

STATIC Plant Hazard & Risk Assessment



Assessment Number: BC02	Assessment Date: 16/2/2023
Plant Type: Floor Scraper (self propelled) Plant Make: Beaver Plant Model: 300	Assessment Facilitated by: Leigh Evans (Admin/Accounts Manager)
Asset/Fleet/Rego No: TILELIFT Plant Serial No.	Assessment Participants: Chris Feldbauer (Director)
Plant Owner Name: Northern Hire Group	Follow up Assessment (See below for Revision No.)
Site/Job Specific Assessment Required? YES When completing the checklist, consider the hazards that may affect: <ul style="list-style-type: none"> • plant operators • anyone working, or in the vicinity of, the plant • others who could be affected, such as visitors, contractors, etc. 	

Is the plant designed to perform the task? Yes ~~No~~

Has the plant been modified from the original condition? ~~Yes~~ No

Is the plant in good working condition and free of weeds & mud? Yes ~~No~~

All identified action items closed out/addressed (plant checks)? Yes ~~No~~

Is the plant safe to operate? (On completion of PHA and action closure) Yes ~~No~~

Date: 16/2/23

Signature:

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This document has been developed as a guide to identify hazards on plant only.

This Risk Assessment has been conducted to the guidelines as detailed in the Worksafe booklet "Plant Hazard Checklist"

Workplace hazards have not been identified.

Job safety analysis (J.S.A) - Safe Work Method Statement (SWMS) is required to identify workplace hazards.

Operators must take into account Job Safety Analysis when operating mobile plant.

This assessment is conducted under a static condition as per Occupational Health & Safety Regulations Victoria 2017. A site specific assessment should be conducted at each change of location. Refer to Plant Regulations/National Standards for Plant (NOHSC).

Action and Approval Scheme

These suggested timings and tolerance levels in the Action Table will be overridden by specific policies of the company that either dictate shorter timeframes for corrective action or zero tolerance. For example, the company has a zero tolerance policy for Safety and Environmental risks.

The decision to tolerate a risk or capture a opportunity should be based on a consideration of:

- Whether the risk / opportunity is being controlled to a level that is reasonably achievable;
- Whether it would be cost-effective to further control risk or capture the opportunity;
- Whether the user wishes to tolerate risks / opportunities of that type

Hazard Risk Assessment					
	A	B	C	D	E
1	H	H	H	M	M
2	H	H	M	M	L
3	H	M	M	L	L
4	M	M	L	L	L
5	M	L	L	L	L

H High Risk INTOLERABLE (Significant & Urgent Action(s) required - Immediate Action)
M Medium Risk (Reduce risk to ALARP - As Low As Reasonably Practicable)
L Low Risk -Tolerable (monitor and manage risk)

Likelihood of Occurrence	Severity of Result
1. Expected to occur (once per week)	A. Fatality
2. Common (once per month)	B. Permanent Disability
3. Rarely (once in < 20 years)	C. Lost Time Injury (LTI)
5. Highly unlikely (once in > 20 years)	D. Medical Treatment/Damage
	E. First Aid Injury

Disclaimer:

This Mobile Plant Hazard & Risk Assessment does not eliminate the Owner/Operator responsibility to maintain the Mobile Plant as per OH & S Regulations Victoria 2017/National Standards for Plant (NOHSC).

This assessment provides information that is based on an inspection that was made on the date noted on the assessment cover sheet. If any addition, alteration or modification has been made to this mobile item plant subsequent to that date, it may not confirm to a satisfactory level of acceptance.

All hazards identified in this document must be rectified within 21 days of date listed on this form.

If faults are not rectified in 21 days, this document becomes null and void.

I acknowledge receipt of the complete Assessment for the Mobile Plant item detailed on the cover sheet.

Supervisor/Operator Name:

Supervisor/Operator Signature:.....

Date: / /

Further information

Contact the WorkSafe Victoria Advisory Service on 1800 136 089 or go to worksafe.vic.gov.au to download:

- Occupational Health and Safety Act 2004
- Occupational Health and Safety Regulations 2017
- Plant Compliance Code
- Hazardous Manual Handling Compliance Code
- Noise Compliance Code
- Hazardous Substances Compliance Code
- Code of Practice for Storage & Handling of Dangerous Goods

