to third party						Mobile plant to have reversing beeper and flashing lights.			
		Foreign Body in eyes						Dust control with water cart, soil stabilisers			
								Perkins Hammertech Online WHS Induction			
								Subcontractor to upload SWMS to Perkins Hammertech project portal for review and acceptance by Site Manager prior to commencing works.	E	5	L 25
1				C	3	H	13	Signage – Caution “Mobile machinery in operation”, Mandatory sign “High visibility vest”,			
								Site manager to contact dial before you dig and location services Subcontractor			
								All mobile machinery operators to be competent in operating machinery			
								Allocated site parking for non essential vehicles			
1								Subcontractor to complete maintenance and servicing as per the manufacturers requirements			
								All site personnel to wear High visibility vests and safety glasses			
	15.2	Site placement	Fatality	C	1	E	6	Crane not to lift panels within ‘Danger Zone’ of overhead power lines as per Electrical Safety Practise.			
		In ground services	Major personnel Injury					Barricade fall zone			
1		Overhead power lines	Minor Personnel Injury					Perkins Hammertech Online WHS Induction			
		Crane placement	Electric Shock					Subcontractor to upload SWMS to Perkins Hammertech project portal for review and acceptance by Site Manager prior to commencing works.			
		Tilt panel placement						Licensed and competent site manager, crane operator and rigger			
		Delta core panel placement		C	3	H	13	Perkins Builders Tilt panel lifting procedure.	E	5	L 25
1								Site manager to contact dial before you dig and location services Subcontractor to identify services.			
								Tilt panels designed by design engineers			
								Lifting points designed by design engineers			

PROJECT HAZARD REGISTER



							Props designed by design engineers only competent persons to participate in tilt panel manufacture, lifting, bracing (including work area/zone)					
1	16 STEEL FIXING											
	16.1	Manual handling	Permanent disability	B	2	E	5	Crane to lift materials close to work area where practicable Minimise steel cuts – order steel to correct lengths Team lifting Perkins Hammertech Online WHS Induction Appropriate PPE to worn for relevant tasks	C	5	L	20
			Musculoskeletal strain / sprain									
			Crush injuries									
			Lacerations									
			Fractures	B	3	H	8					
			Dislocations									
Bruises	B	4	H	12								
1	16.2	Crane	Fatality	B	1	E	3	Correct crane for the right lift Dedicated lay down area Crane regulatory compliance update Perkins Hammertech Online WHS Induction Site Manager to inspect crane radius area – limestone track to crane placement. Licence crane driver Licensed dogman Barricade lift area Appropriate PPE to be worn for relevant tasks	E	5	L	25
			Major personnel injury									
			Crush injuries									
			Amputations	C	2	H	9					
			Minor personnel injury									
			Equipment damage	C	3	H	13					
1	16.3	Slips trips	Musculoskeletal strain / sprain	B	2	E	5	Housekeeping Site Manager project plan – barricading Yellow Caps on upright steel Perkins Hammertech Online WHS Induction	D	4	L	21
			Fractures	B	3	H	8					
			Lacerations									
			Dislocations	B	4	H	12					
1	16.4	Cuts and abrasions	Minor personnel injury	A	4	H	7	Site Manager project plan – barricading Housekeeping Perkins Hammertech Online WHS Induction Appropriate PPE to be worn for relevant tasks	D	4	L	21
1	16.5	Powered Tools	Fatality	B	1	E	3	Site has RCD protection on temporary and permanent power supply All Perkins Builders power tools to have guards in place before use. RCD tested regularly Power tools to be tested and tagged. Electrical register on site Perkins Hammertech Online WHS Induction	D	5	L	23
			Fire	B	2	E	5					
			Electrocution									
			Minor personal injury	C	2	H	9					
			Burns									

PROJECT HAZARD REGISTER



		Eye injuries				Power tools to be used by competent operators			
		Equipment Damage	C	3	H	13	Appropriate PPE to be worn for relevant tasks		
1	16.6	Oxy Acetylene	Fire	C	1	E	6	Flash back arrestors in place	
		Burns						All gas cylinder to be chained in position	
		Eye injuries						Perkins Hammertech Online WHS Induction	
		Equipment Damage	C	3	H	13	Site to have fire extinguisher	D	4
							Hot work permit (Principal Permit System requirements)		L
							Emergency Site plan		21
							Appropriate PPE to be worn for relevant tasks		
1	16.7	Cutting and grinding	Fatality	C	1	E	6	Use of equipment to manufactures specification	
		Major Personnel injury						Correct selection of disc for the task	
		Fire	B	4	H	12	Perkins Hammertech Online WHS Induction		
		Electric Shock						Appropriate PPE to be worn for relevant tasks	
		Lacerations, Burns	C	3	H	13		D	4
		Minor personnel injury							L
		Eye injuries							21
		Equipment Damage							
17 STRUCTURAL STEELWORK									
	17.1	Working at height	Fatality	A	1	E	1	General	
		Steel erectors/riggers	Falling causing personal injury					Perkins Hammertech Online WHS Induction	
			Musculoskeletal strain / sprain / fractures	B	2	E	5	Site Manager project plan	
			Loss of consciousness					Subcontractor to upload SWMS to Perkins Hammertech project portal for review and acceptance by Site Manager prior to commencing works.	
			Plant & equipment damage					Erect exclusion zone to prevent dropped objects injury/damage	
			dropped objects					Scaffold	
								Scaffold erection by licensed scaffolder – Scaf tag	
								Site manager visual check daily	
								Monthly scaffold check by licensed scaffolder	
								Site manager housekeeping hazard inspection	
								Boom Lift	
								Boom lift to be immobilised at the end of days work	

1		C	3	H	Licensed boom lift operator 11m and above Boom lift operator inspection before use Operator to inspect for services/overhead power lines/ground before driving boom on site Subcontractor to upload SWMS to Perkins Hammertech project portal for review and acceptance by Site Manager prior to commencing works. Subcontractor to complete maintenance and servicing as per the manufacturers requirements Fall arrest PPE equipment to be worn by operator Scissor Lift Scissor lift to be immobilised at the end of days work Appropriate licenced or ticketed worker only to operate scissor lift Scissor lift operator inspection before use Operator to inspect for services/overhead power lines/ground before driving boom on site Subcontractor to complete maintenance and servicing as per the manufacturers requirements If working near overhead power lines, overhead power lines isolated with tiger tails complete before starting task Edge Protection on Roofs Edge protection erection by licensed scaffolder – Scaf tag Site manager visual check daily Monthly edge protection check by licensed scaffolder Subcontractor to complete a SWMS for access to roof Fall arrest system Roofers/plumbers/mechanical to wear fall arrest to access roof Lift Wells Lift shaft protection barrier with lift opening gates, signage, and night latch. Site manager visual check daily Subcontractor to complete a SWMS for lift install Ladder Use	E	2	M	19
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PROJECT HAZARD REGISTER



1						Avoid working off a ladder - use a platform ladder where practicable Place ladders in a ratio of no more than 1:4 ration All ladders to be secured at top at all times and stabilised at the bottom All ladders to be inspected before use Practice the maintaining of three points of contact when using a ladder Employ the use of all fall arrest where practicable Suspended slabs Edge protection Site manager visual check daily					
	17.2	Oxy Acetylene	Fire	C	1	E	6	Flash back arrestors in place			
1			Burns					All gas cylinder to be chained in position			
			Eye injuries					Perkins Hammertech Online WHS Induction			
			Equipment Damage	C	3	H	13	Site to have fire extinguisher Hot work permit (Principal Permit System requirements) Emergency Site plan Appropriate PPE to be worn for relevant tasks	D	4	L 21
1	17.3	Crane	Fatality	B	1	E	3	Correct crane for the right lift			
			Major personnel injury					Dedicated lay down area			
			Crush injuries					Crane regulatory compliance update			
			Amputations	C	2	H	9	Perkins Hammertech Online WHS Induction			
			Minor personnel injury					Site Manager to inspect crane radius area – limestone track to crane placement.	E	5	L 25
			Equipment damage	C	3	H	13	Licence crane driver Licensed dogman Barricade lift area Appropriate PPE to be worn for relevant tasks			
1	17.4	Powered Tools	Fatality	B	1	E	3	Site has RCD protection on temporary and permanent power supply			
			Fire	B	2	E	5	All Perkins Builders power tools to have guards in place before use.			
			Electrocution					RCD tested regularly			
			Minor personal injury	C	2	H	9	Power tools to be tested and tagged.	D	5	L 23
			Burns					Electrical register on site			
			Eye injuries					Perkins Hammertech Online WHS Induction			
			Equipment Damage	C	3	H	13	Power tools to be used by competent operators Appropriate PPE to be worn for relevant tasks			

PROJECT HAZARD REGISTER



1	17.5	Mobile machinery - pedestrians/third parties,	Fatality	A	1	E	1	Site Manager Project plan – segregate work groups and decide site traffic flow.	E	5	L	25
			Personnel injury	B	2	E	5	Site Isolation fence to 1.8meters				
			Electric shock					Immobilise machinery at the end of the day				
			Injury to third party					Mobile plant to have reversing beeper and flashing lights.				
1	17.6	Manual handling	Foreign Body in eyes	C	3	H	13	Dust control with water cart, soil stabilisers Perkins Hammertech Online WHS Induction Subcontractor to upload SWMS to Perkins Hammertech project portal for review and acceptance by Site Manager prior to commencing works. Signage – Caution “Mobile machinery in operation”, Mandatory sign “High visibility vest”, Site manager to contact dial before you dig and location services Subcontractor	C	5	L	20
			Permanent disability					All mobile machinery operators to be competent in operating machinery				
			Musculoskeletal strain / sprain					Allocated site parking for non essential vehicles				
			Crush injuries	B	3	H	8	Subcontractor to complete maintenance and servicing as per the manufacturers requirements				
			Lacerations					All site personnel to wear High visibility vests and safety glasses				
			Fractures					Crane to lift materials close to work area where practicable				
			Dislocations	B	4	H	12	Minimise steel cuts – order steel to correct lengths				
1	17.7	Slips trips	Bruises					Team lifting	D	4	L	21
			Musculoskeletal strain / sprain	B	2	E	5	Perkins Hammertech Online WHS Induction				
			Fractures	B	3	H	8	Site Manager project plan – barricading				
			Lacerations	B	4	H	12	Yellow Caps on upright steel				
			Dislocations	B	4	H	12	Perkins Hammertech Online WHS Induction				
	17.8	Cuts and abrasions	Minor Personal Injury					Housekeeping				
								Housekeeping				

PROJECT HAZARD REGISTER



1				A	4	H	7	Perkins Hammertech Online WHS Induction Appropriate PPE to be worn for relevant tasks	D	4	L	21
1	17.9	Cutting and grinding	Fatality	C	1	E	6	Use of equipment to manufactures specification	D	4	L	21
			Major Personnel injury	B	4	H	12	Correct selection of disc for the task				
			Fire				Perkins Hammertech Online WHS Induction					
			Electric Shock				Appropriate PPE to be worn for relevant tasks					
			Lacerations, Burns	C	3	H	13					
			Minor personnel injury Eye injuries Equipment Damage									
18 PILING												
1	18.1	Mobile machinery - pedestrians/third parties/dust control	Fatality	A	1	E	1	Mobile plant compliance Site Manager Project plan – segregate work groups and decide site traffic flow.	E	5	L	25
			Personnel injury	B	2	E	5	Site Isolation fence to 1.8meters				
			Electrocution				Immobilise machinery at the end of the day					
			Injury to third party				Dust control with water cart, soil stabilisers					
			Foreign Body in eyes	C	3	H	13	Mobile plant to have reversing beeper and flashing lights. Perkins Hammertech Online WHS Induction Subcontractor to upload SWMS to Perkins Hammertech project portal for review and acceptance by Site Manager prior to commencing works. Signage – Caution “Mobile machinery in operation”, Mandatory sign “High visibility vest”, Site manager to contact dial before you dig and location services Subcontractor				

