Mobile Plant Risk Assessment

WATER CART		**Location: Direk**
Asset Number: PM30		**Work Area: Yard**
Serial/Rego Number: XS56AY		**Assessors: Aaron Walter**
Make / Model Number: **MACK 15000lt WATER TRUCK**		**Date of assessment: 20/01/2025**
Applicable legislation: South Australian Work Health & Safety Regulations 2012, Chapter 5 – Plant & Structures		**Reviewed by: AARON**
Certification of operator required: HR Licence		**Date of review: 20/01/2026**

Description of Use:	**WATERING THE GROUND, CARTING WATER**

RISK RATING TABLES

Consequence Levels

Consequences	Safety	Quality / Productivity / Performance	Financial	Environment
Catastrophic	Fatality & Prosecution	Audit non-conformance, multiple complaints, Job to be returned / repeated	$500,000	Outside, off site - EPA improvement note (**Significant Aspect**)
Worrying	LTI (serious or permanent injury) & Regulator PIN	Audit observation, job rework or Customer non-conformance / Complaint	$100,000	Outside, off site - no regulator action (**Significant Aspect**)
Concern	MTI (casualty treatment)	Found in-house and quarantined (sort)	$10,000	Contained on premises, outside
Not Significant	First Aid Treatment (or Not Relevant)	Found In-house and immediately addressed (or Not Relevant)	$1,000	Contained inside business/buildings (or Not Relevant)

RISK CALCULATOR

	How likely is it to occur?			
How severe could the Consequences be?	**Very likely** Could happen any time	**Likely** Could happen sometime	**Unlikely** Could happen but very rarely	**Very unlikely** Could happen, but probably never will
Catastrophic	**1 (H)**	**1 (H)**	**1 (H)**	**2 (M)**
Worrying	**1 (H)**	**1 (H)**	**2 (M)**	**2 (M)**
Concern	**1 (H)**	**2 (M)**	**2 (M)**	**3 (L)**
Not Significant	**2 (M)**	**2 (M)**	**3(L)**	**3 (L)**

RISK CONTROL (**Removing the hazard or reducing the risk)**
The WHS Regulations (Regulation 36) require us to follow the Hierarchy of Control measures. Elimination is the first choice in controlling hazards. Where elimination is not practicable, substitution, isolation and engineering controls should be considered next. Administrative controls and personal protective equipment should only be used when other control measures have been considered but are not practicable.

Hazard Type	Yes / No	Hazard Description	C	L	R	Control Methods in Place	Yes / No	NA	Comments / Recommended Improvements
ENTANGLEMENT Can anyone's, hair, clothing, gloves, necktie, jewellery, cleaning brushes, rags or other materials become entangled with moving parts of the plant, or materials in motion?	**Y**	Body parts caught in moving parts during operation, cleaning and inspections	**W**	**U**	**2(M)**	Manufacturers Warning Decals	**Y**		JHA & Safe Work Procedures to be in place Training of operators Regular Audits/Inspections
						Readable	**Y**		
						Guards installed	**Y**		
						Warning Decals for Personal (i.e .loose clothing etc)	**Y**		
						Engine covers fitted	**Y**		
CRUSHING Can a person be crushed due to: ◆material falling from the plant?	**N**					Attachments	**Y**		Small grader blade attachment
						Moving Blade/Bucket	Y		
						Neutral start switch fitted	**Y**		Traffic Management controls in place

Hazard Type	Yes / No	Hazard Description	C	L	R	Control Methods in Place	Yes / No	NA	Comments / Recommended Improvements
◆uncontrolled or unexpected movement of the plant or its load?	**Y**	Pedestrians or bystanders may be crushed	**Cat**	**VU**	**2(M)**	Reversing/travel alarm	**Y**		Decals to be in place Warning devices to be fitted Operating procedures to be in place Operator training to be in place Regular audits/inspections to be implemented
						Crush zone warning decal	**Y**		
						Amber Flashing Beacon	**Y**		
						Pedals-Non slip surface	**Y**		
						Controls have appropriate knobs	**Y**		
						Reversing Light		**N/A**	
						Rear view mirror	**Y**		
						Rear Swing Warning Decal or Swing Lights fitted	**Y**		
						Brake Lights (if fitted)		N/A	
						Machine may suddenly reverse warning decal fitted		N/A	
◆lack of capacity for the plant to be slowed, stopped or immobilised?	**Y**	Refer above	**Cat**	**VU**	**2(M)**	Service brake operational	**Y**		
						Parking brake operational	**Y**		
						Battery Isolator fitted	**Y**		
◆the plant tipping or rolling over?	**Y**	Operator crushed during machine rollover	**Cat**	**VU**	**2(M)**	Rops decal fitted to rops	**Y**		
						Rops approved structure	Y		
						Fops approved structure		**N/A**	
						Tops/Cops approved structure	Y		
						Manufacturers designed cab	**Y**		
						Safe-T-Cab approved structure		**N/A**	
	Y		**W**	**U**	**2(M)**	Safety bar props fitted	**Y**		

Hazard Type	Yes / No	Hazard Description	C	L	R	Control Methods in Place	Yes / No	NA	Comments / Recommended Improvements
◆parts of the plant collapsing?		Operator crushed while conducting inspections and while cleaning				Use safety bar when working under 'raised attachment' decal		**N/A**	JHA & SOP in place Operator training
◆coming into contact with moving parts of the plant during testing, inspection, operation, maintenance, cleaning or repair?	**Y**	Refer above	**W**	**U**	**2(M)**	Guards	**Y**		
						Warning decals	**Y**		
◆being thrown off or under the plant?	**Y**	Refer above (roll-over)	**Cat**	**VU**	**2 (M)**	Seat belt fitted	**Y**		
						Door fitted	Y		
						Seat belt must be worn, warning decal fitted	**Y**		
						Operator Cabin fully enclosed	Y		
						Operator Cabin open		N/A	
CUT/STAB/PUNCTURE Can anyone be cut, stabbed or punctured due to: ◆coming into contact with sharp or flying objects?	**Y**		Con	U	2 (M)	Guarding No visible signs of sharp objects	**Y**		
◆coming into contact with moving parts of the plant during testing, inspection, operation, maintenance, cleaning or repair of the plant?									
◆the plant, parts of the plant or work pieces disintegrating?									
◆work pieces being ejected?									
◆the mobility of the plant?									
◆uncontrolled or unexpected movement of the plant?									
SHEARING Can anyone's body parts be sheared between any two parts of the plant, or between a part of the plant and a work piece or structure?	**Y**	Pedestrians or Bystanders caught between machine and fixed objects	**W**	**VU**	**2(M)**				Traffic Mgmt. plan in place JHA & SOP to be in place Operator training

Hazard Type	Yes / No	Hazard Description	C	L	R	Control Methods in Place	Yes / No	NA	Comments / Recommended Improvements
FRICTION Can anyone be burnt due to contact with moving parts or surfaces of the plant, or material handled by the plant?	**N**								
STRIKING Can anyone be struck by moving objects due to: ◆uncontrolled or unexpected movement of the plant?	**Y**	Pedestrians or bystanders may be struck by machine	**C**	**U**	**2(M)**		Y		Traffic management controls in place.
◆the plant, parts of the plant or work pieces disintegrating?									
◆work pieces being ejected?						Guarding	**Y**		
						Keep clear warning decals	**Y**		
						Quick hitch independent latching device	Y		
						Keeper pins correct type	**Y**		
◆mobility of the plant?						Glass safe operational condition	Y		
						Reversing / travel alarm	**Y**		
						Amber flashing beacon	**Y**		
						Reversing decal fitted	**N**		
						Brake lights	**Y**		
						Warning horn	**Y**		
						Indicators		**NA**	
HIGH PRESSURE FLUID Can anyone come into contact with fluids or gas under high pressure, due to plant failure or misuse of the plant?	**Y**	Hydraulic failure	**C**	**U**	**2(M)**	No return valves fitted	**Y**		Regular maintenance and inspection program in place
						Leakage	**N**		
						All pipe clamps fitted	**Y**		
						High pressure warning decals	**N**		

Hazard Type	Yes / No	Hazard Description	C	L	R	Control Methods in Place	Yes / No	NA	Comments / Recommended Improvements
ELECTRICAL Can anyone be injured by electrical shock or burn due to: ◆the plant contacting live electrical conductors?	**N**	Contacting overhead power lines or other structures overhead				Electrical wire / overhead wires / obstructions decals fitted	**Y**		JHA & SOP to be in place
◆the plant working in close proximity to electrical conductors?									
◆overload of electrical circuits?									
◆damaged or poorly maintained electrical leads and cables?									
◆damaged electrical switches?									
◆water near electrical equipment?									
◆lack of isolation procedures?									
EXPLOSION Can anyone be injured by explosion of gasses, vapours, liquids, dusts or other substances, triggered by the operation of the plant or by material handled by the plant?	**N**								
SLIP/TRIP/FALL Can anyone using the plant, or in the vicinity of the plant, slip, trip or fall due to: ◆uneven or slippery work surfaces?	**Y**	Operator slips or falls while entering or exiting equipment	**C**	**L**	**2(M)**	Non slip surface	**Y**		
◆poor housekeeping, eg. swarf in the vicinity of the plant, spillage not cleaned up?									
◆obstacles being placed in the vicinity of the plant?									
◆lack of a proper work platform?						Proper work platform	**Y**		
◆lack of proper stairs or ladders?						Proper stairs or ladders	**Y**		
◆lack of guardrails or suitable edge protection?						Guardrails or suitable edge protection		N/A	
◆unprotected holes, penetrations or gaps?						Handrails / hand-holds provided	Y		

Hazard Type	Yes / No	Hazard Description	C	L	R	Control Methods in Place	Yes / No	NA	Comments / Recommended Improvements
◆poor floor or walking surfaces, such as the lack of a slip resistant surface?						Non slip surface	**Y**		
◆steep walking surfaces?									
◆collapse of the supporting structure?									
ERGONOMIC Can anyone be injured due to: ◆poorly designed seating?	**Y**	Prolonged use of equipment with operator in static seating position	C	U	2 (M)	Seat in safe usable condition	**Y**		
◆Constrained body effort						Operational control levers & pedals in operator reach	Y		
						Seat adjustment controls operational	**Y**		
						Operators controls identified	**Y**		
SUFFOCATION Can anyone be suffocated due to lack of oxygen or atmospheric contamination, refer to the Confined Spaces Regulations?	N					All labels are readable			
						Engine fumes not excessive at high idle			
TEMPERTURE / FIRE Can anyone come into contact with objects at high temperature?	Y	Contact with hot engine parts or exhaust	C	U	2 (M)	Door/window seals maintained	Y		
						High mounted exhaust not easily accessible	Y		
						Exhaust guard fitted	**Y**		
						Fire protection supplied	**Y**		
						Hot surface warning decal	**Y**		
THERMAL COMFORT Can anyone suffer ill health due to extreme temperature or change of weather?	Y	Working in hot/cold weather	C	U	2 (M)	Air conditioning	Y		
						Ventilation	Y		
NOISE	Y		C	U		Enclosed cabin	Y		

Hazard Type	Yes / No	Hazard Description	C	L	R	Control Methods in Place	Yes / No	NA	Comments / Recommended Improvements
Can anyone suffer ill health or hearing loss due to exposure to high noise levels ?		Prolonged exposure to engine noise			2 (M)	Hearing protection supplied		**NA**	
DOCUMENTATION	Y					SWL / WLL marked on boom	**N**		
						Load capacity chart fitted	**N**		
						Lifting points approved	**N**		
						Operator's Manual	**Y**		
						JSA/SWMS/SOP available	**N**		
						Plant daily checklist in place	**Y**		
						Maintenance records up to date	**Y**		

Photos and Additional Comments