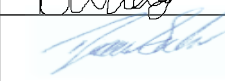


SAFE WORK METHOD STATEMENT

Working Around Powered Mobile Plant & Equipment

SWMS Title:	Working in an area where there is movement of Powered Mobile Plant	Department:	Infrastructure	Revision No.	1
Project Name:	Transport Infrastructure Development Scheme Pave & Seal	Location	Arcadia Valley Rd, Arcadia Valley		
Prepared By:	Brenton Judge	Position:	Coordinator Road Construction	Signed:	 Date: 14/01/2024
Approved By:	Dean Suhr	Position:	Safety Mentor	Signed:	 Date: 14/01/2024

Additional hazards and controls (determined through "Take 5") must be added to this SWMS. Controls not required should have a line drawn through them. All changes must be dated and initialled. All persons involved in the task must have been **consulted** in the development and/or amendment or revision of this SWMS. Control measures will be **monitored** by day to day supervisor observation and formal workplace inspection activities. This SWMS and control measures are to be **reviewed** whenever there is a change to the job activities or conditions, following an incident, when monitoring shows controls are not effective, following a request for review by a relevant health and safety representative and at a minimum, annually.

Permits required

☐ Working at Heights
 ☐ Confined Space
 ☐ Excavation & Trenching
 ☐ Asbestos

PPE Requirements

☒	☒	☐	☐	☐	☐	☐	☐	☐	☐
									

Additional PPE Requirements: (Eyewear Tinted/Clear – task specific), Gloves (task specific), Hearing protection (task specific), Height safety (task specific), Chaps (task specific) Gumboots (task specific as per local risk assessment)

Legislative Reference/s: Traffic management for construction or maintenance work COP 2008, Managing the risk of plant in the workplace COP 2021,

CHRC SMS Reference/s: Procedures: Signage and Barricading, Plant and Equipment Requirements, Excavation Activities SWMS, Lifting Operations Procedure



CHRC Take 5 – Authority to Work process must be used in conjunction with this SWMS.

Controls must be selected according to the Hierarchy of Control to be as low as reasonably practicable (ALARP)

NOTE – To ensure all specific hazards for the job are identified and suitable controls put in place, WHS risk registers must be reviewed

RISK MATRIX AND CONSEQUENCE SEVERITY TABLE

RISK MATRIX					
LIKELIHOOD	CONSEQUENCE				
	1 Insignificant	2 Minor	3 Moderate	4 Major	5 Catastrophic
5. <u>ALMOST CERTAIN</u> (>95%) The event is expected to occur in most circumstances	Medium 5	Medium 10	High 15	Extreme 20	Extreme 25
4. <u>LIKELY</u> (66-95%) The event will probably occur in most circumstances	Medium 4	Medium 8	High 12	Extreme 16	Extreme 20
3. <u>OCCASSIONAL</u> (36-65%) The event might occur at some time	Low 3	Medium 6	Medium 9	High 12	Extreme 15
2. <u>UNLIKELY</u> (5-35%) The event could occur at some time	Low 2	Low 4	Medium 6	Medium 8	High 10
1. <u>RARE</u> (<5%) The event may occur only in exceptional circumstances	Low 1	Low 2	Low 3	Medium 4	Medium 5

Consequences				Hierarchy of Control	
Number Assigned	People	Plant / Equipment	Environment		
1. <u>Insignificant</u>	No medical treatment	Slight Damage (< \$1000)	Slight effect (i.e. minor breach in site-based control)	HIGHEST Level 1 Eliminate the hazards Level 2 Substitute the hazard with something safer Isolate the hazard from people Reduce the risks through engineering controls Level 3 Reduce exposure to the hazard using administrative actions Use personal protective equipment LOWEST	MOST Reliability of control measures LEAST
2. <u>Minor</u>	First Aid Treatment	Component level replacement /repair (\$1000 - \$5000)	Minor on-site contamination (i.e. minor spill contained in bund)		
3. <u>Moderate</u>	Medical Treatment Injury	Equipment level replacement /repair (\$5000 - \$10,000)	Major on-site contamination with potential for off-site contamination (i.e. major spill but localised)		
4. <u>Major</u>	Serious injury / Fatality	Multiple equipment replacements (Incl. Heavy Plant) (\$10,000 - \$50,000)	Minor off - Site contamination (i.e. spill/airborne contaminants have migrated off site in low concentration)		
5. <u>Significant</u>	Multiple Fatalities	Massive widespread equipment damage (i.e. plant / equipment write-off) (\$50,000 +)	Major off-site contamination (i.e. spill/airborne contaminants have migrated off site in high concentration)		

Task/Activity Sequence Steps	Quality, Health, Safety & Environmental Hazards/Risks	Control Measures	Residual Risk			Responsibility to Implement Controls
			L	C	R	
PRESTART						
Labour Selection	Inexperienced personnel	- All workers to be adequately trained, competent or supervised for the task before commencing on site. - Powered mobile plant operators must hold the relevant licence and verification of competency (VOC). - Authorised person available to act as spotter when working around power lines. - Only inducted personnel are permitted to operate vehicles/machinery on site (except for delivery drivers)				Supervisor
Select Plant/Equipment for Task	Plant/equipment used for task not suitable Lifting system collapse (loss of hydraulic pressure) On site plant/equipment breakdown	- Selection of appropriate plant/equipment for task (size, weight, reach, capacity, ROPS, FOPS.) - Machines have been deemed compliant as per CHRC Plant & Equipment procedures - Plant and equipment to be used in accordance with manufacturers recommendations/specifications. - Earthmoving equipment used in crane mode (where the rated capacity exceeds 1 tonne) must be fitted with burst protection on critical hydraulic systems. - Warning and safety devices to be fitted (minimum – horn and flashing light with reverse alarm if operating around pedestrians) - Pre-Start check of plant to be completed before operating. - Defective plant/equipment to be tagged “out of service” and reported. - Servicing/maintenance of plant and equipment as per manufacturer’s specifications.				Supervisor Plant Operator

Identification of Essential Services	Contact with essential services	▪ If Plant is used to dig or excavate, refer fully to <i>Excavation and Trenching Procedure and Excavation Activities SWMS</i> ▪ Location of all services to be established as part of the Authority to Work process. (e.g. Dial before you dig, 'As Built' plans). If powerlines are too low, report to Ergon and completed safety advice request form prior to the commencement of work. ▪ If overhead powerlines are present clearance to be determined prior to commencement of work and if it is possible for plant to be within exclusion zone of power lines, refer fully to <i>Working on or Near Power Lines SWMS</i>				Supervisor

PREPARATION

Work Area	Mobilisation and Demobilisation (Unloading and loading plant & equipment) Vehicle interaction with pedestrians or other vehicles Contact with overhead services Personnel un-aware of activities taking place Personnel unfamiliar with site requirements Unstable ground conditions (water, mud soil type/conditions, voids)	▪ Site familiarisation to be conducted for all personnel. ▪ Supervisor to ensure Team Take 5 completed and signed off by all personnel working on site. ▪ Ensure communication with other work crews and stakeholders in area. ▪ Separate work areas for other activities if practical. ▪ Traffic Management Plans and traffic controls (if required) ▪ Designated pedestrian routes (where required). ▪ Ground condition and slope must be assessed prior, to ensure loading/unloading is performed <u>on level ground only</u> ▪ Be aware of loading / unloading of plant – less stability when steel on steel (Dynapac roller, pad foot roller etc.) Use rubber matting to enhance stability / traction ▪ Segregated parking areas to be established. ▪ Establish exclusion zones around loading/unloading and plant operating areas. ▪ Before unloading, check load upon arrival for any load shift or instability. ▪ Transport driver shall be responsible for tie down of load and removing tie downs, straps etc. ▪ Always maintain visual contact between plant operators and other personnel. Spotters to be used where required for reversing operations, tight areas and unloading/loading of plant etc. ▪ Avoid unloading/loading plant under power lines. ▪ Other control form Take 5				Supervisor Plant operators All personnel working in exposed areas Transport driver Spotter
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OPERATION OF PLANT OR EQUIPMENT