PROJECT HAZARD REGISTER

1		Third Party Injury	B	3	H	8	Perkins Hammertech Online WHS Induction Site Manager project plan	E	5	L	25	
		Musculoskeletal strain / sprain										
		Fractures	C	2	H	9	Subcontractor to upload SWMS to Perkins Hammertech project portal for review and acceptance by Site Manager prior to commencing works.					
		Lacerations, bruises, dislocations FB eyes	C	4	M	17	Safety glasses to be worn Site manager/Subcontractor to review and monitor compliance to SWMS					
1	18.3	Excavation below 1.5 meters	Fatality	B	1	E	3	Site isolation fence to 1.8 meters	D	4	L	21
			Personnel Injury					Site manager to consider, shoring, dewatering, overnight barricading, benching, of trench				
			Third Party Injury	B	3	H	8	Perkins Hammertech Online WHS Induction Site Manager project plan				
			Musculoskeletal strain / sprain									
			Fractures	C	2	H	9	Subcontractor to upload SWMS to Perkins Hammertech project portal for review and acceptance by Site Manager prior to commencing works.				
			Lacerations, bruises, dislocations FB eyes	C	4	M	17	Appropriate PPE to be worn for relevant tasks Site manager/Subcontractor to review and monitor compliance to SWMS				
1	18.4	Manual Handling	Permanent disability	B	2	E	5	Mobile plant to lift materials	C	5	L	20
			Musculoskeletal strain / sprain					Ensure loads are secured/tied down				
			Crush injuries					Team lifting - correct lifting techniques				
			Lacerations					Perkins Hammertech Online WHS Induction				
			Fractures	B	3	H	8	Appropriate PPE to be worn for relevant tasks				
			Dislocations									
			Bruises	B	4	H	12					
19 FORMWORK												
1	19.1	Manual handling	Permanent disability	B	2	E	5	Crane to lift materials close to work area where practicable	C	5	L	20
			Musculoskeletal strain / sprain					Minimise steel cuts – order steel to correct lengths				
			Crush injuries					Team lifting				
			Lacerations					Perkins Hammertech Online WHS Induction				
			Fractures	B	3	H	8	Appropriate PPE to be worn for relevant tasks				
			Dislocations									
	Bruises	B	4	H	12							

PROJECT HAZARD REGISTER



1	19.2	Slips trips	Musculoskeletal strain / sprain	B	2	E	5	Housekeeping	D	4	L	21
			Fractures	B	3	H	8	Site Manager project plan – barricading				
			Lacerations					Yellow Caps on upright steel				
			Dislocations	B	4	H	12	Perkins Hammertech Online WHS Induction				
			Bruises									
1	19.3	Cuts and abrasions	Minor Personal Injury					Site Manager project plan – barricading	D	4	L	21
				A	4	H	7	Housekeeping Perkins Hammertech Online WHS Induction Appropriate PPE to be worn for relevant tasks				
1	19.4	Powered Tools	Fatality	B	1	E	3	Site has RCD protection on temporary and permanent power supply	D	5	L	23
			Fire	B	2	E	5	All Perkins Builders power tools to have guards in place before use.				
			Electrocution					RCD tested regularly				
			Minor personal injury	C	2	H	9	Power tools to be tested and tagged.				
			Burns					Electrical register on site Perkins Hammertech Online WHS Induction				
			Eye injuries	C	3	H	13	Power tools to be used by competent operators				
1	19.5	Confined Spaces	Fatality					Gas test confined space before entry	D	3	M	18
			Lift wells Fire tanks Pump Rooms					WHS Perkins Inductions Site Manager to issue 'Permit to Enter Confined Space' Subcontractor to upload JHA/SWMS to Perkins Hammertech project portal for review and acceptance by Site Manager prior to commencing works. Safety glasses to be worn Contract Manager/Administrator to identify Confined Space at the design stage of project. Perkins Confined Space – Safety Practice.				
1	19.6	Cutting and grinding	Fatality	C	1	E	6	Use of equipment to manufactures specification	D	4	L	21
			Major Personnel injury					Correct selection of disc for the task				
			Fire	B	4	H	12	Perkins Hammertech Online WHS Induction				
			Electric Shock					Appropriate PPE to be worn for relevant tasks				
			Lacerations, Burns Minor personnel injury Eye injuries Equipment Damage	C	3	H	13					

PROJECT HAZARD REGISTER



1	19.7 Quick cut saw	Fatality	B	1	E	3	Perkins Hammertech Online WHS Induction	D	4	L	21
		Major personnel injury					Use of equipment to manufactures specification				
		Burns					Quick cut saw only to be used in the down position				
		Minor personnel injury fractures	C	2	H	9	Sufficient ventilation for petrol driven quick cut saws				
		Eye injuries					Site Manager to establish if operator is competent.				
		Equipment Damage					Appropriate PPE to be worn for relevant tasks				
1	19.8 Crane	Fatality	B	1	E	3	Correct crane for the right lift	E	5	L	25
		Major personnel injury					Dedicated lay down area				
		Crush injuries	C	2	H	9	Crane regulatory compliance update				
		Amputations					Perkins Hammertech Online WHS Induction				
		Minor personnel injury					Site Manager to inspect crane radius area – limestone track to crane placement.				
		Equipment damage	C	3	H	13	Licence crane driver Licensed dogman Barricade lift area Appropriate PPE to be worn for relevant tasks				
1	19.9 Mobile machinery - pedestrians/third parties,	Fatality	A	1	E	1	Site Manager Project plan – segregate work groups and decide site traffic flow.	E	5	L	25
		Personnel injury					Site Isolation fence to 1.8meters				
		Electric shock	B	2	E	5	Immobilise machinery at the end of the day				
		Injury to third party					Mobile plant to have reversing beeper and flashing lights.				
		Foreign Body in eyes					Dust control with water cart, soil stabilisers				
							Perkins Hammertech Online WHS Induction				
							Subcontractor to upload SWMS to Perkins Hammertech project portal for review and acceptance by Site Manager prior to commencing works.				
							Signage – Caution “Mobile machinery in operation”, Mandatory sign “High visibility vest”,				
			C	3	H	13	Site manager to contact dial before you dig and location services Subcontractor				
							All mobile machinery operators to be competent in operating machinery				
							Allocated site parking for non essential vehicles				
							Subcontractor to complete maintenance and servicing as per the manufacturers requirements				

PROJECT HAZARD REGISTER



						All site personnel to wear High visibility vests and safety glasses and safety glasses		
19.10	Working at height	Fatality				General		
	Form workers & other workers in area	Falling causing personal injury	A	1	E	1	Perkins Hammertech Online WHS Induction	
		Musculoskeletal strain / sprain / fractures	B	2	E	5	Site Manager project plan	
		Loss of consciousness					Subcontractor to upload SWMS to Perkins Hammertech project portal for review and acceptance by Site Manager prior to commencing works.	
		Plant & equipment damage dropped objects					Erect exclusion zone to prevent dropped objects injury/damage holes or penetrations in deck of 200mm x 200mm or more, but less than 2m x 2m (excluding lift shaft, stairwell or vehicle pit) shall be covered and secured marked with 'Danger - hole beneath' holes or penetrations in concrete of 200mm x 200mm or more, but less than 2m x 2m (excluding lift shaft, stairwell or vehicle pit) shall have wire mesh (4mm in diameter with apertures of 75mm x 75mm installed into concrete edges (no less than 200mm) and covered and secured with material strong enough to withstand weight of person/plant and marked with 'Danger - hole beneath'.	
							Scaffold	
							Scaffold erection by licensed scaffolder – Scaf tag	
							Site manager visual check daily	
							Monthly scaffold check by licensed scaffolder	
							Site manager housekeeping hazard inspection	
							Boom Lift	
							Boom lift to be immobilised at the end of days work	
							Licensed boom lift operator 11m and above	
							Boom lift operator inspection before use	
							Operator to inspect for services/overhead power lines/ground before driving boom on site	
							Subcontractor to upload SWMS to Perkins Hammertech project portal for review and acceptance by Site Manager prior to commencing works.	

1				Subcontractor to complete maintenance and servicing as per the manufacturers requirements Fall arrest PPE equipment to be worn by operator Scissor Lift Scissor lift to be immobilised at the end of days work Only a licenced or ticketed worker is to operate scissor lift Scissor lift operator inspection before use Operator to inspect for services/overhead power lines/ground before driving boom on site Subcontractor to complete maintenance and servicing as per the manufacturers requirements Subcontractor to upload SWMS to Perkins Hammertech project portal for review and acceptance by Site Manager prior to commencing works. Edge Protection on Roofs Edge protection erection by licensed scaffolder – Scaf tag Site manager visual check daily Monthly edge protection check by licensed scaffolder Subcontractor to upload SWMS to Perkins Hammertech project portal for review and acceptance by Site Manager prior to commencing works. Fall arrest system Roofers/plumbers/mechanical to wear fall arrest to access roof Lift Wells Lift shaft protection barrier with lift opening gates, signage, and night latch. Site manager visual check daily Subcontractor to complete a SWMS for lift install Ladder Use Avoid working off a ladder - use a platform ladder where practicable Place ladders in a ratio of no more than 1:4 ration All ladders to be secured at top at all times and stabilised at the bottom All ladders to be inspected before use Practice the maintaining of three points of contact when using a ladder Employ the use of all fall arrest where practicable	E	2	M	19
	C	3	H	13				

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1	dropped objects				Scaffold Scaffold erection by licensed scaffolder – Scaf tag Site manager visual check daily Monthly scaffold check by licensed scaffolder Site manager housekeeping hazard inspection Boom Lift Boom lift to be immobilised at the end of days work Licensed boom lift operator 11m and above Boom lift operator inspection before use Operator to inspect for services/overhead power lines/ground before driving boom on site Subcontractor to upload SWMS to Perkins Hammertech project portal for review and acceptance by Site Manager prior to commencing works. Subcontractor to complete maintenance and servicing as per the manufacturers requirements Fall arrest PPE equipment to be worn by operator Scissor Lift Scissor lift to be immobilised at the end of days work Only licenced or ticketed workers are to moperate scissor lift Scissor lift operator inspection before use Operator to inspect for services/overhead power lines/ground before driving boom on site Subcontractor to complete maintenance and servicing as per the manufacturers requirements If working near overhead power lines, overhead power lines isolated with tiger tails complete before starting task Edge Protection on Roofs Edge protection erection by licensed scaffolder – Scaf tag Site manager visual check daily Monthly edge protection check by licensed scaffolder	D	5	L	23
		C	3	H	13				