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Potential Hazards	Hazard			Describe Hazard	Controls	Current Risk Level	New or Additional Controls Required on Plant	Final Risk Level	New or Additional Controls Action By: (Name and Date)	Action Verified as Complete: (Name and Date)
	Y	N	N/A							
<p>1. Are there any specific warnings or conditions (manufacturers or other) relating to potential hazards from the operation of the item of plant?</p> <ul style="list-style-type: none"> Refer to technical or operating manuals, SOPs, safe use instructions List any relevant safety warning hazards & controls 	Y			Injury to persons or damage to property due to incorrect usage or failure to follow safety instructions	Refer to Safety Instructions & Operator Manual	M				
<p>2. Are there any COMMUNICATION requirements in relation to the safe operation of the plant?</p> <ul style="list-style-type: none"> Active signalling processes. Point to point communications. Whistle Spotter (with/without whistles) Flag signalling Labels and signage 		N								
<p>3. Can anyone be ENTANGLED in the plant?</p> <ul style="list-style-type: none"> Hair or other body parts caught in moving parts PPE caught in moving parts Isolation devices Warning decals Guarding Rotating parts Emergency stops 	Y			Injury from contact with moving parts	Refer to Safety Instructions & Operator Manual Keep hair, jewellery, loose clothing and body parts away from moving parts	M				

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<p>4. Can anyone be CRUSHED or TRAPPED? (e.g. through unexpected movement, lack of capability for plant or equipment to be slowed, stopped or immobilised, plant tipping or rolling, being thrown from plant)</p> <ul style="list-style-type: none"> ▪ Emergency stop (E Stop) ▪ Service or parking brake ▪ Battery isolator ▪ ROPs/FOPs ▪ Being crushed between moving parts ▪ Unexpected movement ▪ Neutral Start ▪ Reversing/travel alarm ▪ Warning horn ▪ Amber flashing beacon ▪ Rear swing warning lights ▪ Pedals non slip surface ▪ Appropriate controls ▪ Rear view mirror ▪ Seat belt ▪ Door inter locks ▪ Crush zone decals ▪ Guarding devices 	Y			<p>Injury from contact with equipment</p>	<p>Refer to Safety Instructions & Operator Manual prior to operation</p> <p>Establish an exclusion zone around work area.</p>	M				

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5. Can anyone be CUT, STABBED or PUNCTURED? <ul style="list-style-type: none"> ▪ Flying objects ▪ Moving parts ▪ Pinch points ▪ Sharp edges ▪ Isolation devices ▪ Warning decals ▪ Guarding 	Y			Injury from contact with moving parts	Refer to Safety Instructions & Operator Manual prior to operation Establish an exclusion zone around work area.	M				
6. Can SHEARING occur? <ul style="list-style-type: none"> ▪ Between two moving and rotating parts ▪ Between fixed and moving parts ▪ Warning decals ▪ Guarding 	Y			Injury from contact with moving parts	Refer to Safety Instructions & Operator Manual prior to operation Establish an exclusion zone around work area.	L				
7. Can ABRASION, TEARING or STRETCHING occur? <ul style="list-style-type: none"> ▪ Continuous contact with moving parts ▪ Warning decals ▪ Guarding ▪ Pulling/pushing 	Y			Injury from contact with moving parts	Refer to Safety Instructions & Operator Manual prior to operation Establish an exclusion zone around work area.	L				

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<p>8. Can anyone be STRUCK whilst operating the plant?</p> <ul style="list-style-type: none"> ▪ Plant disintegrating ▪ Mobility of plant travelling ▪ Reversing/travel alarm ▪ Amber flashing beacon ▪ Work pieces thrown out ▪ Moving parts ▪ Warning decals ▪ Guarding 		N		Injury from contact with equipment	<p>Refer to Safety Instructions & Operator Manual prior to operation</p> <p>Establish an exclusion zone around work area.</p>	L				
<p>9. Can a hazardous PRESSURE be produced?</p> <ul style="list-style-type: none"> ▪ Hydraulic hoses ▪ Radiator ▪ Come into contact with fluids under high pressure 		N								

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<p>10. Can an ELECTRICAL hazard be created?</p> <ul style="list-style-type: none"> ▪ Lack of insulation ▪ Contact with electrical conductors ▪ Poor earthing ▪ Water near equipment ▪ Lack of isolation ▪ Warning decals 	Y			Injury from contact with electrical components	<p>Refer to Safety Instructions & General Electrical Safety Guide</p> <p>Check power lead daily and do not use if signs of wear or damage detected.</p> <p>Ensure the power source is connected to an RCD (safety switch), and that the lead and connections are protected from moisture.</p> <p>Exclusion zones and PPE (goggles, mask, protective clothing) will be required and a site specific risk assessment must be undertaken to determine PPE and controls</p>	M				

