

Master Risks

Risk ID	Classification	Risk category	Activity	Hazard aspect	Unwanted event	Risk score (U)	Mandatory controls	Project specific controls	Risk score (C)	Legal and other references
1857	Environment	Construction	Construction activities on site, incl. use of mobile plant, clearing and grubbing, earthworks, installation of structures, use of goods and materials	Biosecurity (Fire Ants, weeds, animals)	Spread of Fire Ants causing damage to native flora and fauna. Spread of flora and fauna of biosecurity concern.	E-23	Pre-works site review of Fire Ant Biosecurity Zoning, and site inspection for Fire Ants. Pre-works site inspection for weeds and spraying of identified weeds. Plant pack for all mobile plant to include weed and seed declaration. Regular inspection of site for		H-13	Agricultural Chemicals Distribution Control Act 1996 Biosecurity Act 2014 Environmental Protection Act 1994 Environmental Protection Regulation 2019 MRTS 51 Environmental Management
1856	Environment	Construction	Construction activities on site, incl. use of mobile plant, clearing and grubbing, earthworks, installation of structures, use of goods and materials	Use of fuels, oils, aerosols and other hazardous substances	Land or water contamination when machines blow hydraulic hoses, machinery leaks oil/fuel, Land or water contamination during re-fuelling of plant Incorrect storage of oil/fuel.	E-23	Deployment of spill kits around work areas where plant operates. Designation of exclusion zones for fuelling near sensitive environmental areas. Storage of hazardous substances in designated storage areas. Regular Site inspection and HRWA of hazardous substances.		M-8	Environmental Protection Act 1994 Environmental Protection Regulation 2019 AS 1940 The storage and handling of flammable and combustible liquids AS 3833 The storage and handling of mixed classes of dangerous goods, in packages and intermediate bulk containers MRTS 51 Environmental Management
1855	Environment	Construction	Construction activities on site, incl. use of mobile plant, clearing and grubbing, earthworks, installation of structures, use of goods and materials	Indigenous and non-Indigenous Cultural Heritage	The destruction of Cultural Heritage artifacts, structures or values as part of construction activities. Community/stakeholder complaints. Enforcement action undertaken against business.	E-23	Initial site assessment and review as part of the project EMP to identify any known cultural heritage values within the project area. Pre-works cultural heritage training Cultural heritage awareness within the project induction Delineation and exclusion areas around any cultural heritage areas		M-5	Aboriginal Cultural Heritage Act 2003 Aboriginal Cultural Heritage Act Duty of Care Guidelines Environmental Protection Act 1994 Environmental Protection Regulation 2019 Planning Act 2016 Planning Regulation 2017 Queensland Heritage Act 1992 MRTS 51 Environmental Management
1854	Environment	Construction	Construction activities on site, incl. use of mobile plant, clearing and grubbing, earthworks, installation of structures, use of goods and materials	Waste Generation	Litter from construction works impact upon the habitat conditions of local amenity, local flora and fauna. Waste from the project not being disposed at facilities appropriately. Decomposing plant material stored on site can produce contaminants. Items separated for recycling become contaminated or other are not recycled appropriately. Hazardous wastes generated by the business not being disposed appropriately. Community/stakeholder complaints.	VH-20	Initial site assessment and review as part of the project EMP to identify waste streams. Establishment of recycling, hazardous wastes and general waste disposal options at the project. Use of licenced waste disposal businesses to ensure wastes are disposed appropriately. Servicing schedule developed to ensure waste is removed regularly Waste register to be maintained for the project.		M-5	Environmental Protection Act 1994 Environmental Protection Regulation 2019 Waste Reduction and Recycling Act 2011 MRTS 51 Environmental Management

1853 Environment	Construction	Construction activities on site, incl. use of mobile plant, clearing and grubbing, earthworks, installation of structures, use of goods and materials	Community Resources	Community resources are affected by the removal of trees, use of community assets, use of local infrastructure and possible damage to other utility services. The visual impact that results from the loss of a natural environment and the potential for the loss of flora and fauna habitats and Indigenous	VH-17	Installation and maintenance of landscaping as soon as possible to the project. Establishment of hard landscaping features such as footpaths and bikeways as soon as possible. Protection of existing community resources from construction work.	M-4	Environmental Protection Act 1994 Environmental Protection Regulation 2019 MRTS 51 Environmental Management
1852 Environment	Construction	Construction activities on site, incl. use of mobile plant, clearing and grubbing, earthworks, installation of structures, use of goods and	Use of natural resources	Natural resources are affected by the removal of trees and vegetation and site generated waste.	VH-17	Reuse of recyclable and reusable materials where possible. Minimise work areas to prevent additional use of materials. Use of alternative fuels, carbon offsets for	M-4	Environmental Protection Act 1994 Environmental Protection Regulation 2019 MRTS 51 Environmental Management
1851 Environment	Construction	Construction activities on site, incl. use of mobile plant, clearing and grubbing, earthworks, installation of structures, use of goods and materials.	Noise and vibration	The generation of excessive noise during the construction with the operation of mobile and stationary plant, hand tools, radios and worker voices. Ground vibrations generated during construction due to the use of mobile and stationary plant. Noise and vibration generation have the potential to cause damage to property, damage to hearing, interrupt sleep and impact local amenity. Community/stakeholder complaints. Enforcement action	VH-21	Project EMP to include Noise and Vibration monitoring and management actions. Weekly environmental inspection to include review of noise and vibration control measures. Community complaints to noise impacts are investigated. Noise monitoring conducted in event of complaint. Out of hours works are approved by client with community notification undertaken. Out of hours works toolbox talk undertaken, and noisy activities conducted early in the night where possible.	H-13	Environmental Protection Act 1994 Environmental Protection Regulation 2019 Environmental Protection (Air) Policy 2019 Environmental Protection (Noise) Policy 2019 AS 1055.2—1997 Acoustics—Description and measurement of environmental Noise Transport Noise Management Code of Practice: Volume 2 – Construction Noise and Vibration MRTS 51 Environmental Management Noise Management Manual, DEHP 2013
1850 Environment	Construction	Construction activities on site, incl. use of mobile plant, clearing and grubbing, earthworks, installation of structures, use of goods and materials.	Flora and Fauna	Noise and vibration levels are likely to increase during construction which may disturb native fauna. Physical disturbance within areas of the native vegetation would generally promote weed colonisation from other areas. Operation of mobile plant and equipment near habitats could injure or kill flora and fauna. Over-clearing of vegetation. Use of mobile plant that may injure fauna. Dust fall out can smother leaves of vegetation. Destruction/ damage to protection vegetation. Community/ stakeholder complaints. Enforcement action	E-23	Project EMP to include Flora and Fauna monitoring and management actions. Review of State and Local Government protected areas and threatened species mapping. Use of dust control techniques to prevent excessive dust pollution. Installation of tree protection/ exclusion fencing around protected areas. Staff awareness of protected flora and fauna. Use of spotter/ catchers for interactions with any fauna. Weekly environmental inspection to include review of site-wide flora and fauna protection strategies.	M-8	Environmental Protection Act 1994 Environmental Protection Regulation 2019 Environmental Protection (Water and Wetland Biodiversity) Policy 2019 Nature Conservation Act 1992 Nature Conservation (Protected Plants) Conservation Plan 2000 Nature Conservation (Wildlife Management) Regulation 2006 Vegetation Management Act 1999 AS 4970 Protection of trees on development sites AS 4373 Pruning of Amenity trees MRTS 51 Environmental Management