PROJECT HAZARD REGISTER



							Subcontractor to upload JHA/SWMS to Perkins Hammertech project portal for review and acceptance by Site Manager prior to commencing works. Fall arrest system Roofers/plumbers/mechanical to wear fall arrest to access roof Lift Wells Lift shaft protection barrier with lift opening gates, signage, and night latch. Site manager visual check daily Subcontractor to upload SWMS to Perkins Hammertech project portal for review and acceptance by Site Manager prior to commencing works. Ladder Use Avoid working off a ladder - use a platform ladder where practicable Place ladders in a ratio of no more than 1:4 ration All ladders to be secured at top at all times and stabilised at the bottom All ladders to be inspected before use Practice the maintaining of three points of contact when using a ladder Employ the use of all fall arrest where practicable Suspended slabs Edge protection Site manager visual check daily				
1	20.6 Chemicals	Causes alkaline burns to skin	B	2	E	5	Perkins Hammertech Online WHS Induction	D	4	L	21
	Lime burn	Irritating and corrosive to eyes and throat Irritating and drying to the skin	C	3	H	13	Appropriate PPE to be worn for relevant tasks				
	21 HYDRAULICS (INCLUDING STORMWATER)										
1	21.1 Excavation to 1.5 meters	Fatality	B	1	E	3	Site isolation fence to 1.8 meters				
		Personnel Injury					Site manager to consider trench barricading, benching, de-watering.				
		Third Party Injury	B	3	H	8	Perkins Hammertech Online WHS Induction Site Manager project plan				
		Musculoskeletal strain / sprain									
		Fractures	C	2	H	9	Subcontractor to upload JHA/SWMS to Perkins Hammertech project portal for review and acceptance by Site Manager prior to commencing works.	E	5	L	25
		Lacerations, bruises, dislocations FB eyes	C	4	M	17	Appropriate PPE to be worn for relevant tasks Site manager/Subcontractor to review and monitor compliance to SWMS				

PROJECT HAZARD REGISTER



1	21.2	Excavation below 1.5 meters	Fatality	B	1	E	3	Site isolation fence to 1.8 meters	D	4	L	21
			Personnel Injury					Site manager to consider, shoring, de-watering, overnight barricading, benching, of trench				
			Third Party Injury	B	3	H	8	Perkins Hammertech Online WHS Induction				
			Musculoskeletal strain / sprain					Site Manager project plan				
			Fractures	C	2	H	9	Subcontractor to upload SWMS to Perkins Hammertech project portal for review and acceptance by Site Manager prior to commencing works.				
			Lacerations, bruises, dislocations FB eyes	C	4	M	17	Site manager/Subcontractor to review and monitor compliance to SWMS Appropriate PPE to be worn for relevant tasks				
1	21.3	Confined Space	Fatality					Gas test confined space before entry	E	2	M	19
			Drainage sumps					OSH/WHS Perkins Inductions				
			Sewerage sumps					Site Manager to issue 'Permit to Enter Confined Space'				
			Trenches					Subcontractor to provide Site Manager with a JHA/SWMS involving confined space.				
			Swimming pool filters	C	1	E	6	Site Manager to conduct JHA/SWMS before entry				
			Balance tanks					Contract Manager/Administrator to identify Confined Space at the design stage of project. Perkins Confined Space – Safety Practice.				
	21.4	Working at height	Fatality					General				
			Plumbing	A	1	E	1	Perkins Hammertech Online WHS Induction				
			Falling causing personal injury					Subcontractor to upload SWMS to Perkins Hammertech project portal for review and acceptance by Site Manager prior to commencing works.				
			Loss of consciousness					Erect exclusion zone to prevent dropped objects injury/damage				
			Plant & equipment damage dropped objects					Scaffold Scaffold erection by licensed scaffolder – Scaf tag Site manager visual check daily Monthly scaffold check by licensed scaffolder Site manager housekeeping hazard inspection				
								Boom Lift Boom lift to be immobilised at the end of days work				

1		C	3	H	Licensed boom lift operator 11m and above Boom lift operator inspection before use Operator to inspect for services/overhead power lines/ground before driving boom on site Subcontractor to upload SWMS to Perkins Hammertech project portal for review and acceptance by Site Manager prior to commencing works. Subcontractor to complete maintenance and servicing as per the manufacturers requirements Fall arrest PPE equipment to be worn by operator Scissor Lift Scissor lift to be immobilised at the end of days work Only licenced or ticketed workers are to operate scissor lifts Scissor lift operator inspection before use Operator to inspect for services/overhead power lines/ground before driving boom on site Subcontractor to complete maintenance and servicing as per the manufacturers requirements If working near overhead power lines, overhead power lines isolated with tiger tails complete before starting task Edge Protection on Roofs Edge protection erection by licensed scaffolder – Scaf tag Site manager visual check daily Monthly edge protection check by licensed scaffolder Subcontractor to complete a SWMS for access to roof Fall arrest system Roofers/plumbers/mechanical to wear fall arrest to access roof Lift Wells Lift shaft protection barrier with lift opening gates, signage, and night latch. Site manager visual check daily Subcontractor to upload SWMS to Perkins Hammertech project portal for review and acceptance by Site Manager prior to commencing works.	E	2	M	19
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PROJECT HAZARD REGISTER



							Ladder Use Avoid working off a ladder - use a platform ladder where practicable Place ladders in a ratio of no more than 1:4 ration All ladders to be secured at top at all times and stabilised at the bottom All ladders to be inspected before use Practice the maintaining of three points of contact when using a ladder Employ the use of all fall arrest where practicable Suspended slabs Edge protection Site manager visual check daily				
1	21.5 Manual handling	Permanent disability Musculoskeletal strain / sprain Crush injuries Lacerations Fractures Dislocations Bruises	B B B	2 3 4	E H H	5 8 12	Crane to lift materials close to work area where practicable Minimise steel cuts – order steel to correct lengths Perkins Hammertech Online WHS Induction Appropriate PPE to be worn for relevant tasks	C	5	L	20
1	21.6 Slips trips	Musculoskeletal strain / sprain Fractures Lacerations Dislocations Bruises	B B B	2 3 4	E H H	5 8 12	Site Manager project plan – barricading Yellow Caps on upright steel Perkins Hammertech Online WHS Induction Housekeeping	D	4	L	21
1	21.7 Cuts and abrasions	Minor Personal Injury	A	4	H	7	Site Manager project plan – barricading Housekeeping Perkins Hammertech Online WHS Induction Appropriate PPE to be worn for relevant tasks	D	4	L	21
1	21.8 Powered Tools	Fatality Fire Electrocution Minor personal injury Burns Eye injuries Equipment Damage	B B C C	1 2 2 3	E E H H	3 5 9 13	Site has RCD protection on temporary and permanent power supply All Perkins Builders power tools to have guards in place before use. RCD tested regularly Power tools to be tested and tagged. Electrical register on site Perkins Hammertech Online WHS Induction Power tools to be used by competent operators Appropriate PPE to be worn for relevant tasks	D	5	L	23

PROJECT HAZARD REGISTER



1	21.9 Crane	Fatality	B	1	E	3	Correct crane for the right lift	E	5	L	21
		Major personnel injury					Dedicated lay down area				
		Crush injuries	C	2	H	9	Crane regulatory compliance update				
		Amputations					Perkins Hammertech Online WHS Induction				
		Minor personnel injury					Site Manager to inspect crane radius area – limestone track to crane placement.				
		Equipment damage	C	3	H	13	Licence crane driver Licensed dogman Barricade lift area Appropriate PPE to be worn for relevant tasks				
1	21.10 Chemicals	Causes alkaline burns to skin	B	3	H	8	Perkins Hammertech Online WHS Induction	D	4	L	21
		Irritating and corrosive to eyes and throat					Subcontractors to supply SDS for all chemicals used on sites				
		Irritating and drying to the skin	B	4	H	12	Subcontractor to wear PPE for specific tasks.				
1	21.11 Oxy Acetylene Welding	Fire	C	1	E	6	Flash back arrestors in place	D	4	L	21
		Burns					All gas cylinder to be chained in position				
		Eye injuries					Perkins Hammertech Online WHS Induction				
		Equipment Damage	C	3	H	13	Site to have fire extinguisher Hot work permit (Principal Permit System requirements) Emergency Site plan Appropriate PPE to be worn for relevant tasks				
22 ELECTRICAL SERVICES											
1	22.1 Excavation to 1.5 meters	Fatality	B	1	E	3	Site isolation fence to 1.8 meters	E	5	L	25
		Personnel Injury					Site manager to consider trench barricading, benching, de-watering.				
		Third Party Injury	B	3	H	8	Perkins Hammertech Online WHS Induction				
		Musculoskeletal strain / sprain					Site Manager project plan				
		Fractures					Subcontractor to upload SWMS to Perkins Hammertech project portal for review and acceptance by Site Manager prior to commencing works.				
		Lacerations, bruises, dislocations FB eyes	C	2	H	9	Appropriate PPE to be worn for relevant tasks Site manager/Subcontractor to review and monitor compliance to SWMS				
	22.2 Working at height Electricians	Fatality	B	2	E	5	General				
		Falling causing personal injury					Perkins Hammertech Online WHS Induction				
		Musculoskeletal strain / sprain / fractures					Site Manager project plan				

1	dropped objects		B	2	E	5	Subcontractor to upload SWMS to Perkins Hammertech project portal for review and acceptance by Site Manager prior to commencing works. Erect exclusion zone to prevent dropped objects injury/damage Scaffold Scaffold erection by licensed scaffolder – Scaf tag Site manager visual check daily Monthly scaffold check by licensed scaffolder Site manager housekeeping hazard inspection Boom Lift Boom lift to be immobilised at the end of days work Licensed boom lift operator 11m and above Boom lift operator inspection before use If working near overhead power lines, overhead power lines isolated with tiger tails complete before starting task Subcontractor to complete maintenance and servicing as per the manufacturers requirements Fall arrest PPE equipment to be worn by operator Scissor Lift Scissor lift to be immobilised at the end of days work Only licenced or ticketed workers are to operate scissor lifts Scissor lift operator inspection before use Operator to inspect for services/overhead power lines/ground before driving boom on site	E	2	M	19
	Subcontractor to complete maintenance and servicing as per the manufacturers requirements If working near overhead power lines, overhead power lines isolated with tiger tails complete before starting task Edge Protection on Roofs Edge protection erection by licensed scaffolder – Scaf tag Site manager visual check daily Monthly edge protection check by licensed scaffolder										