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<p>11. Can an EXPLOSION or LOSS OF CONTENTS occur?</p> <ul style="list-style-type: none"> ▪ Gas emission, ▪ Dusts ▪ Vapours, lubricants ▪ Fuel tank ▪ Storage of haz chemicals/ DG's near plant ▪ Warning decals ▪ Ejection of workpiece ▪ Collapse or fragmentation 		N								
<p>12. Can anyone using or near the plant SLIP, TRIP or FALL?</p> <ul style="list-style-type: none"> ▪ Uneven surface ▪ Fall from a height ▪ Weather conditions ▪ Slippery surfaces 	Y			Injury from slip/fall	Site specific assessment required to determine controls	L				
<p>13. Are there ERGONOMIC - MANUAL HANDLING hazards associated with the plant?</p> <ul style="list-style-type: none"> ▪ Poor posture ▪ Repetitive or sustained movements ▪ Awkward positions ▪ Strained movements ▪ Poorly designed seating ▪ Access and egress ▪ Access for maintenance ▪ Routine inspections and adjustments 	Y			Injury from incorrect lifting/handling	<p>Refer to Safety Instructions & Operator Manual</p> <p>Due to it's weight, more than one person is required to lift/move.</p> <p>Do not overreach.</p> <p>Operator should take regular breaks to avoid muscle fatigue.</p>	L				

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14. Are there ERGONOMIC - OPERATING CONTROL hazards associated with the plant? <ul style="list-style-type: none"> ▪ Difficult to understand ▪ Inappropriate colouring ▪ Function not identified ▪ Inappropriate controls & switches ▪ Access and egress ▪ Labelling of controls and indicators ▪ Variation in operators ▪ Operation by two or more persons 		N								
15. Are there specific requirements for ISOLATION of energy sources? <ul style="list-style-type: none"> ▪ Hydraulic pressure ▪ Compressed gases ▪ Electrical feeds/capacitors ▪ Motive power systems ▪ Suspended loads ▪ Operation by two or more persons 		N								
16. Can unplanned LOSS of POWER create a hazard? <ul style="list-style-type: none"> ▪ Engine shutdown ▪ Loss of electrical supply ▪ Loss of steering systems ▪ Ability to apply brakes and stop ▪ Ability to lower suspended loads 		N								

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17. Can anyone be SUFFOCATED? <ul style="list-style-type: none"> ▪ Lack of oxygen ▪ Contaminated atmosphere ▪ Confined spaces ▪ Spaces where air flow is inadequate 		N								
18. Does operation of the plant cause extreme TEMPERATURE changes? <ul style="list-style-type: none"> ▪ Fire ▪ Burns through conduction ▪ Convection ▪ Cryogenic burns ▪ Operation in extreme heat or cold 	Y			Potential Hazard – Burns/ Scalds	Refer to Safety Instructions	L				
19. Can a FIRE occur? <ul style="list-style-type: none"> ▪ Friction ▪ Ingress of materials/fluids ▪ Build-up of materials/lubricants ▪ Fuels ▪ Fire extinguisher 		N								
20. Can certain WEATHER conditions create a hazard? <ul style="list-style-type: none"> ▪ Hypothermia / extreme cold ▪ Heat stroke / extreme hot ▪ Wet conditions ▪ Electrical storms ▪ Dirt & mud on roads at egress points 	Y			Potential Hazard	Refer to Safety Instructions & Operator Manual Avoid using outdoors during inclement weather. Refer to local weather forecasts					

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21. Does VIBRATION of the plant create a hazard? <ul style="list-style-type: none"> Plant becomes unstable Causes physical problems for the operator whilst operating Vibration of equipment Operation could cause unacceptable vibration levels in nearby structures 	Y			Injury from continuous use	Refer to Safety Instructions & Operator Manual Operator should take regular breaks to avoid muscle fatigue.	L				
22. Can the plant emit toxic FUMES or VAPOURS? <ul style="list-style-type: none"> Exhaust fumes Chemicals Haz chemicals/DG's 	Y			Potential hazard from chemicals/solvents	Do not use on or over surfaces containing hazardous chemicals, asbestos, lead based paints, etc	L				
23. Carry out NOISE survey on page 14. Is the plant noisy? <ul style="list-style-type: none"> Emit >85 dBA at the operator Effects operator communication Noise impacts on community during out-of-hours work (including reversing beepers) 		N			Noise rating less than <75dB(A)					
24. Carry out the LIGHT survey on page 14. Is there poor visibility <ul style="list-style-type: none"> At the controls At the task Darkens surrounding areas Light impacts on community or sensitive natural environment during out-of-hours work 			N/A	Site specific						

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	Y	N	N/A							
25. Does the plant emit RADIATION? <ul style="list-style-type: none"> ▪ Eg X-rays ▪ EMR ▪ Laser 		N								
26. Can operation of the plant create DUST? <ul style="list-style-type: none"> ▪ Explosive atmosphere ▪ Breathing hazard ▪ Reduced visibility ▪ Nuisance dust at nearby community ▪ Impact on local flora and fauna ▪ Loss of topsoil and spread of weeds and pathogens 	Y			Potential injury/illness from airborne contaminants Use in a well ventilated area Establish exclusion zone Use containment measures to eliminate air born contaminants escaping work area.	L					
27. Can the plant become UNSTABLE during operation? <ul style="list-style-type: none"> ▪ Working on uneven / unstable ground ▪ Shifting load ▪ Lack of plant support ▪ Outriggers 	Y			Potential hazard - site/task specific Perform site specific risk assessment	L					
28. Could LOSS of LOAD occur? <ul style="list-style-type: none"> ▪ Failure of ropes/slings ▪ Overloading ▪ Entanglement in surrounding structures ▪ Maintenance requirements 		N								