1849	Environment	Construction	Construction activities on site, incl. use of mobile plant, clearing and grubbing, earthworks, installation of structures, use of goods and materials.	Soil Erosion and Stability	Where exposed by removal of vegetation and consequent loss of stabilising root systems, or where exposed by earthworks, friable soils are the subject of erosive forces by wind and water due to the lack of soil stability. Erosion will contribute to the sedimentation and increased turbidity of water courses. Erosion and sedimentation can adversely affect drainage capacity and drainage patterns as well as impact on any adjacent vegetation habitat areas and species composition. Community/ stakeholder complaints. Enforcement action	E-23	Project EMP to include Erosion and Sediment Control monitoring and management actions. Project ESCP (if required) to be developed to designate required ESC types, locations and maintenance requirements. Erosion and sediment control inspection routine to be included within project inspection.	H-13	Environmental Protection Act 1994. Environmental Protection Regulation 2019. Best Practice Erosion and Sediment Control, IECA 2008. MRTS 51 Environmental Management. MRTS 52 Erosion and Sediment Control.
1848	Environment	Construction	Construction activities on site, incl. use of mobile plant, clearing and grubbing, earthworks, installation of structures, use of goods and materials.	Water Quality	Inadequate sediment control procedures or heavy rainfall periods may lead to contamination of adjacent waterways. Water captured in excavations/ trenches on site fill with water and require discharging. Recycled water potential to transport pathogens and microbes. Spills of hazardous substances on site contaminating waterways. Unnecessary use of water resources. Community/ stakeholder	E-23	Project EMP to include Water Quality monitoring and management sections. Project ESCP (if required) to include water quality monitoring and management procedures. Water quality monitoring (visual, instrument or laboratory testing) to be undertaken after significant rainfall. No discharging of water from trenches, excavations etc., with testing of water and approval from project environmental advisor. Use of recycled water to be separate from eating, drinking areas, and away from sensitive environmental areas. Water efficiency devices to be installed where practicable to minimise water use.	M-8	Environmental Protection Act 1994. Environmental Protection Regulation 2019. Environmental Protection (Water and Wetland Biodiversity) Policy 2019. Water Act 2000. Water Supply (Safety and Reliability) Act 2008.

1847	Environment	Construction	Construction activities on site, Air Quality incl. use of mobile plant, clearing and grubbing, earthworks, installation of structures, use of goods and materials	Fumes and dust can be generated by construction and maintenance equipment. Dust can be generated from stockpiling fill and transporting fill. Construction activities at the site have the potential to create large amounts of dust, which could affect flora and fauna and surrounding stakeholders. If significant amounts of dust settle on vegetation, it could affect the health of the vegetation and impact of fauna that feed on the vegetation. Use of aerosols and gasses that contribute to poor air quality. Community/ stakeholder	VH-21	Project EMP to include Air Quality Monitoring and management section. Project ESCP (if required) to include management of stockpiles to manage air quality. Plant packs for all mobile plant to include vehicle maintenance records. Site Inspection records to observe dust emissions on site. Use of dust suppression in areas where dust emissions are likely. Consideration of placement of stationary plant (i.e. generators) to ensure exhaust is directed away from receptors.	M-8	Environmental Protection Act 1994. Environmental Protection Regulation 2019. Environmental Protection (Air) Policy 2019. AS2922 Ambient Air Guide for siting Sampling Equipment. AS3580.10.1-1991 Method of Sampling Analysis of Ambient Air. Environmental Protection Agency Air Quality Sampling Manual.
1846	Environment	Procurement	Applying for Licences, Permits and Approvals	To ensure all licences requirements are identified and implemented prior to construction.	VH-21	Project EMP developed. Review of project specific environmental specifications. Tender/ Project Team handover conducted highlighting environmental requirements. Environmental permits/ licence requirements specific to any subcontractor	H-13	Environmental Protection Act 1994. Environmental Protection Regulation 2019. MRTS 51 Environmental Management. MRTS 52 Erosion and Sediment Control.
1845	Environment	Procurement	Selection of materials and goods used on the project	To ensure that all materials procured for the project are weed & Fire Ant free and stored appropriately on-site to minimise environmental risks.	VH-17	Weed and Seed Hygiene Declaration required for all pieces of plant coming onto site. Biosecurity Instrument Permits received for all quarry materials sourced from within Fire Ant/ Biosecurity Management Zones.	M-5	Biosecurity Act 2014. Environmental Protection Act 1994. Environmental Protection Regulation 2019. MRTS 51 Environmental Management.
1844	Environment	Procurement	Selection of subcontractor employees and staff for the project	To ensure that all employees working on the project are committed to environmental protection and willing to undertake appropriate training.	VH-21	Approved suppliers to be used on the project. All subcontractors to undertake project induction. Subcontractor SWMS to be reviewed to highlight any project environmental requirements for high risk activities.	M-5	Environmental Protection Act 1994. Environmental Protection Regulation 2019. MRTS 51 Environmental Management. MRTS 52 Erosion and Sediment Control.
1843	Environment	Procurement	Selection of McIlwain employees and staff for the project	To ensure that all employees working on the project are committed to environmental protection and willing to undertake appropriate training.	VH-21	Project induction to include project environmental requirements. Project team to be part of risk assessment and review the environmental risk register.	M-5	Environmental Protection Act 1994. Environmental Protection Regulation 2019. MRTS 51 Environmental Management. MRTS 52 Erosion and Sediment Control.

1842	Environment	Procurement	Procurement and selection of Plant and Equipment	Minimise the risk of environmental harm from the operation of plant and equipment.	Leaking of oil and/or fuel from equipment. Excessive air pollution from exhaust emissions. Excessive noise from operating plant. Excessive vibration from operating equipment.	VH-17	Plant Pack process for all mobile plant, including plant risk assessment, maintenance docketts etc. Use of approved suppliers.	M-5	Environmental Protection Act 1994. Environmental Protection Regulation 2019. MRTS 51 Environmental Management. MRTS 52 Erosion and Sediment Control.	
1841	Environment	Preliminary Work	Applying for Licences, Permits and Approvals	Work being undertaken without the correct licences and fines being issued.	Damage to environmental values. Breach of licence/ contractual conditions. Legal action undertaken against the company.	VH-21	Project EMP developed. Review of project specific environmental specifications. Tender/ Project Team handover conducted highlighting environmental requirements.	M-5	Environmental Protection Act 1994. Environmental Protection Regulation 2019. MRTS 51 Environmental Management. MRTS 52 Erosion and Sediment Control.	
1840	Environment	Preliminary Work	Site Establishment	Mobilisation to site. Establishment of site compounds etc.	Damage to environmental values of the work area prior to assessment. Breach of licence/ contractual conditions. Legal action undertaken against the company.	VH-17	Project EMP approved. Client approval received for establishment of site compound. ESCP for site compound developed.	M-5	Environmental Protection Act 1994. Environmental Protection Regulation 2019. MRTS 51 Environmental Management. MRTS 52 Erosion and Sediment Control.	
1829	Health and safety	Construction	Copy Of Construction work on or near overhead services	1. Overhead services	1. Contact with overhead services 2. Damage to overhead services 3. Personal injury	E-24	1. Exclusion zones setout and authorised Electrical Safety Observer in place (M320 trained) 2. Powerline above, 'Goal Post' Flagging or Yellow people to be in place where powerlines are located on site, heights indicated of service height 3. Project approved SWMS 4. Competent plant operators (RII and VOC) 5. If >3m from overhead service trained spotters to be used 6. At all work sites, where there is a risk of plant coming into contact with power poles, a 1.5m exclusion zone shall be set up to protect the pole at that worksite	1. Flashing lights are to be positioned directly below when working in the vicinity of overhead power lines	H-14	Electrical Safety Act 2002 Electrical Safety Regulation 2013 Work Health and Safety Act 2011 Chapter 4, Part 4.3 Division 3, Work Health and Safety Regulation 2011 Electrical Safety Code of Practice 2010 - Working near exposed live parts AS/NZS 3012:2003 Electrical installations - Construction and demolition sites How to Manage Work Health and Safety Risks Code of Practice 2011
65	Health and safety	Construction	Establishment long term temporary traffic control requirements	1. Working near live traffic 2. Working at heights 3. Overhead and underground services	1. Injury/ Loss of life 2. Damage to assets	VH-22	1. Project approved SWMS 2. Positive communications 3. Projects to detail Entry and Exit points on site, site VMP displayed and explained to all personnel 4. Implementation of an approved TMP / TGS requirements to separate construction and public traffic, this is to be inspected daily to ensure compliance & to ensure effectiveness 5. Registered traffic control company to be utilised 6. Use of signage/ barriers/ flagging/		H-14	Work Health and Safety Act 2011 Work Health and Safety Regulation 2011 How to Manage Work Health and Safety Risks Code of Practice 2011 Traffic Management for Construction or Maintenance Work Code of Practice 2008 MUTCD Part 3
64	Health and safety	Construction	Clearing and Grubbing	1. Falling objects 2. Underground and Overhead services 3. Mobile Plant Interaction 4. Small Plant	1. Injury/ Loss of life 2. Damage to assets	VH-22	1.Exclusion zones to be in place 2.Falling objects protection structures (ROPS and FOPS) 3.Competent plant operators 4. SWMS and PTA address clearing risks 5. Trained spotters		H-14	Work Health and Safety Act 2011 Work Health and Safety Regulation 2011 How to Manage Work Health and Safety Risks Code of Practice 2011 Managing the Risks of Plant in the Workplace Code of Practice 2013