PROJECT HAZARD REGISTER



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PROJECT HAZARD REGISTER



1	22.5	Cuts and abrasions	Minor Personal Injury	A	4	H	7	Site Manager project plan – barricading Housekeeping Perkins Hammertech Online WHS Induction Appropriate PPE to be worn for relevant tasks	D	4	L	21
1	22.6	Powered Tools	Fatality	B	1	E	3	Site has RCD protection on temporary and permanent power supply	D	5	L	23
		Fire		B	2	E	5	All Perkins Builders power tools to have guards in place before use.				
		Electrocution						RCD tested regularly				
		Minor personal injury		C	2	H	9	Power tools to be tested and tagged. Electrical register on site				
		Burns						Perkins Hammertech Online WHS Induction				
		Eye injuries		C	3	H	13	Power tools to be used by competent operators				
		Equipment Damage						Appropriate PPE to be worn for relevant tasks				
1	22.7	Chemicals	Causes alkaline burns to skin	B	3	H	8	Perkins Hammertech Online WHS Induction	D	4	L	21
		Irritating and corrosive to eyes and throat						Subcontractors to supply SDS for all chemicals used on sites				
		Irritating and drying to the skin		B	4	H	12	Subcontractor to wear PPE for specific tasks.				
1	22.8	Electricity	Fatality	A	1	E	1	Site Manager to instruct electrician when to make the site live				
		Electric Shock		A	3	E	4	Site has RCD protection on temporary and permanent power supply				
		Burns						Perkins Builder Isolation safety practice – Danger tags/Out Service Tag				
		Equipment Damage		B	3	H	8	Perkins Hammertech Online WHS Induction Electrical Subcontractor Principal licence holder Licensed electricians to do electrical work Isolation permit (Principal Permit System requirements) RCD tested regularly Power tools to be tested and tagged. Electrical register on site	E	2	M	19
23 MECHANICAL SERVICES												
1	23.1	Excavation to 1.5 meters	Fatality	B	1	E	3	Site isolation fence to 1.8 meters				
		Personnel Injury						Site manager to consider trench barricading, benching, de-watering.				
		Third Party Injury		B	3	H	8	Perkins Hammertech Online WHS Induction				
		Musculoskeletal strain / sprain						Site Manager project plan	F	5	I	25

PROJECT HAZARD REGISTER



			Fractures	C	2	H	9	Subcontractor to upload JHA/SWMS to Perkins Hammertech project portal for review and acceptance by Site Manager prior to commencing works.				
			Lacerations, bruises, dislocations FB eyes	C	4	M	17	Appropriate PPE to be worn for relevant tasks Site manager/Subcontractor to review and monitor compliance to SWMS				
	23.2	Working at height	Fatality					General				
			Electricians	A	1	E	1	Perkins Hammertech Online WHS Induction				
			Air conditioning technicians	B	2	E	5	Site Manager project plan				
			Musculoskeletal strain / sprain / fractures					Subcontractor to upload SWMS to Perkins Hammertech project portal for review and acceptance by Site Manager prior to commencing works.				
			Loss of consciousness					Erect exclusion zone to prevent dropped objects injury/damage Appropriate PPE to be worn for relevant tasks				
			Plant & equipment damage dropped objects					Scaffold Scaffold erection by licensed scaffolder – Scaf tag Site manager visual check daily Monthly scaffold check by licensed scaffolder Site manager housekeeping hazard inspection				
								Boom Lift Boom lift to be immobilised at the end of days work Licensed boom lift operator 11m and above Boom lift operator inspection before use				
								Operator to inspect for services/overhead power lines/ground before driving boom on site				
								Subcontractor to complete maintenance and servicing as per the manufacturers requirements Fall arrest PPE equipment to be worn by operator				
								Scissor Lift Scissor lift to be immobilised at the end of days work Only licenced or ticketed workers to operate scissor lifts Scissor lift operator inspection before use				

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PROJECT HAZARD REGISTER



		Lacerations	B	3	H	8	Appropriate PPE to be worn for relevant tasks			
		Fractures								
		Dislocations								
		Bruises	B	4	H	12				
1	23.4 Crane	Fatality	B	1	E	3	Correct crane for the right lift			
		Major personnel injury					Dedicated lay down area			
		Crush injuries					Crane regulatory compliance update			
		Amputations	C	2	H	9	Perkins Hammertech Online WHS Induction			
		Minor personnel injury					Site Manager to inspect crane radius area – limestone track to crane placement.	E	5	L 21
		Equipment damage	C	3	H	13	Licence crane driver Licensed dogman Barricade lift area Appropriate PPE to be worn for relevant tasks			
1	23.5 Slips trips	Musculoskeletal strain / sprain	B	2	E	5	Site Manager project plan – barricading			
		Fractures	B	3	H	8	Yellow Caps on upright steel	D	4	L 21
		Lacerations					Perkins Hammertech Online WHS Induction			
		Dislocations	B	4	H	12	Housekeeping			
		Bruises								
1	23.6 Cuts and abrasions	Minor Personal Injury	A	4	H	7	Site Manager project plan – barricading Housekeeping Perkins Hammertech Online WHS Induction Appropriate PPE to be worn for relevant tasks	D	4	L 21
1	23.7 Powered Tools	Fatality	B	1	E	3	Site has RCD protection on temporary and permanent power supply			
		Fire	B	2	E	5	All Perkins Builders power tools to have guards in place before use.			
		Electrocution					RCD tested regularly			
		Minor personal injury	C	2	H	9	Power tools to be tested and tagged. Electrical register on site	D	5	L 23
		Burns					Perkins Hammertech Online WHS Induction			
		Eye injuries					Power tools to be used by competent operators			
		Equipment Damage	C	3	H	13	Appropriate PPE to be worn for relevant tasks			
1	23.8 Chemicals	Causes alkaline burns to skin	B	3	H	8	Perkins Hammertech Online WHS Induction	D	4	L 21
		Irritating and corrosive to eyes and throat					Subcontractors to supply SDS for all chemicals used on sites			
		Irritating and drying to the skin	B	4	H	12	Subcontractor to wear PPE for specific tasks.			

PROJECT HAZARD REGISTER



1	23.9	Electricity	Fatality	A	1	E	1	Site has RCD protection on temporary and permanent power supply	E	2	M	19	
			Electric Shock	A	3	E	4	Perkins Builder Isolation safety practice – Danger tags/Out Service Tag					
			Burns					Perkins Hammertech Online WHS Induction					
			Equipment Damage	B	3	H	8	Electrical Subcontractor Principal licence holder Licensed electricians to do electrical work Isolation permit (Principal Permit System requirements) RCD tested regularly Power tools to be tested and tagged. Electrical register on site					
1	23.10	Oxy Acetylene Welding	Fire	C	1	E	6	Flash back arrestors in place	D	4	L	21	
			Burns					All gas cylinder to be chained in position					
			Eye injuries					Perkins Hammertech Online WHS Induction					
			Equipment Damage	C	3	H	13	Site to have fire extinguisher Hot work permit (Principal Permit System requirements) Emergency Site plan Appropriate PPE to be worn for relevant tasks					
24 LIFT													
1	24.1	Working at heights	Fatality	A	1	E	1	General	E	2	M	19	
			Electricians	Falling causing personal injury									Perkins Hammertech Online WHS Induction
			Lift technicians	Musculoskeletal strain / sprain / fractures	B	2	E	5					Site Manager project plan
			Loss of consciousness					Subcontractor to upload SWMS to Perkins Hammertech project portal for review and acceptance by Site Manager prior to commencing works. Erect exclusion zone to prevent dropped objects injury/damage					
			Plant & equipment damage dropped objects	C	3	H	13	Lift Wells Lift shaft protection barrier with lift opening gates, signage, and night latch. Site manager visual check daily Subcontractor to complete a SWMS for lift install Ladder Use Place ladder in a ratio of no more than 1:4 ratio All ladders to be secured at top at all times					

PROJECT HAZARD REGISTER



							All ladders to be inspected before use					
1	24.2	Electricity	Fatality	A	1	E	1	Site has RCD protection on temporary and permanent power supply	E	2	M	19
			Electric Shock	A	3	E	4	Perkins Hammertech Online WHS Induction				
			Burns					Electrical Subcontractor Principal licence holder				
			Equipment Damage	B	3	H	8	Licensed electricians to do electrical work Perkins Builder Isolation safety practice – Danger tags/Out Service Tag Isolation permit (Principal Permit System requirements) RCD tested regularly Power tools to be tested and tagged. Electrical register on site				
1	24.3	Powered Tools	Fatality	C	1	E	3	Site has RCD protection on temporary and permanent power supply	D	5	L	23
			Fire	B	2	E	5	All Perkins Builders power tools to have guards in place before use. RCD tested regularly				
			Electrocution	C	2	H	9	Power tools to be tested and tagged. Electrical register on site				
			Minor personal injury					Power tools to be used by competent operators				
			Eye injuries	C	3	H	13	Appropriate PPE to be worn for relevant tasks				
1	24.4	Oxy Acetylene Welding	Fire	C	1	E	6	Flash back arrestors in place	D	4	L	21
			Burns					All gas cylinder to be chained in position				
			Eye injuries					Perkins Hammertech Online WHS Induction				
			Equipment Damage	C	3	H	13	Site to have fire extinguisher Hot work permit (Principal Permit System requirements) Emergency Site plan Appropriate PPE to be worn for relevant tasks				
1	24.5	Manual handling	Permanent disability	B	2	E	5	Crane to lift materials close to work area where practicable	C	5	L	20
			Musculoskeletal strain / sprain					Minimise steel cuts – order steel to correct lengths				
			Crush injuries					Perkins Hammertech Online WHS Induction				
			Lacerations	B	3	H	8	Appropriate PPE to be worn for relevant tasks				
			Fractures									
			Dislocations									
1	24.6	Slips trips	Musculoskeletal strain / sprain	A	2	E	5	Subcontractor housekeeping				

PROJECT HAZARD REGISTER



1		Fractures	B	3	H	8	Perkins Hammertech Online WHS Induction Site manager to conduct daily checks on housekeeping	D	4	L	21	
		Lacerations										
		Dislocations	B	4	H	12						
		Bruises										
1	24.7	Cuts and abrasions	Minor Personal Injury	A	4	H	7	Site Manager project plan – barricading Housekeeping Perkins Hammertech Online WHS Induction Appropriate PPE to be worn for relevant tasks	D	4	L	21
1	24.8	Crane	Fatality	B	1	E	3	Correct crane for the right lift Dedicated lay down area Crane regulatory compliance update Perkins Hammertech Online WHS Induction Site Manager to inspect crane radius area – limestone track to crane placement. Licence crane driver Licensed dogman Barricade lift area Appropriate PPE to be worn for relevant tasks	E	5	L	25
			Major personnel injury									
			Crush injuries	C	2	H	9					
			Amputations									
			Minor personnel injury									
			Equipment damage	C	3	H	13					
1	24.9	Lift plant /third parties,	Fatality	C	1	E	6	Barrier (lift gate) to isolation lift well Immobilise machinery at the end of the day Site Manager Project plan – segregate work groups. Perkins Hammertech Online WHS Induction Signage – Caution “Lift Well” All plant operators to be competent in operating machinery Subcontractor to complete maintenance and servicing as per the manufacturers requirements	E	5	L	25
			Major personnel injury									
			Crush injuries	C	2	H	9					
			Amputations									
			Equipment damage									
			Minor personnel injury	C	3	H	13					
25 ALUMINIUM WINDOWS & DOORS												
1	25.1	Manual handling	Permanent disability	B	2	E	5	Crane to lift glass/aluminium frames if multi storey and close to work area where practicable. Glazier's equipment to be maintained by Subcontractor. Perkins Hammertech Online WHS Induction Appropriate PPE to be worn for relevant tasks	C	5	L	20
			Musculoskeletal strain / sprain									
			Crush injuries									
			Lacerations	B	3	H	8					
			Fractures									
			Dislocations									
		Bruises	B	4	H	12						

PROJECT HAZARD REGISTER



1	25.2	Slips trips	Musculoskeletal strain / sprain	B	2	E	5	Site Manager project plan – barricading All power leads to raised off the floor. Subcontractor to pre plan delivery route Perkins Hammertech Online WHS Induction Housekeeping	D	4	L	21
			Fractures	B	3	H	8					
			Lacerations	B	4	H	12					
			Dislocations	B	4	H	12					
1	25.3	Cuts and abrasions Glazing	Bruises					Housekeeping Perkins Hammertech Online WHS Induction Site Manager to ensure Subcontractors use correct equipment Appropriate PPE to be worn for relevant tasks	D	4	L	21
			Minor Personal Injury	A	4	H	7					
1	25.4	Powered Tools	Fatality	B	1	E	3	Site has RCD protection on temporary and permanent power supply All Perkins Builders power tools to have guards in place before use. RCD tested regularly Power tools to be tested and tagged. Electrical register on site Perkins Hammertech Online WHS Induction Power tools to be used by competent operators Appropriate PPE to be worn for relevant tasks	D	5	L	23
			Fire	B	2	E	5					
			Electrocution									
			Minor personal injury	C	2	H	9					
			Burns									
			Eye injuries	C	3	H	13					
	25.5	Working at height Glazers	Equipment Damage	C	3	H	13	General Perkins Hammertech Online WHS Induction Site Manager project plan Subcontractor to upload JHA/SWMS to Perkins Hammertech project portal for review and acceptance by Site Manager prior to commencing works. Erect exclusion zone to prevent dropped objects injury/damage Scaffold Scaffold erection by licensed scaffolder – Scaf tag Site manager visual check daily Monthly scaffold check by licensed scaffolder Site manager housekeeping hazard inspection Boom Lift Boom lift to be immobilised at the end of days work Licensed boom lift operator 11m and above				
			Fatality	A	1	E	1					
			Falling causing personal injury									
			Musculoskeletal strain / sprain / fractures	B	2	E	5					
			Loss of consciousness									
			Plant & equipment damage									

1		C	3	H	Boom lift operator inspection before use Operator to inspect for services/overhead power lines/ground before driving boom on site If working near overhead power lines, overhead power lines isolated with tiger tails complete before starting task Subcontractor to complete maintenance and servicing as per the manufacturers requirements Fall arrest PPE equipment to be worn by operator Scissor Lift Scissor lift to be immobilised at the end of days work Only licenced or ticketed workers are to operate scissor lifts Scissor lift operator inspection before use Operator to inspect for services/overhead power lines/ground before driving boom on site Subcontractor to complete maintenance and servicing as per the manufacturers requirements If working near overhead power lines, overhead power lines isolated with tiger tails complete before starting task Edge Protection on Roofs Edge protection erection by licensed scaffolder – Scaf tag Site manager visual check daily Monthly edge protection check by licensed scaffolder Subcontractor to complete a SWMS for access to roof Fall arrest system Roofers/plumbers/mechanical to wear fall arrest to access roof Lift Wells Lift shaft protection barrier with lift opening gates, signage, and night latch. Site manager visual check daily Subcontractor to upload JHA/SWMS to Perkins Hammertech project portal for review and acceptance by Site Manager prior to commencing works. Ladder Use	E	2	M	19
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1				If working near overhead power lines, overhead power lines isolated with tiger tails complete before starting task Subcontractor to complete maintenance and servicing as per the manufacturers requirements Fall arrest PPE equipment to be worn by operator Scissor Lift Scissor lift to be immobilised at the end of days work Only licenced or ticketed workers are to operate scissor lifts Scissor lift operator inspection before use Operator to inspect for services/overhead power lines/ground before driving boom on site	E	2	M	19
	C	3	H	13 Subcontractor to complete maintenance and servicing as per the manufacturers requirements If working near overhead power lines, overhead power lines isolated with tiger tails complete before starting task Edge Protection on Roofs Edge protection erection by licensed scaffolder – Scaf tag Site manager visual check daily Monthly edge protection check by licensed scaffolder Subcontractor to upload SWMS to Perkins Hammertech project portal for review and acceptance by Site Manager prior to commencing works. Fall arrest system Roofers/plumbers/mechanical to wear fall arrest to access roof Lift Wells Lift shaft protection barrier with lift opening gates, signage, and night latch. Site manager visual check daily Subcontractor to upload SWMS to Perkins Hammertech project portal for review and acceptance by Site Manager prior to commencing works. Ladder Use Avoid working off a ladder - use a platform ladder where practicable Place ladders in a ratio of no more than 1:4 ration				

PROJECT HAZARD REGISTER



							All ladders to be secured at top at all times and stabilised at the bottom All ladders to be inspected before use Practice the maintaining of three points of contact when using a ladder Employ the use of all fall arrest where practicable Suspended slabs Edge protection Site manager visual check daily				
1	26.2	Oxy Acetylene	Fire	C	1	E	6	Flash back arrestors in place			
			Burns					Site to have fire extinguisher			
			Eye injuries					All gas cylinder to be chained in position			
			Equipment Damage	C	3	H	13	Perkins Hammertech Online WHS Induction Hot work permit (Principal Permit System requirements) Emergency Site plan Appropriate PPE to be worn for relevant tasks	D	4	L 21
1	26.3	Crane	Fatality	B	1	E	3	Correct crane for the right lift			
			Major personnel injury					Dedicated lay down area			
			Crush injuries					Crane regulatory compliance update			
			Amputations	C	2	H	9	Perkins Hammertech Online WHS Induction			
			Minor personnel injury					Site Manager to inspect crane radius area – limestone track to crane placement.	E	5	L 25
			Equipment damage	C	3	H	13	Licence crane driver Licensed dogman Barricade lift area Appropriate PPE to be worn for relevant tasks			
1	26.4	Powered Tools	Fatality	B	1	E	3	Site has RCD protection on temporary and permanent power supply			
			Fire	B	2	E	5	All Perkins Builders power tools to have guards in place before use.			
			Electrocution					RCD tested regularly			
			Minor personal injury	C	2	H	9	Power tools to be tested and tagged. Electrical register on site	D	5	L 23
			Burns					Perkins Hammertech Online WHS Induction			
			Eye injuries					Power tools to be used by competent operators			
			Equipment Damage	C	3	H	13	Appropriate PPE to be worn for relevant tasks			
	26.5	Mobile machinery - pedestrians/third parties,	Fatality	A	1	E	1	Site Manager Project plan – segregate work groups and decide site traffic flow.			
			Personnel injury					Site Isolation fence to 1.8meters			

PROJECT HAZARD REGISTER



1		Electric shock	B	2	E	5	Immobilise machinery at the end of the day	E	5	L	25
		Injury to third party					Mobile plant to have reversing beeper and flashing lights.				
		Foreign Body in eyes					Perkins Hammertech Online WHS Induction Subcontractor to upload JHA/SWMS to Perkins Hammertech project portal for review and acceptance by Site Manager prior to commencing works. Signage – Caution “Mobile machinery in operation”, Mandatory sign “High visibility vest”, Site manager to contact dial before you dig and location services Subcontractor				
			C	3	H	13	All mobile machinery operators to be competent in operating machinery Allocated site parking for non essential vehicles Subcontractor to complete maintenance and servicing as per the manufacturers requirements All site personnel to wear High visibility vests and safety glasses and safety glasses				
1	26.6	Manual handling					Crane to lift steel/aluminium frames if multi storey and close to work area where practicable Minimise steel cuts – order steel to correct lengths	C	5	L	20
			B	2	E	5					
							Perkins Hammertech Online WHS Induction				
			B	3	H	8	Appropriate PPE to be worn for relevant tasks				
			B	4	H	12					
1	26.7	Slips trips	B	2	E	5	Site Manager project plan – barricading	D	4	L	21
							All power leads to raised off the floor				
			B	3	H	8	All steel to be placed in a set down area or as close to the job as possible				
							Perkins Hammertech Online WHS Induction				
			B	4	H	12	Housekeeping				
1	26.8	Cuts and abrasions					Housekeeping	D	4	L	21
			A	4	H	7	Perkins Hammertech Online WHS Induction Appropriate PPE to be worn for relevant tasks				
	26.9	Cutting and grinding	C	1	E	6	Use of equipment to manufactures specification				
							Correct selection of disc for the task				

PROJECT HAZARD REGISTER



1			Minor personal injury	C	2	H	9	Perkins Hammertech Online WHS Induction Appropriate PPE to be worn for relevant tasks	D	4	L	21
			Burns									
			Eye injuries	C	3	H	13					
			Equipment Damage									
27 ROOFING												
1	27.1	Working at height	Fatality	A	1	E	1	General Perkins Hammertech Online WHS Induction Site Manager project plan Subcontractor to upload SWMS to Perkins Hammertech project portal for review and acceptance by Site Manager prior to commencing works. Erect exclusion zone to prevent dropped objects injury/damage Roofing Fall Prevention Installing of wire netting to roof area prior to fixing steel sheets Scaffold Scaffold erection by licensed scaffolder – Scaf tag Site manager visual check daily Monthly scaffold check by licensed scaffolder Site manager housekeeping hazard inspection Boom Lift Boom lift to be immobilised at the end of days work Licensed boom lift operator 11m and above Boom lift operator inspection before use Operator to inspect for services/overhead power lines/ground before driving boom on site If working near overhead power lines, overhead power lines isolated with tiger tails complete before starting task Subcontractor to complete maintenance and servicing as per the manufacturers requirements Fall arrest PPE equipment to be worn by operator Scissor Lift Scissor lift to be immobilised at the end of days work				
		Roofers	Falling causing personal injury	B	2	E	5					
			Musculoskeletal strain / sprain / fractures									
			Loss of consciousness									
			Plant & equipment damage dropped objects									
								E	2	M	19	

PROJECT HAZARD REGISTER



1	27.2 Crane		C	3	H	13	Only licenced or ticketed workers are to operate scissor lifts Scissor lift operator inspection before use Operator to inspect for services/overhead power lines/ground before driving boom on site Subcontractor to complete maintenance and servicing as per the manufacturers requirements If working near overhead power lines, overhead power lines isolated with tiger tails complete before starting task Edge Protection on Roofs Edge protection erection by licensed scaffolder – Scaf tag Site manager visual check daily Monthly edge protection check by licensed scaffolder Subcontractor to complete a SWMS for access to roof Fall arrest system Roofers/plumbers/mechanical to wear fall arrest to access roof Ladder Use Avoid working off a ladder - use a platform ladder where practicable Place ladders in a ratio of no more than 1:4 ration All ladders to be secured at top at all times and stabilised at the bottom All ladders to be inspected before use Practice the maintaining of three points of contact when using a ladder Employ the use of all fall arrest where practicable Suspended slabs Edge protection Site manager visual check daily			
		Fatality	B	1	E	3	Correct crane for the right lift			
		Major personnel injury					Dedicated lay down area			
		Crush injuries					Crane regulatory compliance update			
		Amputations	C	2	H	9	Perkins Hammertech Online WHS Induction			
		Minor personnel injury					Site Manager to inspect crane radius area – limestone track to crane placement.	E	5	L 25
		Equipment damage	C	3	H	13	Licence crane driver Licensed dogman Barricade lift area			

PROJECT HAZARD REGISTER



							Appropriate PPE to be worn for relevant tasks					
1	27.3	Powered Tools	Fatality	B	1	E	3	Site has RCD protection on temporary and permanent power supply	D	5	L	23
			Fire	B	2	E	5	All Perkins Builders power tools to have guards in place before use.				
			Electrocution					RCD tested regularly				
			Minor personal injury	C	2	H	9	Power tools to be tested and tagged. Electrical register on site				
			Burns					Perkins Hammertech Online WHS Induction				
			Eye injuries					Power tools to be used by competent operators				
			Equipment Damage	C	3	H	13	Appropriate PPE to be worn for relevant tasks				
1	27.4	Mobile machinery - pedestrians/third parties,	Fatality	A	1	E	1	Site Manager Project plan – segregate work groups and decide site traffic flow.	E	5	L	25
			Personnel injury					Site Isolation fence to 1.8meters				
			Electric shock	B	2	E	5	Immobilise machinery at the end of the day				
			Injury to third party					Mobile plant to have reversing beeper and flashing lights.				
			Foreign Body in eyes					Dust control with water cart, soil stabilisers Perkins Hammertech Online WHS Induction Appropriate PPE to be worn for relevant tasks Subcontractor to upload SWMS to Perkins Hammertech project portal for review and acceptance by Site Manager prior to commencing works. Signage – Caution “Mobile machinery in operation”, Mandatory sign “High visibility vest”, Site manager to contact dial before you dig and location services Subcontractor All mobile machinery operators to be competent in operating machinery Allocated site parking for non essential vehicles Subcontractor to complete maintenance and servicing as per the manufacturers requirements All site personnel to wear High visibility vests and safety glasses and safety glasses				
	27.5	Manual handling	Permanent disability	B	2	E	5	Crane to lift roofing materials close to work area where practicable				
			Musculoskeletal strain / sprain					Minimise steel cuts – order steel to correct lengths				

PROJECT HAZARD REGISTER



1		Crush injuries				Perkins Hammertech Online WHS Induction	C	5	L	20
		Lacerations	B	3	H	8				
		Fractures								
		Dislocations								
		Bruises	B	4	H	12				
1	27.6	Slips trips	Musculoskeletal strain / sprain	B	2	E	5	Subcontractor housekeeping		
			Fractures	B	3	H	8	All steel to be placed in set down area		
			Lacerations					Perkins Hammertech Online WHS Induction	D	4
			Dislocations					Site manager to conduct daily checks on housekeeping		L
			Bruises	B	4	H	12			21
1	27.7	Falling objects	Fatality					Ensure any materials or tools stored on roof are appropriately secured to prevent wind catching		
			Major Personnel injury	C	1	E	6	Any materials stored on roof with incline and no edge protection must be securely fastened	D	3
									M	18
1	27.8	Cuts and abrasions	Minor personnel injury					Site Manager project plan – barricading		
				A	4	H	7	Housekeeping		
								Perkins Hammertech Online WHS Induction	D	4
								Appropriate PPE to be worn for relevant tasks		L
										21
1	27.9	Cutting and grinding	Fatality	C	1	E	6	Use of equipment to manufactures specification		
			Major Personnel injury					Correct selection of disc for the task		
			Fire	B	4	H	12	Perkins Hammertech Online WHS Induction		
			Electric Shock					Appropriate PPE to be worn for relevant tasks	D	4
			Lacerations, Burns							L
			Minor personnel injury							
			Eye injuries							
			Equipment Damage	C	3	H	13			21
28 CARPENTRY, JOINERY & CABINETS, HARDWARE										
1	28.1	Working at height	Fatality					General		
		Roof carpenters	Falling causing personal injury	A	1	E	1	Perkins Hammertech Online WHS Induction		
		Fixing Carpenters	Musculoskeletal strain / sprain / fractures	B	2	E	5	Site Manager project plan		
		Form Work Carpenters	Loss of consciousness					Subcontractor to upload JHA/SWMS to Perkins Hammertech project portal for review and acceptance by Site Manager prior to commencing works.		
		Wall Framing Carpenters	Plant & equipment damage					Erect exclusion zone to prevent dropped objects injury/damage		

1	dropped objects		C	3	H	13	Scaffold Scaffold erection by licensed scaffolder – Scaf tag Site manager visual check daily Monthly scaffold check by licensed scaffolder Site manager housekeeping hazard inspection Boom Lift Boom lift to be immobilised at the end of days work Licensed boom lift operator 11m and above Boom lift operator inspection before use Operator to inspect for services/overhead power lines/ground before driving boom on site If working near overhead power lines, overhead power lines isolated with tiger tails complete before starting task Subcontractor to complete maintenance and servicing as per the manufacturers requirements Fall arrest PPE equipment to be worn by operator Scissor Lift Scissor lift to be immobilised at the end of days work Only licenced or ticketed workers are to operate scissor lifts Scissor lift operator inspection before use Operator to inspect for services/overhead power lines/ground before driving boom on site Subcontractor to complete maintenance and servicing as per the manufacturers requirements If working near overhead power lines, overhead power lines isolated with tiger tails complete before starting task Edge Protection on Roofs Edge protection erection by licensed scaffolder – Scaf tag Site manager visual check daily Monthly edge protection check by licensed scaffolder	E	2	M	19

PROJECT HAZARD REGISTER



							Subcontractor to upload JHA/SWMS to Perkins Hammertech project portal for review and acceptance by Site Manager prior to commencing works. Fall arrest system Roofers/plumbers/mechanical to wear fall arrest to access roof Ladder Use Avoid working off a ladder - use a platform ladder where practicable Place ladders in a ratio of no more than 1:4 ration All ladders to be secured at top at all times and stabilised at the bottom All ladders to be inspected before use Practice the maintaining of three points of contact when using a ladder Employ the use of all fall arrest where practicable Suspended slabs Edge protection Site manager visual check daily					
1	28.2	Crane	Fatality Major personnel injury Crush injuries Amputations Minor personnel injury Equipment damage	B C C	1 2 3	E H H	3 9 13	Correct crane for the right lift Dedicated lay down area Crane regulatory compliance update Perkins Hammertech Online WHS Induction Site Manager to inspect crane radius area – limestone track to crane placement. Licence crane driver Licensed dogman Barricade lift area Appropriate PPE to be worn for relevant tasks	E	5	L	25
1	28.3	Mobile machinery - pedestrians/third parties,	Fatality Personnel injury Electric shock Injury to third party Foreign Body in eyes	A B	1 2	E E	1 5	Site Manager Project plan – segregate work groups and decide site traffic flow. Site Isolation fence to 1.8meters Immobilise machinery at the end of the day Mobile plant to have reversing beeper and flashing lights. Perkins Hammertech Online WHS Induction Subcontractor to provide Site Manager with a JHA/SWMS if there is movement of powered mobile plant Signage – Caution “Mobile machinery in operation”, Mandatory sign “High visibility vest”,	E	5	L	25

PROJECT HAZARD REGISTER

				C	3	H	13	Site manager to contact dial before you dig and location services Subcontractor All mobile machinery operators to be competent in operating machinery Allocated site parking for non essential vehicles Subcontractor to complete maintenance and servicing as per the manufacturers requirements All site personnel to wear High visibility vests and safety glasses and safety glasses					
1	28.4	Powered Tools	Fatality	B	1	E	3	Site Manager to ensure work groups are separated and appropriate signage is in place.	D	5	L	23	
			Explosive power tools	Fire	B	2	E	5					Power tools to have guards in place before use.
			Air Tools	Electrocution									Site has RCD protection on temporary and permanent power supply
			Minor personal injury	C	2	H	9	Perkins Hammertech Online WHS Induction RCD tested regularly					
			Burns					Power tools to be tested and tagged. Electrical register on site					
			Eye injuries					Power tools to be used by competent operators					
			Equipment Damage	C	3	H	13	Appropriate PPE to be worn for relevant tasks Signage – ‘Explosive Power Tools in Use’ Signage – ‘Nail Gun in Use’ Explosive power tools to be used by competent operator and to operator to wear appropriate PPE					
1	28.5	Manual handling	Permanent disability	B	2	E	5	Crane to lift materials close to work area where practicable	C	5	L	20	
			Musculoskeletal strain / sprain					Trolleys and lifting devises to assist with indoor work					
			Crush injuries					Perkins Hammertech Online WHS Induction					
			Lacerations	B	3	H	8	Appropriate PPE to be worn for relevant tasks					
			Fractures										
			Dislocations										
Bruises	B	4	H	12									
1	28.6	Slips trips	Musculoskeletal strain / sprain	B	2	E	5	Subcontractor housekeeping	D	4	L	21	
			Fractures					Perkins Hammertech Online WHS Induction					
			Lacerations	B	3	H	8	Site manager to conduct daily checks on housekeeping					
			Dislocations										
			Bruises	B	4	H	12						

PROJECT HAZARD REGISTER



1	28.7	Cuts and abrasions	Minor personnel injury	A	4	H	7	Housekeeping Perkins Hammertech Online WHS Induction Appropriate PPE to be worn for relevant tasks	D	4	L	21				
1	29 PLASTERING															
	29.1	Powered Tools	Fatality	B	1	E	3	Site has RCD protection on temporary and permanent power supply	D	5	L	23				
			Fire	B	2	E	5	All Perkins Builders power tools to have guards in place before use.								
			Electrocution	C	2	H	9	RCD tested regularly								
			Minor personal injury					Power tools to be tested and tagged.								
			Burns					Electrical register on site								
			Eye injuries					Perkins Hammertech Online WHS Induction								
Equipment Damage	C	3	H	13	Power tools to be used by competent operators Appropriate PPE to be worn for relevant tasks											
1	29.2	Manual handling	Permanent disability	B	2	E	5	Use mechanical devises as first choice when lifting product	C	5	L	20				
			Musculoskeletal strain / sprain					Use two people to lift heavy awkward product if no mechanical devise available								
			Crush injuries					Perkins Hammertech Online WHS Induction								
			Lacerations					B					3	H	8	Appropriate PPE to be worn for relevant tasks
			Fractures													
			Dislocations													
			Bruises													B
1	29.3	Slips trips	Musculoskeletal strain / sprain	B	2	E	5	Subcontractor housekeeping	D	4	L	21				
			Fractures	B	3	H	8	Perkins Hammertech Online WHS Induction								
			Lacerations	B	4	H	12	Site manager to conduct daily checks on housekeeping								
			Dislocations													
			Bruises													
1	29.4	Cuts and abrasions	Minor personnel injury	A	4	H	7	Housekeeping Perkins Hammertech Online WHS Induction Appropriate PPE to be worn for relevant tasks	D	4	L	21				
	29.5	Working at height	Fatality	A	1	E	1	General								
			Plasters					Falling causing personal injury					Perkins Hammertech Online WHS Induction			
			Musculoskeletal strain / sprain / fractures					B					2	E	5	Site Manager project plan