General Operation	Falling Objects Pedestrian / vehicle interaction Noise / Dust	▪ If plant is used as a crane refer to <i>Lifting Operations Procedure</i> ▪ Plant to be used only for the purpose for which it was intended. ▪ Plant to operate within gradient specifications and on within machine's capabilities on uneven ground ▪ Comply with speed limits ▪ Personnel not to enter the swing zone of equipment without positive communications with operator (preferably radio) ▪ Authorised spotters for working near powerlines. Spotter must have competency for the machine that they are spotting for. ▪ Spotter and personnel to stay on the "on" side of machinery where possible, to be visible to the operator. ▪ Spotters must always have direct lines of communication with operators. ▪ Spotters to be used for: - vehicles entering / leaving work site(s), where possible. - Where plant is reversing if operator does not have clear visibility ▪ Mobile phones or personal entertainment devices (PEDS) are not to be used while working around mobile plant. (Move to a safe area to use). ▪ Dust suppression (e.g. water cart) ▪ PPE – high visibility clothing for all in operational areas. ▪ PPE – hearing protection and respiratory protection as required for noise and dust. ▪ PPE – Task specific for the job ▪ Other control form Take 5				Supervisor Plant operators All personnel working in exposed areas
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MAINTENANCE AND REFUELING PLANT OR EQUIPMENT

Servicing and Refuelling	Hot fluids and machine parts Crush or entanglement Machinery start up, uncontrolled movement Slips, trips, and falls Fires Spills and exposure to Hazardous Substances	▪ Machine shut down with all hydraulic equipment lowered. ▪ Park machine in a fundamentally stable state (e.g. park brake, 'V' drain or wheel chocks) on level surface. ▪ De-energise, depressurise all required energies. ▪ Follow CHRC Isolation and tagging procedures (lock slew and articulation points, support engine covers). ▪ CHRC authorised fitter to perform any task other than fluid top ups and minor setup adjustments if authorised by Workshop. ▪ Use manufacturers rails and footsteps and maintain 3 points of contact. ▪ PPE – gloves and eye protection ▪ Designated refuelling location ▪ Safety Data Sheets readily available ▪ Spill kits readily available. ▪ Fire extinguisher (class ABE) on vehicle or at site within 10m of refuelling location ▪ Refuel portable containers on the ground ▪ Other control form Take 5				Plant operators Service operators
PACK UP / LEAVE SITE						
End of Shift	Unauthorised use of plant and equipment Thief / vandalism Poor housekeeping Public Safety	▪ Secure plant and equipment at the end of each day. ▪ Remove keys and activate isolation switches (if applicable). ▪ Lower hydraulic equipment prior to switching off plant. ▪ Park plant / equipment where it does not obstruct access and cannot roll away. Use vehicle chocks if supplied with equipment. ▪ Inspect for damaged equipment – Tag out (Out of Service) and report and problems. ▪ Remove all waste from site. ▪ Servicing of plant. ▪ Other control form Take 5				Supervisor Plant operators

Emergency Response	Failing to have procedures in place in the case of an emergency (Rollover. Collapse, Impact with vehicle or person, Contact with energised source etc.)	▪ CHRC Emergency Response Procedure to be followed. ▪ “000” to be called when emergency services required. ▪ High Risk Rescue plans are to be developed for tasks deemed high risk. ▪ Confirm effective communications means for all work groups.				Supervisor Plant operators All personnel working in exposed areas
		▪				
		▪				
		▪				

SWMS Sign on

We, the undersigned, confirm that we were consulted in the development and/or review of this safe work method statement and have been explained its contents. We also confirm that we are qualified to carry out the works identified above. We also clearly understand that the controls identified in this SWMS must be applied as documented, otherwise work is to cease immediately.

Name	Position	Signature	Date

REVISION STATUS						
Issue/Rev	Date	Revision Description	By	Checked	Approved	Signature
Methods of monitoring implemented risk control:		☒ Audits / Inspections		☒ Incident Review		☒ Annual Review