63 Health and safety	Construction	Work in areas with potential for flooding	1.Chemical & Fuels 2.Plant and equipment 3.Falling into water	1.Environmental impact 2.Damage 3.injury / loss of life	VH-18	1.Weather conditions for site and upstream to be monitored (refer Severe Weather Management Plan if available). 2.In the event of likely high rain event - all plant, people, equipment and chemicals to be removed from low lying areas with	M-5	Work Health and Safety Act 2011 Work Health and Safety Regulation How to Manage Work Health and Safety Risks Code of Practice 2011
62 Health and safety	Construction	Operating a light vehicle on public roads	1.Animals 2.Other vehicles 3.Pedestrians 4.Material transport 5. Faulty vehicle	1.injury/ loss of life (incl humans and animals) 2.Damage to vehicle	VH-21	1.All persons responsible for operating a light vehicle shall hold the relevant licence to do so 2.Traffic control measures (TMP) 3.Only appropriate tie down straps and cargo nets to be used 4.Loads must always be appropriately secured (incl. towed equipment)	M-9	How to Manage Work Health and Safety Risks Code of Practice 2011 Managing the Work Environment and Facilities Code of Practice 2011 Work Health and Safety Consultation, Co-Operation and Co-Ordination Code of Practice 2011 First Aid in the Workplace Code
61 Health and safety	Construction	Responding to an emergency and Administration of First Aid	1.Untrained persons/ Emergency positions 2.No outside communications 3.Emergency Equipment not maintained or Not enough equipment for site location 4.Inadequate access/egress for emergency services	1. Injury/ loss of life	E-24	1.Pre-start project meetings 2.Roles And Responsibilities Of Authority Identified, refer Emergency Response Plan. 3.Identified & Displayed emergency personnel 4.Site traffic movement plan in place - identifying assembly areas 5.Site specific inductions 6.Weekly inspections 7.Emergency & First Aid Equipment Risk Assessment to be conducted for each site- Location 8.Conduct emergency drill - Assessment completed as per table in Emergency Response Plan or WHSMP 9.Designate emergency service access/egress	H-13	Work Health and Safety Act 2011 Work Health and Safety Regulation 2011 How to Manage Work Health and Safety Risks Code of Practice 2011 Managing the Work Environment and Facilities Code of Practice 2011 Work Health and Safety Consultation, Co-operation and Co-ordination Code of Practice 2011 How to Manage Work Health and Safety Risks Code of Practice 2011 Managing the Work Environment and Facilities Code of Practice 2011 Work Health and Safety Consultation, Co-Operation and Co-Ordination Code of Practice 2011 First Aid in the Workplace Code
60 Health and safety	Construction	Housekeeping at the workplace	1.Unsafe & clear entry to & from workplace 2.No system for collecting, storing & disposing of waste materials 3.Not enough area to safely store materials 4.Tools and materials not secured at the end	1.Slips, Trips & Falls/ Injury/ Medical Attention 2.Theft of tools and materials	E-23	1.Weekly inspections 2.Planned Job Observations 3.Toolbox Talks 4.Reporting of non conformances to supervisor 5.PTRA (Pre Task Risk Assessment) 6.Bulk skip bin provided 7.Whole of site to be checked at the end of the day 8.All tools and loose items to be securely	M-8	Work Health and Safety Act 2011 Chapter 3, Part 3.1, Work Health and Safety Regulation 2011 How to Manage Work Health and Safety Risks Code of Practice 2011 Managing the Work Environment and Facilities Code of Practice 2011 Work Health and Safety Consultation, Co-Operation and Co-Ordination Code of Practice 2011
59 Health and safety	Construction	Performing work where there is potential health hazards.	1.Poisoning - Hazardous Chemicals 2.Silica Dust - jack hammering & concreting 3.Fumes - Hazardous Chemicals 4.Excessive Noise - jack hammering 5.Site Dust - from dry conditions	1. Personal health impacts including lung and hearing damage	E-23	1.Training in the Hazardous Substance Risk Assessments and use of PPE. 2.Plant packs for all mobile plant to include up to date service history's 3.Water suppression to be used to lower dust levels. 4.Project approved SWMS and PPE must be worn. Workers to be trained in the use of PPE. 5. Safety Data Sheets and Risk Assessments to be compiled in Chemwatch.	H-14	Work Health and Safety Act 2011 Work health and Safety Regulation 2011 How to Manage Work Health and Safety Risks Code of Practice 2011 Managing risk of hazardous chemicals - COP 2013 Noise preventing hearing loss - COP 2011 Hazardous Substance Risk Assessments

58 Health and safety	Construction	Bullying or harassment at the workplace	1. Absenteeism, 2. complaints, withdrawn and isolated, erosion of loyalty and commitment	1. Injury/ Medical attention/ 2. Loss of production	VH-20	1.Promotion of a no blame reporting culture. 2.Use of Mates in Construction Hotline 3.Possible rotation to another work crew	M-9	Work Health and Safety Act 2011 Work Health and Safety Regulation 2011 How to Manage Work Health and Safety Risks Code of Practice 2011 Work Health and Safety Consultation, Co-Operation and Co-Ordination Code of Practice 2011 Managing the Work Environment and Facilities Code of Practice 2011 Prevention of Workplace Harassment Code of Practice 2004
57 Health and safety	Construction	Fatigue	1.Unfit for duty (lack of sleep) 2.Driving while tired 3.Inattention to detail	1. Injury/ loss of life	VH-21	1. Hours of travel are not to exceed 14hr working day 2.Toolbox topic - Fatigue Management Procedure 3.Notify supervisor 4.Regular rest periods are to be taken every 2 hrs of travel with a minimum of 20min rest per period 5.Site specific induction 6.Communicate with others to advise of progress while travelling 7.Task rotation to ensure mind remains active	M-9	Work Health and Safety Act 2011 Work Health and Safety Regulation 2011 Work Health and Safety Consultation, Co-Operation and Co-Ordination Code of Practice 2011 How to Manage Work Health and Safety Risks Code of Practice 2011 Managing the Work Environment and Facilities Code of Practice 2011 Prevention of Workplace Harassment Code of Practice 2004 November 2007, Part 11 - Guideline for fatigue management
56 Health and safety	Construction	Other personnel fitness for work risks at the workplace	1. Unfit for duty	1. Injury/ loss of life	VH-20	1.Stood down from duties following investigation. 2.Site specific induction, non work related injury reporting culture is promoted. 3.Toolbox Talks - Fatigue management 4.Training and education for workers 5.Notify your supervisor 6.Access to MCE Employee Assistance Program 7.Mates in Construction hotline	M-9	How to Manage Work Health and Safety Risks Code of Practice 2011 Managing the Work Environment and Facilities Code of Practice 2011 Work Health and Safety Consultation, Co-Operation and Co-Ordination Code of Practice 2011 First Aid in the Workplace Code of Practice 2014 Prevention of Workplace Harassment Code
55 Health and safety	Construction	Alcohol or other drugs at the workplace	1.Unfit for duty (affected by drugs or alcohol) 2.Unfit for duty (operating mobile plant)	1. Injury/ loss of life	VH-21	1.Site specific induction - Alcohol & Drug Policy 2.Toolbox Talks - Alcohol & Drug Policy 3.Project Drug and Alcohol Testing Program, including self testing. 7.Stood down from duties, following investigation.	M-9	Work Health and Safety Act 2011 Work Health and Safety Regulation 2011 How to Manage Work Health and Safety Risks Code of Practice 2011 Work Health and Safety Consultation, Co-Operation and Co-Ordination Prevention of Workplace Harassment code of Practice
54 Health and safety	Construction	Amenities at the workplace	1.Lack of Toilets 2.Small crib hut 3.Lack of Hygiene for amenities	1.Complaints from workers 2.Complaints from workers 3.Complaints from workers	VH-20	1. Hire Toilets to be provided on site 2.Weekly inspections/ maintenance, fit for purpose. 3.Engage a supplier that cleans amenities 4.Nominate a worker to clean toilets	L-2	Work Health and Safety Act Schedule 5A, Work Health and Safety Regulation 2011 How to Manage Work Health and Safety Risks Code of Practice 2011 Managing the Work Environment and Facilities Code of Practice 2011 Work Health and Safety Consultation, Co-Operation and Co-Ordination Code of Practice 2011

53 Health and safety	Construction	Access and egress to, from and within the workplace	1.Traffic moving through and around work area 2.Pedestrians/cyclists moving through and around work area 3.Speeding vehicles 4.Construction vehicles entering and exiting site	1.Collision / impact 2.Injury – Slips, trips, falls 3.Collision / impact 4.Environmental impact 5.Collision / impact - workers, pedestrian, public vehicles	E-24	1.Induction of all workers and subcontractors 2.Localised Traffic control measures (TMP), site VMP 3.Safety house keeping signage (Principal contractor, reporting requirements and authorisation) 4.Trained First Aiders & ERP 5.Materials to be located within the area compound 6.Clear Delineation, Separation for pedestrian cyclists access, suitable and maintained pathways. 7.DirectionaI signage 8.Certified Traffic controllers 9.Maintenance of clear access for cyclists 10.Traffic control measures (TMP), inspected and recorded daily. 11.Observations of vehicle speeds 12.Site specific inductions 13.Contact Police if non-compliance continues 14.Spill kits available	H-13	Work Health and Safety Act 2011 Chapter 3, Part 3.1 Work Health and Safety Regulation 2011 How to Manage Work Health and Safety Risks Code of Practice 2011 Work Health and Safety Consultation, Co-Operation and Co-Ordination Code of Practice 2011 Managing the Risk of Falls at Workplaces Code of Practice 2011 Managing the Risk of Hazardous Chemicals in the Workplace Code of Practice 2013 Labelling of Workplace Hazardous Chemicals Code of Practice 2011 Preparation of Safety Data Sheets for Hazardous Chemicals Code of Practice 2011 Traffic Management for Construction or Maintenance Work Code of Practice 2008 Manual of Uniform Traffic Control Devices
52 Health and safety	Construction	Hiring labour to perform construction work	1. Untrained personnel	1. Injury/ medical treatment	E-24	1.General Safety Induction card 2.Site specific inductions 3.SWMS and PTRAs 4.Experience with in the construction industry - use of experienced and approved labour hire providers. 5. Review licences and VOC's of any	H-13	Work Health and Safety Act 2011 Work Health and Safety Regulation 2011 Electrical Safety Act 2002 Electrical Safety Regulation 2013 How to Manage Work Health and Safety Risks Code of Practice 2011
51 Health and safety	Construction	Engaging subcontractors to carry out construction work or work within a construction site	1.Contractors with a poor performance history 2.Lack of communication & planning	1. Injury/ loss of life	E-24	1.Engage another contractor, refer to approved supplier register for list of approved contractor and suppliers. 2.Non conformance reports 3.Conduct contractor SWMS checklist 4.Conduct task observations 5.PTRA (Pre Task Risk Assessment) 6.Tool box talks/ Pre start Meetings 7.Discuss subcontractor & suppliers at Internal project meetings.	H-13	Work Health and Safety Act 2011 Work Health and Safety Regulation 2011 Electrical Safety Act 2002 Electrical Safety Regulation 2013 How to Manage Work Health and Safety Risks Code of Practice 2011
50 Health and safety	Construction	Hiring plant for construction work	1.Plant not maintained to manufacturers requirements 2.Plant not suitable for the task 3.Plant not supplied with appropriate information	1.injury/ loss of life 2.injury/ medical treatment 3.loss of production/ medical treatment	E-24	1.Verification of plant service history 2.Plant fitted with all safety devices 3.Plant serviced by qualified persons 4.Records of defects and alterations to plant 5.Plant Hazard Identification & Risk Assessment checklist 6.Plant Pack Checklist 7.Approval of MCI Plant Pack process. 8.Operators of plant VOC'd for plant use. 9.Pre-start meetings 10.Identify plant requirements at project	H-14	Work Health and Safety Act 2011 Work Health and Safety Regulation 2011 Managing the Risks of Plant in the Workplace Code of Practice 2013 Mobile Crane Code of Practice 2006 Safe Design and Operation of Tractors Code of Practice 2005 How to Manage Work Health and Safety Risks Code of Practice 2011 AS 2294.1-1997 Earth-moving machinery - Protective structures

49 Health and safety	Construction	Procurement of goods or services for construction work	1. Non conforming materials and goods	1. Injury/ loss of life 2. Property damage	VH-21	1.Review of design changes to scope of works 2.Review of design changes to project risks 4.Identify a less hazardous material 5.Risk assessments for hazardous chemicals 6.Ensure SDS is obtained when purchasing chemicals 7.Ensure work teams are aware of locations of medical centres in the emergency response plan.	M-5	Electrical Safety Act 2002 Part 8, Electrical Safety Regulation 2013 Work Health and Safety Act 2011 Chapter 7, Part 7.1, Work Health and Safety Regulation 2011 Managing the Risks of Plant in the Workplace Code of Practice 2013 How to Manage Work Health and Safety Risks Code of Practice 2011 Managing the Risk of Hazardous Chemicals in the Workplace Code of Practice 2013 Labelling of Workplace Hazardous Chemicals Code of Practice 2011 Preparation of Safety Data Sheets for Hazardous Chemicals Code of Practice 2011
48 Health and safety	Construction	Work involving the use of ladders	1. Slips and falls from ladders	1. Injury/ loss of life	VH-21	1.No work on ladders (Unless Platform Type) 2.Use industrial ladder platforms on stable ground 3.Use temporary mobile platforms before ladder platforms 4.Ladders are only used for access and egress. 3 points of contact must be maintained when using a ladder for access egress. 5.Must be secured at base and extend 1m past the high level 6.PTRA (Pre Task Risk Assessment)	H-15	Work Health and Safety Act 2011 Work Health & Safety Regs 2011 Chapter 6,Part 6.3 ,Division 4, Subdivision3,Work Health and Safety Regulation 2011 Work Health and Safety Consultation, Co-Operation and Co-Ordination Code of Practice 2011 How to Manage Work Health and Safety Risks Code of Practice 2011 Managing the Risk of Falls at Workplaces Code of Practice 2011 Managing the Risks of Plant in the Workplace Code of Practice 2013 AS/NZS 1891.4:2009 Industrial fall-arrest systems and devices
47 Health and safety	Construction	Working on a mobile or temporary platform (mobile scaffold or powered EWP)	1. Falling/ overturning from a mobile platform	1. Injury/ loss of life 2. Property damage	E-24	1. All mobile plant to complete a plant pack and approved by Mcilwain project staff 2. All operators of EWP's have appropriate high risk work licence 3. Any works above where risk of fall more than 2m a working at height works permit is approved. 4. PTRA (Pre Task Risk Assessment)	H-15	Work Health and Safety Act 2011 Chapter 5,Subdivision3, Work Health and Safety Regulation 2011 How to Manage Work Health and Safety Risks Code of Practice 2011 Managing the Risk of Falls at Workplaces Code of Practice 2011 Work Health and Safety Consultation, Co-Operation and Co-Ordination Code of Practice 2011 Scaffolding Code of Practice 2009 Managing the Risks of Plant in the Workplace Code of Practice 2013 AS/NZS 1891.4:2009 Industrial fall-arrest systems and devices AS/NZS 4576:1995 Guidelines for scaffolding Current Legislation AS 1891.4 - Harness Inspections

46 Health and safety	Construction	Working above or below other people	1. Falling objects	1. Injury/ loss of life 2. Property damage	E-24	1. Exclusion zones below workers are set up. 2. Works at height have appropriate edge protection to prevent person or equipment from falling. 3. Appropriate PPE is worn in areas to protect from falling objects. 4. PTR A (Pre Task Risk Assessment)	M-9	Work Health and Safety Act 2011 Work Health and Safety Regulation 2011 How to Manage Work Health and Safety Risks Code of Practice 2011 Managing the Risk of Falls at Workplaces Code of Practice 2011 Work Health and Safety Consultation, Co-Operation and Co-Ordination Code of Practice 2011
45 Health and safety	Construction	Working outdoors with fauna	1. Bitten or stung by animals	1. Injury, loss of life	VH-21	1. Clear long grass and vegetation from around work areas 2. Works are reminded in induction not to handle animals. Only spotter/catcher to handle animals. 3. First aiders to be on site and first aid kits have appropriate resources for bites/stings. 4. PTR A (Pre Task Risk Assessment)	M-9	Work Health and Safety Act 2011 Work Health and Safety Regulation 2011 How to Manage Work Health and Safety Risks Code of Practice 2011 Managing the Risk of Falls at Workplaces Code of Practice 2011 Managing the Work Environment and Facilities Code of Practice 2011 Work Health and Safety Consultation, Co-Operation and Co-Ordination Code of Practice 2011
44 Health and safety	Construction	Working outdoors in rain/storming environments	1. Hypothermia, 2. Muscle strain 3. Slipper conditions	1. Injury	H-13	1. Schedule works away from the coldest parts of the day where possible. 2. Works in wet weather or storms cancelled 3. Use of appropriate PPE 4. Works conducted in team and no one left to work alone. 5. Workers to warm up appropriately 6. Slip hazards addressed prior to works 7. PTR A (Pre Task Risk Assessment)	M-5	Work Health and Safety Act 2011 Work Health and Safety Regulation 2011 How to Manage Work Health and Safety Risks Code of Practice 2011 Managing the Risk of Falls at Workplaces Code of Practice 2011 Managing the Work Environment and Facilities Code of Practice 2011 Work Health and Safety Consultation, Co-Operation and Co-Ordination Code of Practice 2011
43 Health and safety	Construction	Working outdoors in cold environments	1. Hypothermia, 2. Muscle strain	1. Injury	H-13	1. Schedule works away from the coldest parts of the day where possible. 2. Use of appropriate PPE 3. Works conducted in team and no one left to work alone. 4. Workers to warm up appropriately 5. PTR A (Pre Task Risk Assessment)	M-5	Work Health and Safety Act 2011 Work Health and Safety Regulation 2011 How to Manage Work Health and Safety Risks Code of Practice 2011 Managing the Risk of Falls at Workplaces Code of Practice 2011 Managing the Work Environment and Facilities Code of Practice 2011 Work Health and Safety Consultation, Co-Operation and Co-Ordination Code of Practice 2011
42 Health and safety	Construction	Working outdoors in hot environments	1. Working in hot environments, 2. Exposure to sun,	1. Heat stress 2. sunburn/ skin cancers	VH-21	1. Schedule works away from the hottest parts of the day. 2. Use of long sleeve clothing, sunscreen and hat brims. 3. Use of shade shelters for stationary works. 4. Provision of adequate breaks and water supply. 5. Works conducted in teams and no one left to work alone. 6. Project approved SWMS & PTR A	M-9	Work Health and Safety Act 2011 Work Health and Safety Regulation 2011 How to Manage Work Health and Safety Risks Code of Practice 2011 Managing the Risk of Falls at Workplaces Code of Practice 2011 Managing the Work Environment and Facilities Code of Practice 2011 Work Health and Safety Consultation, Co-Operation and Co-Ordination Code of Practice 2011

41 Health and safety	Construction	Workers exposed to excess noise	1. Loss of hearing	1. Hearing loss	VH-21	1. Separate workers for noisy plant 2. Enclose or install barricades around noisy items of plant 3. Identify noisy activities/items of plant that require hearing protection 4. Use hearing protection 5. Identify noise hazards in PTRAs	M-9	Work Health and Safety Act 2011Chapter 4,Part 4.1 Work Health and Safety Regulation 2011 Managing Noise and Preventing Hearing Loss at Work Code of Practice 2011 How to Manage Work Health and Safety Risks Code of Practice 2011
40 Health and safety	Construction	Work involving manual tasks	1. Physical injury due to manual tasks	1. Injury	VH-21	1. Mechanical lifting devices used as the preferred method of lifting. 2. Risk assessment to identify tasks and controls to avoid injury 3. Manual handling training delivered in toolbox talk and/or induction. 4. Team lifting used as required. 5. PPE (Gloves) to be used for manual tasks 6. PTRAs (Pre Task Risk Assessment)	M-9	Work Health and Safety Act 2011 Work Health and Safety Regulation 2011 How to Manage Work Health and Safety Risks Code of Practice 2011 Hazardous Manual Task Code of Practice 2011 Managing the Risks of Plant in the Workplace Code of Practice 2013
39 Health and safety	Construction	Work involving the unloading and loading of plant, goods and materials on site	1. Uncontrolled movements, 2. Falling objects, 3. Plant interaction with workers and plant, 4. Falling from height	1. Injury/ loss of life 2. Property damage	VH-21	1. Establish loading/unloading technique/protocol suitable to the ground conditions, material, operators and plant being used, suitable area for activity, exclusion zone. 2. Ensure operators are licensed and have current VOC'd. 3. Visual inspections of plant/vehicle before starting by competent person. Daily pre starts. Plant pack completed, approved for site use, daily pre start completed. 4. Safe working areas are clearly	M-9	Work Health and Safety Act 2011 Chapter 5, Part 5.1, Division 7,Subdivision 3, Work Health and Safety Regulation 2011 How to Manage Work Health and Safety Risks Code of Practice 2011 Managing the Risk of Falls at Workplaces Code of Practice 2011 Hazardous Manual Tasks Code of Practice 2011 Managing the Risks of Plant in the Workplace Code of Practice 2013
38 Health and safety	Construction	Work involving the handling, storage, transportation or other use of hazardous chemicals and dangerous goods including refuelling	1. Handling of hazardous, flammable and/or toxic substances	1. Uncontrolled releases 2. Fire or explosion 3. Inhalation of substances	VH-21	1. Refuelling to be carried out in designated areas, away from environmentally sensitive locations, water courses and the like. Spill kits available at refuelling locations. 2. Ensure SDS Safety requirements are followed and correct PPE is worn 3. Only equipment designed for the purpose to be used for refuelling. Fit for purpose, inspected everyday prior to use. 4. Spill kits to be available on site/ at refuelling point and storage area. 5. Ensure small engines are cooled down prior to refuelling at all times.	M-9	Part 16, Division 2, Work Health and Safety Act 2011 Work Health and Safety Regulation 2011 Managing the Risk of Hazardous Chemicals in the Workplace Code of Practice 2013 Labelling of Workplace Hazardous Chemicals Code of Practice 2011 Preparation of Safety Data Sheets for Hazardous Chemicals Code of Practice 2011
37 Health and safety	Construction	Work involving the use of hand tools or appliances	1. Sharp edges causing injury. 2. Pinch points causing injury 3. Energised implements causing injury.	1. Injury / Serious cuts to hands and fingers 2. loss of life	VH-17	1. Tools are used for their designed use, inspected daily prior to use. 2. Current test tag for all electrical equipment. 3. Trained staff, suitable Supervision. 4. SWMS/ PTRAs (Pre Task Risk Assessment) & training	M-9	Work Health and Safety Act 2011 Work Health and Safety Regulation 2011 Hazardous Manual Tasks Code of Practice 2011 How to Manage Work Health and Safety Risks Code of Practice 2011 Managing the Risks of Plant in the Workplace Code of Practice 2013 AS/NZS 3760:2010 In-service safety

36 Health and safety	Construction	Construction work involving scaffold	Scaffold failure, falls from heights and falling objects	1. Injury/ loss of life 2. Property damage	E-24	1. Project Approved SWMS 2. Designed exclusion zones for erection and dismantling 3 Safe Housekeeping on work platforms 4. No Bombing of materials 5. Certified scaffolders to erect, modify and dismantle, complete sign offs handovers incl Scafftag system. 6. Scaffold hand over certificate once complete, periodic inspection records to be provided to Mcllwain.	H-14	Work Health and Safety Act 2011 Chapter 6,Part 6.3, Subdivision 4, Work Health and Safety Regulation 2011 Scaffolding Code of Practice 2009 How to Mange Work Health and Safety Risks Code of Practice 2011 Hazardous Manual Tasks Code of Practice 2011 Managing the Risk of Falls at Workplaces Code of Practice 2011 Managing the Risks of Plant in the
35 Health and safety	Construction	Construction work involving diving	1. Drowning or near drowning of a person.	1. Injury/ loss of life	E-24	1. SWMS task involving diving developed and approved by PM 2. Use of competent, certified divers only. 3. Emergency response plan developed and in place prior to works. 4. PTR (Pre Task Risk Assessment)	H-14	Work Health and Safety Act 2011 Work Health and Safety Regulation 2011 How to Manage Work Health and Safety Risks Code of Practice 2011
34 Health and safety	Construction	Construction work in, or adjacent to water or other liquids where there is a risk of drowning	1. Fatality - individual & multiple 2. Drowning 3. Head and internal injury, fractures and contusions requiring medical treatment or hospitalisation	1. Injury/ loss of life/ 2. Property damage	E-24	1. Project approved SWMS on task involving working near water developed and approved by PM 2. Project specific emergency response plan developed addressing the risk of drowning. 3. Appropriate PFD's are provided and workers trained in their use. 4. Barricades and signage erected around	H-14	Work Health and Safety Act 2011 Work Health and Safety Regulation 2011 How to Manage Work Health and Safety Risks Code of Practice 2011
33 Health and safety	Construction	Construction work involving the use of welding equipment	Burns, fire, explosion, electrocution due to incorrect use	1. Injury/ loss of life	VH-21	1. Project Approved SWMS 2. Hot Works permit is in place, requirements of permit are complied with 3. Fire fighting equipment at the ready, compliant fit for purpose. All bottles stored as per SDS requirements. 4. Flashback eliminators on both the gauge and handle, within inspection timeframes. 5. Pre-use checks for damage, fit for purpose. 6. Trained - Competent personnel, familiar with SDS requirements. 7. Suitable screens are to be erected to prevent others/General Public from	M-9	Work Health and Safety Act 2011 Chapter 4, Part 4.3, Division 3 Work Health and Safety Regulation 2011 Managing the Risk of Hazardous Chemicals in the Workplace Code of Practice 2013 Labelling of Workplace Hazardous Chemicals Code of Practice Preparation of Safety Data Sheets for Hazardous Chemicals Code of Practice 2011 Hazardous Manual Tasks Code of Practice 2011 How to Manage Work Health and Safety Risks Code of Practice 2011 Steel Construction Code of Practice 2004

32 Health and safety	Construction	Construction work involving the use of cranes or other plant for lifting	1. Incorrect operation leading to failure 2. Incorrect setup leading to failure 3. Poorly maintained equipment leading to failure 4. Lack of planning 5. Poor ground conditions	1. Injury/ loss of life 2. Property damage	E-24	1. Competent, licenced and VOC'd operators to operator cranes 2. All Cranes over 10t, Registered as plant with WHS Qld. Comply with all other requirements as per the Mobile Crane COP 3. All Cranes Shall have complete plant packs and provide all supporting documentation to MCE, for review and approval prior to use 4. Project approved SWMS to be generated and include lift studies for Major and Critical Lifts 5. Weights, Radius etc. to be determined and recorded as part of crane lift study for Major and Critical Lifts 6. Set up and operation of a crane to be undertaken as per OEM requirements 7. Crane bearing surfaces (ground conditions) need to be inspected and approved as required 8. PTA for all tasks (Pre-Task Assessment) 9. All pick and carry cranes shall have	H-14	HSE-P-15 Cranes and Lifting Work Health and Safety Act 2011 Chapter 4, Part 4.5, Division1 Work Health and Safety Regulation 2011 Concrete Pumping Code of Practice 2018 Formwork Code of Practice 2014 Managing the Risks of Plant in the Workplace Code of Practice 2013 Mobile Crane Code of Practice 2006 How to Manage Work Health and Safety Risks Code of Practice 2011 Scaffolding Code of Practice 2009 Tower Crane Code of Practice 2006 Tilt-up and Pre-cast Code of Practice 2006 AS 2550.1-2002 Cranes - safe use set
31 Health and safety	Construction	Construction work in an area that may have a contaminated or flammable atmosphere	1. Unsafe oxygen levels or hazardous substances in the air	1. Injury/ loss of life/ 2. Property damage	VH-21	1. Conduct works from outside of contaminated area 2. Installation of exclusion zones, signage & barricading. 3. Use of natural ventilation/mechanical ventilation to clear atmosphere. 4. Confined Space Entry Permit, procedures and competencies. 5. Atmospheric monitoring prior/during entry as required by SWMS & COP	M-9	Work Health and Safety Act 2011 Chapter3, Part3.2,Division 8 , Work Health and Safety Regulation 2011 Managing the Risk of Hazardous Chemicals in the Workplace Code of Practice 2013 Labelling of Workplace Hazardous Chemicals Code of Practice 2011 Preparation of Safety Data Sheets for Hazardous Chemicals Code of Practice 2011 How to Manage Work Health and Safety Risks Code of Practice 2011
30 Health and safety	Construction	Work on construction sites where there is any movement of powered mobile plant	1. Plant interactions with public pedestrians and onsite workers 2. Plant interactions with vehicles and other plant 3. Interaction with services 4. Untrained persons operating mobile plant	1. Injury/ loss of life 2. Property damage	E-24	1. Project approved SWMS which cover the risks associated with plant interactions with public pedestrians and onsite workers, plant interactions with vehicles and other plant and interaction with services 2. Competent VOC'd operators for all plant onsite 3. Trained spotters are required for reversing plant (unless project specific risk assessment deems otherwise) 4. Project-specific VMP's; updated and communicated regularly with the workforce 5. Separation of people and plant shall be covered in project-specific Work Area Separation Plans or included in VMP's 6. Positive communications at all times between workers and plant operators,	H-14	Work Health and Safety Act 2011 Work Health and Safety Regulation 2011 Managing the Risks of Plant in the Workplace Code of Practice 2013 How to Manage Work Health and Safety Risks Code of Practice 2011 Managing Noise and Preventing Hearing Loss at Work Code of Practice 2011 Managing the Risk of Falls at Workplaces Code of Practice 2011 AS 2294.1-1997 Earth-moving machinery - Protective structures AS 2550.1-2002 Cranes - safe use set

29 Health and safety	Construction	Construction work on or adjacent to roadways or railways	1. Public interaction with project plant & workers	1. Injury/ loss of life 2. Property damage	E-24	1. Project approved SWMS 2. Projects to detail Entry and Exit points on site, site VMP displayed and explained to all personnel 3. Implementation of the TMP (including associated TGS, risk assessments and permits) 4. Wear Hi-Vis PPE as per site requirements and work in accordance to the requirements of the TMP 5. Use of signage/ barriers/ flagging/	H-14	Work Health and Safety Act 2011 Work Health and Safety Regulation 2011 Managing the Risks of Plant in the Workplace Code of Practice 2013 How to Manage Work Health and Safety Risks Code of Practice 2011 Traffic Management for Construction or Maintenance Work Code of Practice 2008 Manual of Uniform Traffic Control Devices Part 3 TCAWS Manual v4
28 Health and safety	Construction	Construction work involving precast concrete	1. Uncontrolled falling pre-cast elements	1. Injury/ loss of life/ 2. Property damage	E-24	1. Project approved SWMS 2. Riggers to ensure safe installation of chains and shall control precast loads at all times, tag lines are required.	H-14	Work Health and Safety Act 2011 Chapter 6 ,Part 6.4 Division 3Division 10, Work Health and Safety Regulation 2011 Concrete Pumping Code of Practice 2005 Formwork Code of Practice 2014 Managing the Risks of Plant in the Workplace Code of Practice 2013 Mobile Crane Code of Practice 2006 How to Manage Work Health and Safety Risks Code of Practice 2011 Hazardous Manual Tasks Code of Practice 2011 Managing the risk of Falls at Workplaces Code of Practice 2011 Scaffolding Code of Practice 2009 Mobile Crane Code of Practice 2006 Tower Crane Code of Practice 2006 Tilt-up and Pre-cast Code of Practice 2003 AS 2550.1-2002 Cranes - safe use AS/NZS 4576:1995 Guidelines for scaffolding Current Legislation AS 1891.4 - Harness
27 Health and safety	Construction	Construction work involving the use of explosives	1. Misfire, flying debris and damage to other assets	1. Injury/ loss of life/ 2. Property damage	E-24	1. Designed exclusion zones 2. Project approved SWMS 3. Blasting Work Procedures and Plan 4. Pre blast verification checklist 5. Client, Principal Contractor & Contractor approval before blasting	H-14	Work Health and Safety Act 2011 Chapter 14, Part 14.3, Work Health and Safety Regulation 2011 How to Manage Work Health and Safety Risks Code of Practice 2011 AS/NZS 2187.1-2006 Explosives Storage & Use Part 2: Use of Explosives MUTCD Part 3: Works on Roads
26 Health and safety	Construction	Construction work on or near underground services or structures	1. Underground services or structures	1. Contact with underground services 2. Damage to underground services 3. Damage to underground structures	E-24	1. Project approved SWMS for work around services 2. All operators of mobile plant shall be deemed competent (RII and VOC) 3. Excavation permit to be obtained and include the identification and location of services; the management of works adjacent to services; and any necessary liaison with the asset owner. 4. Pot hole around services, no mechanical excavations within 500mm of identified services.	H-14	Electrical Safety Act 2002 Electrical Safety Regulation 2013 Work Health and Safety Act 2011 Chapter 4,Part 4.3,Division 3, Work Health and Safety Regulation 2011 Excavation Work Code of Practice 2013 Electrical Safety Code of Practice 2010 - Working near exposed live parts AS/NZS 3012:2003 Electrical installations - Construction and demolition sites How to Manage Work Health and Safety Risks Code of Practice 2011 Hazardous Manual Tasks Code of Practice

25 Health and safety	Construction	Construction work on or near overhead services	1. Overhead services	1. Contact with overhead services 2. Damage to overhead services 3. Personal injury	E-24	1. Exclusion zones setout and authorised Electrical Safety Observer in place (M320 trained) 2. Powerline above, 'Goal Post' Flagging or Yellow people to be in place where powerlines are located on-site, heights indicated of service height 3. Project approved SWMS that cover all mandatory requirements 4. Competent plant operators (RII and VOC) 5. If >3m from overhead service trained spotters to be used 6. At all work sites, where there is a risk of plant coming into contact with power poles, a 1.5m exclusion zone shall be set up to protect the pole at that worksite location. 7. Yellow flashing lights are to be located in	H-14	Electrical Safety Act 2002 Electrical Safety Regulation 2013 Work Health and Safety Act 2011 Chapter 4, Part 4.3 Division 3, Work Health and Safety Regulation 2011 Electrical Safety Code of Practice 2010 - Working near exposed live parts AS/NZS 3012:2003 Electrical installations - Construction and demolition sites AS/NZS 3760 In-service safety inspection and testing of electrical equipment How to Manage Work Health and Safety Risks Code of Practice 2011
24 Health and safety	Construction	Construction work on or near pressurised gas distribution mains and consumer piping	1. Contact with service 2. Gas leak	1. Injury/ loss of life/ 2. Property damage	E-24	1. Obtain as constructed drawings, DBYD, MCI Excavation permit 2. Obtain safety information from service owner 3. Pot hole around services, no mechanical excavations in proximity of identified services 4. Project approved SWMS 5. PTRAs (Pre task Risk Assessments) 6. Use of Vacuum Excavators by VOC'd	H-14	Work Health and Safety Act 2011 Chapter 14, Part 14.7, Work Health and Safety Regulation 2011 How to Manage Work Health and Safety Risks Code of Practice 2011 Managing the Risks of Plant in the Workplace Code of Practice 2013

23 Health and safety	Construction	Construction work involving excavations >1.5m	1. Work conducted in an excavation >1.5m 2. Work conducted near an excavation >1.5m	1. Injury/ loss of life 2. Property damage 3. The collapse of a trench, excavations/ engulfment 4. Contact with an underground service 5. Falls into an excavation	E-24	1. Project approved SWMS for all excavations >1.5m 2. All trenches and excavations >1.5m are required to be benched, battered, shored or signed off a suitable by a Geotechnical Engineer by inspection and report. 3. Excavation Permit and current DBYD in place 4. Mobile plant and stockpiles to be outside of the trench zone of influence 5. Exclusion zones in place where required to prevent unauthorised access 6. Deep Excavation signage to be in place for all excavations >1.5m, barricading around all open excavations 7. Daily excavation/ trench inspections from the Supervisor to ensure trench remains stable and control measures are effective 8. Excavate by hand when in close proximity to services 9. Pothole around services, no mechanical excavations in the proximity of identified services. Use of Vac Trucks by VOC'd operator 10. Project Emergency Response plan in place and shall cover emergency procedures for excavation and trenching emergencies. 11. Maintain safe access and egress to the excavation 12. Prior to excavation work commencing,	H-14	Work Health and Safety Act 2011 Chapter 6 Construction Work, Part 6.3 Division 3 (Excavation Work) Work Health and Safety Regulation 2011 Excavation Work Code of Practice 2013 How to Manage Work Health and Safety Risks Code of Practice 2011 Managing the Risks of Plant in the Workplace Code of Practice 2013
22 Health and safety	Construction	Construction work involving excavation <1.5m	1. Collapse of trench, excavations/ Engulfment 2. Contact with an underground service	1. Injury/ loss of life/ 2. Property damage	E-24	1. Project approved SWMS 2. Benched, battered, shoring or Geotechnical Engineer inspection, sign off 3. Excavation Permit required for all excavations over 300mm 4. Plant and stockpiles shall be a suitable distance from open excavations and holes 5. PTRAs (Pre task Risk Assessments) 6. Exclusion zones in place where required, Excavation signage and barricading open excavations 7. Continuous excavation/ trench inspections from the Supervisor to ensure trench remains stable 8. Excavate by hand when in close proximity to services 9. Use of Vac Trucks by VOC'd operator 10. Pot hole around services, no	H-14	Work Health and Safety Act 2011 Chapter 6 Construction Work, Part 6.3 Division 3 (Excavation Work) Work Health and Safety Regulation 2011 Excavation Work Code of Practice 2013 How to Manage Work Health and Safety Risks Code of Practice 2011 Managing the Risks of Plant in the Workplace Code of Practice 2013

21 Health and safety	Construction	Construction work in/ or near a confined space	1. Contamination of air in a confined space. 2. Engulfment in a confined space	1. Injury/ loss of life	E-24	1. Confined Space competency required for all workers entering a Confined Space. 2. Confined Space permits and procedures. 3. Atmospheric monitoring prior/during to entry and ongoing as required by the permit. All monitoring equipment shall be fit for purpose, and have current calibration records and inspection tags, and inspected prior to use. 4. Project approved SWMS 5. Confined Space Entry permit, Rescue	H-14	Work Health and Safety Act 2011 Chapter 4, Part 4.3 Work Health and Safety Regulation 2011 AS/NZS 2865-2009 Confined Spaces How to Manage Work Health and Safety Risks Code of Practice 2011 Confine Spaces Code of Practice 2011 Hazardous Manual Task Code of Practice 2011
20 Health and safety	Construction	Construction work involving structural alterations that require temporary support to prevent collapse	1. Collapse of structure/ temporary works/ supports	1. Injury/ loss of life	E-24	1. Project approved SWMS 2. Temporary works to be RPEQ Engineer designed and approved. Competent personnel/ Supervision to install temporary works	H-14	Workplace Health and Safety Act 2011 Work Health and Safety Regulation 2011 Safe Design of Structures COP 2013
19 Health and safety	Construction	Construction work involving the disturbance or removal of asbestos	1. Workers being exposed to Asbestos Containing Materials	1. Chronic Illness	VH-21	1. Project approved SWMS 2. Licensed B class removalist for bonded ACM >10m2 3. Licensed A class removalist for friable ACM 4. PTA (Pre-Task Assessment) 5. Project Specific Asbestos Management Plan (AMP) (ENV-MP-04) 6. Asbestos Register (appendix to the AMP)	H-14	Work Health and Safety Act 2011, Chapter 8 Asbestos. Work Health and Safety Regulation 2011 How to Manage and Control Asbestos in the Workplace Code of Practice 2011 How to Safely remove Asbestos Code of Practice 2011 How to Manage Work Health and Safety Risks Code of Practice 2011 Hazardous Manual Tasks Code of Practice
18 Health and safety	Construction	Construction work involving demolition	1. Uncontrolled falling objects	1. Injury/ Damage to Plant and Assets	VH-21	1. Exclusion zones, signage & barricading to be in place at all times 2. Demolition /Removal works to be approved, and conducted by licensed person 3. Project approved SWMS 4. No one under suspended loads at any times 5. Competent plant operators, VOC'd, approved plant only to be used 6. PTA (Pre Task Assessment) 7. Demolition Work Plan (Plan to manage the demolition works)	H-14	Work Health and Safety Act 2011, Part 4.6 Demolition Work Work Health and Safety Regulation 2011 Managing Noise and Preventing Hearing Loss at Work Code of Practice 2011 How to Manage Work Health and Safety Risks Code of Practice 2011 Managing the Risk of Falls at Workplaces Code of Practice 2011 Hazardous Manual Tasks Code of Practice 2011 Demolition Work Code Of Practice 2013 AS 2601-2001 The demolition of structures AS/NZS 3012:2003 Electrical installations -
17 Health and safety	Construction	Construction activities involving working at height <2m	1. Workers falling onto a hard surface, onto star pickets/ reo or into open holes onsite	1. Injury or Impalement	VH-17	1. Exclusion zones, signage & barricading around identified hazards 2. PTRR (Pre Task Risk Assessment) 3. Trained and competent workers, all personnel to have completed the site specific induction 4. All open penetrations or holes to be barricaded to prevent access 6. Protective caps on reo bars and star pickets 7. All delivery trucks to have edge protection	M-9	Work Health and Safety Act 2011 Chapter 4, Part 4.4 Falls), Chapter 6, Part 6.3, Division 4, Subdivision 2 (Falls) and Subdivision 4 (Scaffolding) Work Health and Safety Regulation 2011 Scaffolding Code of Practice 2009 How to Manage Work Health and Safety Risks Code of Practice 2011 Managing the Risk of Falls at Workplaces Code of Practice 2011 AS/NZS 1576.1:2010 Scaffolding - General requirements AS/NZS 1891.4:2009 Industrial fall-arrest systems and devices AS/NZS 4576:1995 Guidelines for scaffolding

16 Health and safety	Construction	Construction activities involving work at height >2m	1. Working at a height >2m	1. Worker falling from a height >2m causing bodily harm or death	E-24	1. Project approved SWMS and Work at Height Permit 2. Edge protection to be installed as per relevant specification and standards 3. Trained and competent workers to operate EWP's (for EWP <11m - Yellow Card and VOC, for EWP's >11mtrs - HRWL and VOC) 4. Any persons working at height must be trained in RIIWHS204D Work Safely at Heights. 5. Emergency Response Plan to be completed and trained with workers for all work at height 6. Project Specific Emergency Plan to be understood and followed by all 7. Spotters shall be in place with positive communication and trained in the EWP Ground controls, and Rescue Procedure.	H-14	Work Health and Safety Act 2011 Chapter 4. Part 4.4 (Falls) Work Health and Safety Regulation 2011 Scaffolding Code of Practice 2009 Formwork Code of Practice 2016 How to Manage Work Health and Safety Risks Code of Practice 2011 Managing the Risk of Falls at Workplaces Code of Practice 2011 AS/NZS 1576.1:2010 Scaffolding - General requirements AS/NZS 1891.4:2009 Industrial fall-arrest systems and devices AS/NZS 4576:1995 Guidelines for scaffolding AS 1891.4 - Harness Inspections
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