PROJECT HAZARD REGISTER



1	Loss of consciousness								
	Plant & equipment damage dropped objects								

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PROJECT HAZARD REGISTER



		Eye injuries				Power tools to be used by competent operators			
		Equipment Damage	C	3	H	13	Appropriate PPE to be worn for relevant tasks		
1	30.2	Manual handling					Use mechanical devices as first choice when lifting product		
		Permanent disability	B	2	E	5	Sheet lifter		
		Musculoskeletal strain / sprain					Use two people to lift heavy awkward product if no mechanical device available	C	5
		Crush injuries					Perkins Hammertech Online WHS Induction	L	20
		Lacerations	B	3	H	8	Appropriate PPE to be worn for relevant tasks		
		Fractures							
		Dislocations							
		Bruises	B	4	H	12			
1	30.3	Slips trips					Subcontractor housekeeping		
		Musculoskeletal strain / sprain	B	2	E	5	Perkins Hammertech Online WHS Induction	D	4
		Fractures					Site manager to conduct daily checks on housekeeping	L	21
		Lacerations	B	3	H	8			
		Dislocations							
		Bruises	B	4	H	12			
1	30.4	Cuts and abrasions					Housekeeping		
		Minor personnel injury	A	4	H	7	Perkins Hammertech Online WHS Induction	D	4
							Appropriate PPE to be worn for relevant tasks	L	21
	30.5	Working at height					General		
		Fatality	A	1	E	1	Perkins Hammertech Online WHS Induction		
		Ceiling fixers					Site Manager project plan		
		Falling causing personal injury	B	2	E	5	Subcontractor to upload JHA/SWMS to Perkins Hammertech project portal for review and acceptance by Site Manager prior to commencing works.		
		Plaster board fixer					Erect exclusion zone to prevent dropped objects injury/damage		
		Musculoskeletal strain / sprain / fractures					Scaffold		
		Loss of consciousness					Scaffold erection by licensed scaffolder – Scaf tag		
		Plant & equipment damage					Site manager visual check daily		
		dropped objects					Monthly scaffold check by licensed scaffolder		
							Site manager housekeeping hazard inspection		
							Boom Lift		

1

PROJECT HAZARD REGISTER



							Subcontractor to upload JHA/SWMS to Perkins Hammertech project portal for review and acceptance by Site Manager prior to commencing works. Ladder Use Avoid working off a ladder - use a platform ladder where practicable Place ladders in a ratio of no more than 1:4 ration All ladders to be secured at top at all times and stabilised at the bottom All ladders to be inspected before use Practice the maintaining of three points of contact when using a ladder Employ the use of all fall arrest where practicable Suspended slabs Edge protection Site manager visual check daily				
1	30.6 Chemicals	Burns to skin	D	3	M	18	Perkins Hammertech Online WHS Induction	D	4	L	21
	Plaster	Irritating and drying to the skin	C	4	M	17	Subcontractors to supply SDS for all chemicals used on sites Subcontractor to wear PPE for specific tasks.				
	Glues										
	31 TOILET PARTITIONS										
1	31.1 Powered Tools	Fatality	B	1	E	3	Site has RCD protection on temporary and permanent power supply				
		Fire	B	2	E	5	All Perkins Builders power tools to have guards in place before use. RCD tested regularly				
		Electrocution					Power tools to be tested and tagged. Electrical register on site	D	5	L	20
		Minor personal injury	C	2	H	9	Perkins Hammertech Online WHS Induction				
		Burns					Power tools to be used by competent operators				
		Eye injuries	C	3	H	13	Appropriate PPE to be worn for relevant tasks				
		Equipment Damage									
1	31.2 Manual handling	Permanent disability					Use mechanical devices as first choice when lifting product				
		Musculoskeletal strain / sprain	B	2	E	5	Use two people to lift heavy awkward product if no mechanical device available				
		Crush injuries					Perkins Hammertech Online WHS Induction	C	5	L	21
		Lacerations	B	3	H	8	Appropriate PPE to be worn for relevant tasks				
		Fractures									
		Dislocations									
		Bruises	B	4	H	12					
	31.3 Slips trips	Musculoskeletal strain / sprain	B	2	E	5	Subcontractor housekeeping				

PROJECT HAZARD REGISTER



1		Fractures	B	3	H	8	Perkins Hammertech Online WHS Induction Site manager to conduct daily checks on housekeeping	D	4	L	21
		Lacerations									
		Dislocations	B	4	H	12					
		Bruises									
1	31.4	Cuts and abrasions					Housekeeping				
		Minor personnel injury	A	4	H	7	Perkins Hammertech Online WHS Induction Appropriate PPE to be worn for relevant tasks	D	4	L	21
1	31.5	Chemicals					Perkins Hammertech Online WHS Induction	D	4	L	21
		Burns to skin	D	3	M	18	Subcontractors to supply SDS for all chemicals used on sites				
		Irritating and drying to the skin	C	4	M	17	Subcontractor to wear PPE for specific tasks.				
32 CERAMIC TILING											
1	32.1	Powered Tools					Site has RCD protection on temporary and permanent power supply	D	5	L	23
		Fatality	B	1	E	3					
		Fire	B	2	E	5	All Perkins Builders power tools to have guards in place before use.				
		Electrocution					RCD tested regularly				
		Minor personal injury	C	2	H	9	Power tools to be tested and tagged.				
		Burns					Electrical register on site				
		Eye injuries					Perkins Hammertech Online WHS Induction				
		Equipment Damage	C	3	H	13	Power tools to be used by competent operators				
							Appropriate PPE to be worn for relevant tasks				
1	32.2	Manual handling					Use mechanical devices as first choice when lifting product	C	5	L	20
		Permanent disability									
		Musculoskeletal strain / sprain	B	2	E	5	Use two people to lift heavy awkward product if no mechanical device available				
		Crush injuries					Perkins Hammertech Online WHS Induction				
		Lacerations	B	3	H	8	Appropriate PPE to be worn for relevant tasks				
		Fractures									
		Dislocations									
		Bruises	B	4	H	12					
1	32.3	Slips trips					Subcontractor housekeeping	D	4	L	21
		Musculoskeletal strain / sprain	B	2	E	5					
		Fractures					Perkins Hammertech Online WHS Induction				
		Lacerations	B	3	H	8	Site manager to conduct daily checks on housekeeping				
		Dislocations									
		Bruises	B	4	H	12					

PROJECT HAZARD REGISTER



1	32.4	Cuts and abrasions	Minor personnel injury	A	4	H	7	Housekeeping Perkins Hammertech Online WHS Induction Appropriate PPE to be worn for relevant tasks	D	4	L	21
1	32.5	Chemicals	Burns to skin	D	3	M	18	Perkins Hammertech Online WHS Induction	D	4	L	21
		Bonding agents	Irritating and drying to the skin	C	4	M	17	Subcontractors to supply SDS for all chemicals used on sites				
		Glues	Irritating and corrosive to eyes and throat	C	4	M	17	Subcontractor to wear PPE for specific tasks.				
		Cement										
33 Power Tools												
1	33.1	Powered Tools	Fatality	B	1	E	3	Site has RCD protection on temporary and permanent power supply				
			Fire	B	2	E	5	All Perkins Builders power tools to have guards in place before use.				
			Electrocution					RCD tested regularly				
			Minor personal injury	C	2	H	9	Power tools to be tested and tagged. Electrical register on site	D	5	L	23
			Burns					Perkins Hammertech Online WHS Induction				
			Eye injuries	C	3	H	13	Power tools to be used by competent operators				
			Equipment Damage					Appropriate PPE to be worn for relevant tasks				
1	33.2	Manual handling	Permanent disability					Use mechanical devices as first choice when lifting product				
			Musculoskeletal strain / sprain	B	2	E	5	Use two people to lift heavy awkward product if no mechanical device available				
			Crush injuries					Perkins Hammertech Online WHS Induction	C	5	L	21
			Lacerations	B	3	H	8	Appropriate PPE to be worn for relevant tasks				
			Fractures									
			Dislocations									
			Bruises	B	4	H	12					
1	33.3	Slips trips	Musculoskeletal strain / sprain	B	2	E	5	Subcontractor housekeeping				
			Fractures					Perkins Hammertech Online WHS Induction				
			Lacerations	B	3	H	8	Site manager to conduct daily checks on housekeeping	D	4	L	21
			Dislocations									
			Bruises	B	4	H	12					
1	33.4	Cuts and abrasions	Minor personnel injury	A	4	H	7	Housekeeping Perkins Hammertech Online WHS Induction Appropriate PPE to be worn for relevant tasks	D	4	L	21

PROJECT HAZARD REGISTER



1	33.5	Chemicals	Burns to skin	D	3	M	18	Perkins Hammertech Online WHS Induction	D	4	L	21	
		Bonding agents	Irritating and drying to the skin	C	4	M	17	Subcontractors to supply SDS for all chemicals used on sites					
		Glues	Irritating and corrosive to eyes and throat					Subcontractor to wear PPE for specific tasks.					
34 PAINTING													
1	34.1	Powered Tools	Fatality	B	1	E	3	Site has RCD protection on temporary and permanent power supply	D	5	L	23	
			Fire	B	2	E	5	All Perkins Builders power tools to have guards in place before use.					
			Electrocution	C	2	H	9	RCD tested regularly					
			Minor personal injury					Power tools to be tested and tagged.					
			Burns					Electrical register on site					
			Eye injuries					Perkins Hammertech Online WHS Induction					
	Equipment Damage	C	3	H	13	Power tools to be used by competent operators							
							Appropriate PPE to be worn for relevant tasks						
1	34.2	Manual handling	Permanent disability	B	2	E	5	Use mechanical devices as first choice when lifting product	C	5	L	20	
			Musculoskeletal strain / sprain					Use two people to lift heavy awkward product if no mechanical devise available					
			Crush injuries					Perkins Hammertech Online WHS Induction					
			Lacerations					Appropriate PPE to be worn for relevant tasks					
			Fractures										
			Dislocations										
	Bruises	B	4	H	12								
1	34.3	Slips trips	Musculoskeletal strain / sprain	B	2	E	5	Subcontractor housekeeping	D	4	L	21	
			Fractures	B	3	H	8	Perkins Hammertech Online WHS Induction					
			Lacerations					Site manager to conduct daily checks on housekeeping					
			Dislocations										
			Bruises					B					4
1	34.4	Cuts and abrasions	Minor personnel injury	A	4	H	7	Housekeeping	D	4	L	21	
								Perkins Hammertech Online WHS Induction					
								Appropriate PPE to be worn for relevant tasks					
	34.5	Working at height	Fatality	A	1	E	1	General					
			Painters					Falling causing personal injury					Perkins Hammertech Online WHS Induction
								Musculoskeletal strain / sprain / fractures					Site Manager project plan

PROJECT HAZARD REGISTER



1	Loss of consciousness	B	2	E	5	Subcontractor to upload JHA/SWMS to Perkins Hammertech project portal for review and acceptance by Site Manager prior to commencing works.			
	Plant & equipment damage dropped objects					Erect exclusion zone to prevent dropped objects injury/damage			
						Scaffold Scaffold erection by licensed scaffolder – Scaf tag Site manager visual check daily Monthly scaffold check by licensed scaffolder Site manager housekeeping hazard inspection Boom Lift Boom lift to be immobilised at the end of days work Licensed boom lift operator 11m and above Boom lift operator inspection before use Operator to inspect for services/overhead power lines/ground before driving boom on site If working near overhead power lines, overhead power lines isolated with tiger tails complete before starting task Subcontractor to complete maintenance and servicing as per the manufacturers requirements Fall arrest PPE equipment to be worn by operator Scissor Lift Scissor lift to be immobilised at the end of days work Only licenced or ticketed workers to operate scissor lifts Scissor lift operator inspection before use Operator to inspect for services/overhead power lines/ground before driving boom on site	E	2	M
		C	3	H	13	Subcontractor to complete maintenance and servicing as per the manufacturers requirements If working near overhead power lines, overhead power lines isolated with tiger tails complete before starting task Edge Protection on Roofs			

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1		Minor personnel injury Equipment damage	C	3	H	13	Site Manager to inspect crane radius area. Licence crane driver Ensure crane is placed in "free slew" mode whenever not in use Ensure access to ladder is restricted. Licensed dogman Barricade lift area where practical Appropriate PPE to be worn for relevant tasks	D	4	L	21
1	35.2 Work at Height	Fatality Major personnel injury	B	1	E	3	Remain within handrails on work deck at all times. Maintenance work to be conducted by qualified personnel and if outside of hand rails, harness must be used. Do not access work platform in high winds. Ensure ladders maintained in good order. Always maintain 3 points of contact Always face forward whilst on ladder.	D	4	L	21
1	35.3 Interface with other trades/general public	Fatality Major personnel injury Property Damage	C	2	H	9	Perkins Hammertech Online WHS Induction Use of qualified dogman to guide and spot the load for crane operator Use of other spotters as required Establish exclusion zones as required Ensure lifting gear is in good order, and inspected regularly by a competent person Ensure suspended loads do not extend out over the site boundary without appropriate exclusion zone, barricading, signage, and use of spotters. Ensure adequate communications system between spotters and crane operator. Toolbox meetings / general communications to ensure lifts are coordinated and others informed of upcoming activities Schedule works to minimise potential exposure	E	5	L	25
36 MOBILE CRANE											
	36.1 Crane	Fatality Major personnel injury Crush injuries Amputations	B	1	E	3	Ensure cranes type and rating is appropriate for project requirements and SWMS is in place. Dedicated lay down area				
			C	2	H	9	Crane regulatory compliance update Perkins Hammertech Online WHS Induction				

PROJECT HAZARD REGISTER



1		Minor personnel injury Equipment damage	C	3	H	13	Site Manager to inspect crane radius area. Licence crane driver Obtain Principal Crane Approval prior to mobilising to site Ensure access to ladder is restricted. Licensed dogman Barricade lift area where practical Appropriate PPE to be worn for relevant tasks	D	4	L	21
1	36.2	Crane Collapse	C	3	H	13	Ensure crane has outriggers set up correctly Area to be checked for services prior to setting up	D	4	L	21
1	36.3	Interface with other trades/general public Fatality Major personnel injury Property Damage	C	2	H	9	Perkins Hammertech Online WHS Induction Use of qualified dogman to guide and spot the load for crane operator Use of other spotters as required Establish exclusion zones as required Ensure lifting gear is in good order, and inspected regularly by a competent person Ensure suspended loads do not extend out over the site boundary without appropriate exclusion zone, barricading, signage, and use of spotters. Ensure adequate communications system between spotters and crane operator. Toolbox meetings / general communications to ensure lifts are coordinated and others informed of upcoming activities Schedule works to minimise potential exposure	E	5	L	25
37 ENVIRONMENTAL											
		Aspect					Control				
	37.1	Discharge to Air	Dust				Impacts from dust of heavy construction machinery				
		<u>Construction machinery operation & Construction Activities</u>					Notify impacted residents of construction activity and provide a contact name for dust complaints. In accordance with Site Dust Assessment, consider control which may include: 1 Spraying with water of unsealed surfaces and stockpiles. 2 Hydro mulch 3 Wood chips				

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1			Impacts associated with extracting fill and construction materials	B	4	H	12	Spoil to be beneficially reused, on or off site, where applicable. Includes reuse of excavated material, either as fill, or as earth mounds for noise control, or beautification, shielding or revegetation mounds on site. Appropriate PPE to be worn for relevant tasks All vehicles carrying materials to be adequately covered (using a tarpaulin) to prevent any loss of material, which may impinge on driver safety.	D	4	L	21
	37.3	Discharge to Land	Waste Management					Apply waste hierarchy Principals – avoid-reduce-re use- recycle.				
		<u>Construction</u>						Waste materials contained in waste bins or other suitable containers, and collected for recycling, reuse or disposal by the Waste Contractor. Personnel inducted into process. Contaminated spoil / materials will be separated, contained and managed and disposed to prevent migration and further contamination. Any waste oil containers or spent fuel drums are to be labelled and stored in a bunded area. Daily inspections of the worksite and waste storage areas will occur to ensure litter / debris is regularly cleaned up and contained on site. All spoil to be monitored and tracked on the site waste disposal register, guidelines, including characterisation of the spoil to determine correct disposal locations and volumes. All vehicles carrying materials to be adequately covered (using a tarpaulin) to prevent any loss of material.				
			Landscaping and Rehabilitation					Landscape treatments will incorporate the surrounding landscape types and vegetation patterns, and thereby reinforce both the overall landscape character and natural vegetation. Embankments, cuttings and sites along watercourses will be stabilised by the use of appropriate landscape treatments, as soon as practicable.				

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				C	4	M	12	Landscaping will be undertaken around construction compounds to screen these areas from surrounding residents. Site compounds and areas surrounding them will be kept tidy and be regularly cleaned and maintained. Clear information will be provided to nearby residences and businesses in relation to the type and duration of site activities.	D	4	L	21
1	37.4 Disturbance to Habitat	Flora and Fauna	Construction activities internal and external to the project site impact on the habitat of flora and fauna	C	3	H	13	Undertake clearing works in accordance with approved management plans and regulatory permits Fauna identification and relocation as required under building permits, state or local government requirements. Site induction to communicate protocols when works impact on fauna Deliniate and protect areas of the project site which may have important fauna and flora values	D	4	L	21
1	37.5 <u>Disturbance and removal</u>	Asbestos	Inhalation of fibers Severe illness - fatality	C	1	E	6	Assessment of site to be conducted to check for asbestos prior to commencement of work. Asbestos identified on the project shall be communicated to all personnel during the WHS Induction. Exclusion zones and signage erected around infected area/s. Disturbance of unidentified asbestos - area vacated immediately and wet down until identification is determined. Identification and removal of asbestos shall be conducted by competent and authorized personnel only. Correct PPE to be worn by competent and authorized personnel. Removal of asbestos to be conducted in accordance with NOHSC 2002 Safe Removal of Asbestos.	D	2	H	14
	37.6 Dewatering	Chemicals	Burns to skin	C	4	M	17	All water product from dewatering to be aerated in shallow pits Pits to be bunted off Monitoring of water pH values				
		Acid Sulphate Contamination	Irritating and drying to the skin									
		Mineral contamination	Irritating and corrosive to eyes and throat									
		Excavation to 1.5m	Fatality	B	1	E	3	Site isolation fence to 1.8 meters				

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1	Dewatering Pits		Personnel Injury				Site manager to ensure dewatering pitas are appropriately barricaded off	C	5	L	20		
			Third Party Injury	B	3	H	8						
			Musculoskeletal strain / sprain				Perkins Hammertech Online WHS Induction						
			Fractures	C	2	H	9						
			Lacerations, bruises, dislocations				Site Manager project plan						
1			FB eyes	C	4	M	17						
							Subcontractor to upload JHA/SWMS to Perkins Hammertech project portal for review and acceptance by Site Manager prior to commencing works.						
							Subcontractor to provide Site Manager with a JHA/SWMS if there is movement of powered mobile plant						
							Appropriate PPE to be worn for relevant tasks						
							Site manager/Subcontractor to review and monitor compliance to JHA/SWMS						
1	37.7	Acid Sulphate Management	Chemicals	Eye/Skin Irritation				Assessment of site to be conducted to check for asbestos prior to commencement of work.	D	2	H	14	
				Damage to surrounding flora and fauna				If confirmed Acid Sulphate Management Plan to be developed and implemented					
				Groundwater contamination	B	2	E	5					Treatment of all Acid Sulphate Soil by mechanical method prior to reuse
				Corrosion to build environments nearby				Lime to be applied to walls and base of excavation within 24 hours					
								Excavations to be backfilled as soon as possible					
	38	PSYCHOSOCIAL HAZARDS											
		38.1	Mental Health	Work Related Stress	Job Demands	C	2	H	9				
	38.1	Mental Health	Work Related Stress	Low Job Control	C	2	H	9	Workers to have input and some control over how work or jobs can be carried out. Enable workers to adapt to the changes to work or provide opportunity to improve situations.				

PROJECT HAZARD REGISTER



1	Poor Support	C	2	H	9	Tasks or jobs where workers have inadequate support including practical assistance and emotional support from managers and colleagues or inadequate training tools and resources for tasks. Information and Training, instruction and supervision and support provided to workers	C	5	L	20
	Lack of Role clarity	D	3	M	18	Ensure workers receive updated information or changes for their roles, responsibilities and expectations				
	Poor Organizations change management	D	3	M	18	Consistent, fair, nondiscriminatory management decisions, application of policies and procedures. Design management process that eliminates or minimizes psychosocial risks.				
	Inadequate reward and recognition	D	2	H	14	Opportunity to recognize workers efforts. Design reward and recognition incentives for workers as required				
	Poor organizational justice	D	5	L	23	Provide fair consistent and no discriminatory management decisions, follow procedures and policies. Provide workers with a good reporting system.				
	Traumatic events and material	D	1	H	10	Reduce any exposure to fear or extreme risks to health and safety of workers. Reduce exposure to natural disasters or seriously injured or deceased persons. Support workers who may have read, heard or seen accounts of traumatic events, abuse or neglect.				
	Remote or isolated work	E	1	H	15	Provide adequate communication, facilities, fatigue management plans and resources for isolated work locations.				
	Poor Physical environment	D	1	H	15	Reduce the risk of exposure to poor, unpleasant or hazardous working environments.				
	Violence and aggression, Bullying, Harassment including sexual harassment	C	1	E	6	Unnecessary aggressive behavior such as yelling or physical intimidation will not be tolerated. Harassment and Sexual Harassment that could be perceived as harmful to others or from work related activities will not be tolerated.				

PROJECT HAZARD REGISTER



			Conflict or poor workplace relationships and interactions	C	3	H	13	Promote good workplace relationships and interpersonal working environments between colleagues, other businesses, clients, customers and contractors. Good consultation and communication should provide workers with information to help them understand and recognize psychosocial hazards in the workplace. Assess, review and manage these hazards with regular consultation and communication with the workforce					
39 CRYSTALLINE SILICA													
1	39.1	Silicosis	Disease	Dust Suppression	A	1	E	1	Powered cutting equipment to be fitted with vacuum dust suppression system to reduce dust in the work environment. PPE to include safety glasses and dust mask to be worn whilst cutting. If equipment does not have a dust extraction system, Water is to be used with all equipment to suppress dust whilst cutting, grinding or sanding.	D	4	L	21
			Exclusion Zones	A	3	E	4	Exclusion zones to be set up accordingly in relation to works being conducted.					
			Housekeeping	C	4	M	17	Ensure dust is cleaned up by vacuum or swept up during and placed into sealed disposable bags after works completed to reduce dust in other work areas. All slurry is to be cleaned up and disposed of in sealed bags.					
			Skin and Eye irritation	A	3	E	4	Appropriate PPE to be worn for relevant tasks					
			Communication and Consultation	B	3	H	8	Toolbox discussions and site awareness, provide information to all workers about risks associated. Training for supervisors					
			Training and Supervision	B	3	H	8	Training and supervision to provide information on the risks associated with silica dust and work activities that may increase exposure					