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29. Is there anything in the SURROUNDING ENVIRONMENT that may produce a hazard? <ul style="list-style-type: none"> ▪ Power lines ▪ Low ceiling ▪ Other plant ▪ Storage areas ▪ Co-located equipment ▪ Isolation requirements ▪ Potential for flash flooding if operating adjacent to waterways ▪ Operating in known areas of weeds, pathogens or contamination ▪ Operating in sensitive environments requiring protection from offsite weeds/pathogens or spills 			N/A	Site Specific						
30. Can CHEMICALS create a hazard? <ul style="list-style-type: none"> ▪ Leaking from plant ▪ Splashing ▪ Explosion ▪ PPE considerations ▪ Spill kit considerations 	Y			Potential Hazard	Never use near flammable solids, liquids or gases. Sparks could cause a fire or explosion.	L				
31. Operator TRAINING / QUALIFICATIONS? <ul style="list-style-type: none"> ▪ Training requirements ▪ Qualification requirements ▪ Competency assessments ▪ Documentation ▪ Operator's manual ▪ Equipment experience ▪ Product knowledge 			N/A							

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32. Are there <u>ANY OTHER</u> potential hazards generated by or during the use of this item of plant and/or any attachments?		N								

ALL OPERATORS OF THE PLANT OR EQUIPMENT MUST BE BRIEFED ON THE PLANT HAZARD ASSESSMENT (PHA) PRIOR TO FIRST TIME USE.

ANY RELEVANT CONDITIONS WHICH MAY IMPACT ON THE OPERATION OF THIS ITEM OF PLANT OR EQUIPMENT MUST BE TRANSFERRED TO THE AMS/TRA.

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NOISE REPORT			
Equipment Type:	Floor Scraper	Serial/Asset No.	TILELIFT
Make:	Beaver	Model:	300
Test by (print):	Leigh Evans	Date:	18/5/2022
Signature:			
Sound Level Meter Unit Used:			
Manufactures specified noise level:	<75 dBA		
Background level:	dBA		
Results – Operator’s Station (Equipment Operating)	dBA	High Idle	
	dBA	Low Idle	
Comments:			
Results – Bystander Position: At 7 metres from side of equipment – Equipment Operating (High Idle)			
Front		dBA	
Rear		dBA	
Left		dBA	
Right		dBA	
Comments:			

LIGHTING REPORT			
Test by (print):		Date:	
Signature:			
Lux Meter used:			
Results – Operator’s station			
At controls		Lux	
At emergency control		Lux	
In front/over task		Lux	
Left side task		Lux	
Right side task		Lux	
Comments:			
Results – Surroundings:			
Clearly seen by others?	<input type="checkbox"/> Yes	<input type="checkbox"/> No	
Decrease lighting in walkways?	<input type="checkbox"/> Yes	<input type="checkbox"/> No	
Decrease lighting to other workstations?	<input type="checkbox"/> Yes	<input type="checkbox"/> No	
Comments:			

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This Hazard Identification and Risk Assessment has been prepared based on several key assumptions:

- 1. That all examples of the plant currently in service are as per their original specification.*
- 2. That all examples of the plant have not been modified in any way without the prior written consent of the manufacturer or owner.*
- 3. That all examples of the plant are operated and maintained in accordance with the Manufacturer's Instructions and with all applicable statutory requirements.*

Northern Hire Group have made every attempt to identify all reasonable foreseeable operating circumstances in preparing this assessment, however no guarantee as to the completeness of this Assessment is provided or implied.

You should always check any applicable legislation and make your own judgement about what action you may need to take to ensure you have complied with the law.

It is the responsibility of the Employer, Contractor, Operator(s) to assess and identify any site or operation specific hazard associated with the use of this equipment specifically applicable to the task to be carried out and to where the equipment is to be used or located. They must assess the risk potential for each of the identified hazards and ensure that all reasonably practicable steps are undertaken to ensure those risks are effectively controlled.

All operators must be trained and competent in the use of this plant and hold appropriate qualifications as required by applicable regulatory requirements.

Operators of the plant to which this Risk Assessment refers must read and understand the instructions for Use and Warnings contained in the Operator Manual, or supplied with this Assessment, prior to use.

All daily Pre-Start checks, Routine and Periodic Inspections, Maintenance and Repairs to this plant must be carried out in accordance with the requirements of applicable Australian Standards.

NOTES:
