

**GLOBAL**

Training & Assessing Pty Ltd ABN: 42 815 975 562

Static, Hazard & Risk Assessment of Mobile Plant

Company Name: **MAINSTREAM RECYCLING**Make & Model: **CATERPILLAR 908 M WHEEL LOADER**

Plant Id. No:

Serial ID No: MHH8801031

P.I.N. ID.: CAT0908MHH8801031

Location of Assessment: Breakwater

Assessed by: (Joe) Giuseppe Cutrulla



Rego. No:

Date of Issue: 07-10-2023

Hours: 1734.1

Km's:

Assessment Label Attached: **YES**

Assessor No.: GTA 028

- This document has been developed as a guide to identify hazards on plant only.
- Workplace hazards have not been identified.
- Job safety analysis (J.S.A) - Safe Work Method Statement (S.W.M.S.) 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 – Division 5.
- National Standards (Safe Work Australia)
- National Standards for Plant (N.O.H.S.C.).
- All issues identified relating to maintenance and repairs must be rectified within 14 days of the date shown on this assessment.

REPORT ACCEPTANCE:

This Risk Assessment has been conducted to the guidelines as detailed in the Work Safe booklet 'Plant Hazard Checklist'
Machine type: **CATERPILLAR 908 M WHEEL LOADER.**

GENERAL NOTES:

The Owner - Operator of the above Plant - Equipment should conduct an inspection at least once a year. All procedures and control method are maintained to the requirements of the Occupational Health & Safety Regulations Victoria 2017. National Standards for Plant (N.O.H.S.C.). In particular when any alteration or change is made to the Plant a review of both Control Methods and Documentation should be made.

A Plant Risk Hazard Assessment should be conducted at change of location. Refer to Plant Regulations.

CONFIDENTIALITY:

This Mobile Plant Hazard & Risk Assessment Report (referred to as 'Assessment') has been produced by Global Training & Assessing Pty. Ltd. contains information that is privileged and confidential for the use only by: **MAINSTREAM RECYCLING.**

Whilst every effort has been made by Global Training & Assessing Pty. Ltd. to ensure the accuracy of this report, Global Training & Assessing Pty. Ltd. will not be held responsible and extends no warranties as to the suitability of such information or for the consequences of its use.

DISCLAIMER:

This Mobile Plant Hazard & Risk Assessment does not eliminate the Owner - Operator responsibility to maintain the Mobile Plant as per Occupational Health & Safety Regulations Victoria 2017. National Standards for Plant (N.O.H.S.C.). Copying or distributing of this Assessment by any means to a third party is expressly prohibited unless consent has been authorised by Global Training & Assessing Pty. Ltd.

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 conform to a satisfactory level of acceptance, Therefore the Mobile Plant Hazard & Risk Assessment is null and void.

IF FAULTS NOT RECTIFIED IN 14 DAYS THIS DOCUMENT BECOMES NULL AND VOID.

A PLANT RISK ASSESSEMNT SHOULD BE PERFORMED AT REGULAR INTERVALS WITH A MINIMUM OF ONCE PER YEAR.

I acknowledge receipt of the complete Assessment for the Mobile Plant item detailed above:

Supervisor - Operator Please (PRINT) _____

Signature: _____

Name of Assessor (Joe) Giuseppe Cutrulla

No.: GTA 028

Signature: _____

Date: 07-10-2023

Risk Matrix Consequences & Likelihood

LIKELIHOOD	CONSEQUENCE				
	1- Insignificant	2- Minor First Aid Required	3- Moderate Medical Attention & Time off work	4- Severe Long term illness or serious injury	5- Catastrophic Death or cause permanent disability or illness
A - Almost Certain	1A - Med	2A - High	3A - High	4A - Very High	5A - Very High
B - Likely	1B - Med	2B - Med	3B - High	4B - High	5B - Very High
C - Possible	1C - Low	2C - Med	3C - High	4C - High	5C - Very High
D - Unlikely	1D - Low	2D - Low	3D - Med	4D - Med	5D - High
E - Rare	1E - Low	2E - Low	3E - Med	4E - Med	5E - Med

VERY HIGH: Act Immediately	HIGH: Act today	MEDIUM: Act this week	LOW: Act this month
The proposed task or process activity must not proceed. Steps must be taken to lower the risk level to as low as reasonably practicable using the hierarchy of risk controls.	The proposed activity can only proceed, provided that: <ol style="list-style-type: none"> 1. The risk level has been reduced to as low as reasonably practicable using the hierarchy of risk controls. 2. The risk controls must include those identified in legislation, Australian Standards, Code of Practice etc. 3. The risk assessment has been reviewed and approved by the supervisor. 4. A Safe Working Procedure or Safe Work Method has been prepared. 5. The supervisor must review and document the effectiveness of the implemented risk controls. 	The proposed task or process can proceed, provided that: <ol style="list-style-type: none"> 1. The risk level has been reduced to as low as reasonably practicable using the hierarchy of risk controls. 2. The risk assessment has been reviewed and approved by the supervisor. 3. A Safe Working Procedure or Safe Work Method has been prepared. 	Managed by local documented routine procedures, which must include application of the hierarchy of controls.

Risk Rating:

<ol style="list-style-type: none"> 1. Eliminate the hazard altogether, e. g. get rid of the dangerous equipment. 2. Substitute the hazard with safer Isolate the alternative, e. g. replace the equipment with a safer version. 3. Isolate the hazard from anyone who could be harmed, e. g. keep the equipment in a closed room and operate it remotely. 4. Use engineering controls to reduce the risk, e. g. attach guards to the equipment to protect users. 5. Use administrative controls to reduce the risk, e. g. train workers how to use the equipment safely. 6. Use P.P.E. e. g. wear gloves, goggles etc. when using the equipment. 	<p>More Effective</p> <p>↑</p> <p>↓</p> <p>Less Effective</p>
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Potential Hazard	Risk Rating without Controls	Identified		Control Method in place	YES NO N-A	Comments - Recommended Improvements	Projected Risk Score	Action Completed
		YES	NO					
1. ENTAGLEMENT: Can anybody's hair, clothing, gloves, necktie, jewellery, cleaning brushes, rags and other materials become entangled with moving parts of plant, materials in motion:								
a) Can anybody become entangled with moving parts or materials in motion?	4 B High	Y	Manufacturers warning decal fitted Engine covers Rotating parts warning decals Guarding installed Keep clear a decals Has the operator been inducted	Y	All decals in operator's cab Fitted Fitted Fitted Fitted Addressed by company induction, Company to implement	2 C Medium		
2. CRUSHING: Can anyone be crushed due to:								
a) Uncontrolled or unexpected movement of the plant or its load?	5 B Very High	Y	Neutral start switch Reversing - Motion travel alarm Crush Zone warning decal fitted Amber flashing beacon Reverse lights – camera Rear view mirror Brake lights Controls have appropriate knobs Pedals non - slip surface Keep clear decal Machine may suddenly reverse warning decal fitted	Y	Fitted Fitted and MUST be always working Fitted Fitted Fitted Fitted Fitted Fitted Fitted Operator must check surroundings and look behind before reversing	2 C Medium		
b) Material falling off the plant?	4 B High	Y	N	Emergency Stop fitted	NO	Self-latching device	2 B Medium	
			Y	Attachment (e.g., forks, ramps, etc.,) Moving bucket, breaker Quick Hitch	Y			
c) Lack of capacity for plant to be slowed, stopped or immobilised?	5 A Very High	Y	Hydrostatic drive forward - reverse levers	Y	Operator to keep personnel clear of operating radius of machine	2 B Medium		
			Service brake operational					
			Parking brake operational					
		N	Drain air tanks daily decal	NO				
d) Parts of plant collapsing?	5 A Very High	N	Safety bar - props - pins fitted	NO	SWMS, use Safety bar-prop, chocks-blocks	2 C Medium		
Y		Do not stand under raised attachment decal	Y	Company to implement				
N		Use safety bar when working under raised attachment decal	NO	Company to implement				
e) Coming into contact with moving parts of the plant during testing, inspection, operation, maintenance, cleaning or repair?		Y	Equipment to be maintained to safe standard by company Battery isolation switch	Y	Maintenance carried out in line with manufacturer's recommendations. Use Do Not Start tag, Fitted, Battery must be isolated during maintenance, Company to implement			
f) Being thrown off or under the plant?	5 A Very High	Y	No passenger decal	Y	Fitted Fitted, Operator must always wear seat belt, Company to implement Company to implement	2 C Medium		
			Seat belt					
			Wear seat belt decal					
g) Being trapped between the plant and fixed structures during maintenance?		Y	Training, signs, decals, barricades	Y	Company to implement			

Potential Hazard	Risk Rating without Controls	Identified		Control Methods in place	YES NO N-A	Comments - Recommended Improvements	Projected Risk Score	Action Completed
		YES	NO					
g) The plant tipping or rolling over?	5 A Very High	Y		Manufacture design cab	Y	A.D.R. Approved Cab	2 B Medium	
				Operator cabin fully enclosed		Fitted		
				Door				
				Glass - safe and in operation conditions				
		N		Operator cabin open	N-A	J.S.A. -S.W.M.S. should be conducted for each job site, Fitted, ISO 3471-2008		
		Y		ROPS approved structure	Y	Fitted, Fitted, ISO 3449-2005 Level II		
				ROPS decal				
		N		TOPS - OPG approved structure	NO			
Y		Operator cabin enclosed with seat belt, ROPS & FOPS	Y	Operator must wear the seat belt in R.O.P.S. structure				
i) Other factors not mentioned		N		NO				
3. CUTTING: Can anyone be stabbed, cut or punctured due to:								
a) Coming into contact with sharp objects?	5 A Very High	Y		No visible signs of sharp objects, edges	Y	SWMS. P.P.E. must be worn. Company to implement	2 C Medium	
				Guarding, warning signs, hard hat, safety boots, P.P.E.				
b) The plant, parts of the plant or work pieces disintegrating?				Guarding, warning signs, hard hat, safety boots, P.P.E.		Wear correct P.P.E. Company to implement	2 C Medium	
c) Coming into contact with moving parts of the plant during testing or repair of the plant				Machine to be maintained to a safe standard by the company		SWMS, Company to implement.	2 C Medium	
			Isolate machine using lockout tags and isolator if fitted	Fitted, Battery isolation fitted				
d) The mobility of the plant?		N		Danger may suddenly reverse without warning decal fitted	NO	Operator must check surroundings and look behind before reversing	2 B Medium	
e) Uncontrolled or unexpected movement of the plant?	Y		Crush zone warning decal	Y	Fitted, Keep personnel out of operating radius while operating machine			
f) Other factors not mentioned		N		Crush zone - rotating parts decal	NO			
4. SHEARING: Can anyone's body be sheared between a part of the plant and a work structure:								
a) Body parts being sheared between plant and or structures?	5 A Very High	N		Do not start decal	NO	Use when servicing machine, Company to implement	2 C Medium	
		Y		Attached safety bar before entering decal	Y	Company to implement		
5. HIGH TEMPERATURE: Can anyone come into contact with objects at high temperatures or friction or injured by fire:								
a) Coming into contact with hot parts?	4 B High	Y		High mounted exhaust	Y	Fitted	2 C Medium	
				Exhaust guarding		Fitted		
				Hot surface decal fitted		Fitted		
				Fire extinguisher supplied				

Potential Hazard	Risk Rating without Controls	Identified		Control Method in place	YES NO N-A	Comments - Recommended Improvements	Projected Risk Score	Action Completed
		YES	NO					
6. STRICKING: Can anyone be struck by moving objects due to:								
a) Uncontrolled or unexpected movement of the plant or material handle by the plant?	5 A Very high	Y	Forward - Reverse control	Y	Operator to keep personnel clear of operating radius of machine	2 B Medium		
			Foot brake operational					
			Park brake operational					
			Keep clear warning decal fitted					
		N	Quick Hitch self - latching device	NO				
			Safety bar supplied to lift cylinders	NO				
		Safety bar use for un laden body only decal						
b) The plant, parts of the plant or work pieces disintegrating?		Y	Machine guarding	Y	Fitted Fitted, Operator to keep personnel clear of operating radius of machine Addressed by daily inspection booklet, Company to implement			
			Keep clear decal					
			Prestart inspection					
			Head, taillights					
			Indicator, hazard lights					
			Brake lights					
			Work lights fitted front - rear					
	Reverse Lights - Camera							
	Amber flashing beacon							
	Instructions decal in English							
	All labels readable							
	Control functions identified							
c) Mobility of the plant?		Warning horn		Fitted				
		Reverse - Motion alarm warning		Fitted and be always working				
7. HIGH PRESSURE FLUID: Can anyone come into contact with fluids under high pressure:								
a) Leaking hydraulic hoses?	4 B High	N	Non return valves fitted (craning - lifting valves)	NO	Fitted Hoses have been checked Warning decals fitted Hydraulic oil decal fitted	2 C Medium		
		Y	All pipes clamped	Y				
			High pressure fluid					
			No visible sign of excessive lubricant leakage					
8. ELECTICAL: Can anyone be Injured by electrical shock or burnt due to:								
a) The plant contacting live conductors?	5 A Very High	Y	Has a JSA - SWMS been conducted	Y	Only qualified and trained people must complete Task, and J.S.A. – S.W.M.S. must be completed, Company to implement Fitted Fitted Company to implement	2 C Medium		
			Certificate for No Go Zone					
			Look up and Live decal in operator's sight					
			Electrical wire warning decal					
			Underground services - Dial Before You Dig					
b) Lack of isolation procedure?	4 B High	Y	Isolation switch on battery	Y	Fitted, Battery must be isolated during maintenance Fitted Fitted	2 C Medium		
c) Damaged or poorly maintained electrical leads and cables?			Battery cover					
			Battery decal					
d) Damaged Switches?			No visible sign of damage					

Potential Hazard	Risk Rating without Controls	Identified		Control Methods in place	YES NO N-A	Comments - Recommended Improvements	Projected Risk Score	Action Completed		
		YES	NO							
9. FALLING - SLIPPING: Can anyone using the plant or in the vicinity of the plant, slip, trip or fall from a height greater than 2 meters:										
a) Can someone fall over 2 m.?	5 B Very High	Y	Prevention of falls - hand rails	Y	Addressed by handrails, guardrails or S.W.M.S. must be conducted to address the falling issue, guardrails are fitted if Above 2 M. in height Company to implement.	2 C Medium				
b) Poor floor or walking surface?	4B High	Y	Nonslip surface - Nonslip tape	Y	Applied to walking areas Fitted Fitted, Operator MUST always maintain 3 Points of Contact Company to implement.	2 C Medium				
c) Lack of proper stairs - steps?			Steps - footings in place							
d) Lack of guardrail - handrail - grabs?			Guardrails - handrails - grabs in place use 3 points of contact when climbing warning decal fitted							
e) Lack of proper work platform?		N	Guardrails - harness platform ladder	N-A						
f) Poor housekeeping?	4 C High	Y	Operator's cabin clear of debris, tools, chains, grease gun etc. No visible sign of excessive lubricant leakage	Y	Company to implement	2 C Medium				
10. ERGONOMIC: Can anyone be injured due to:										
a) Poor seating?	4 C High	Y	Seat adjustment controls operating	Y		2 B Medium				
b) Constrained body effort?			Seat in usable condition Operator control levers & pedals in operator's reach							
11. SUFFOCATION: Can anyone suffocate due to lack of oxygen or atmospheric contamination:										
	5 C Very High	Y	Ventilation Heat Stress Air Conditioning	Y	Carry water and wear correct PPE, Company to implement Fitted	2 B Medium				
12. OTHER HAZARDS: Can anyone be injured or suffer ill-health from exposure to chemical, toxic gases or vapours, fumes, dust noise, vibration, radiation, other factors not mentioned:										
a) Hazardous substances, noise, dangerous goods, plants, manual handling, trenching, prevention of falls?	5 B Very High	Y	Addressed by compliance codes and training	Y	SWMS, MSDS and training, Company to implement	2 C Medium				
b) Noise			Within or above 85 dB limit Hearing protection supplied Hearing protection decal Operator issued with PPE		J.S.A. – S.W.M.S. to be in place if over 85 dB Company to implement Fitted					
c) Other items			N		Load capacity chart fitted SWL - WLL marked on boom Approved lifting point			NO	Refer to Manufacture's Manual, Company to implement	2 C Medium
d) Fumes			Y		Engine fumes not excessive at high idle Door window seals serviceable			Y		
e) Chemicals	4 B High	N	M.S.D.S. (Material Safety Data Sheet) Do not drink decal	NO		2 C Medium				

Potential Hazard	Risk Rating without Controls	Identified		Control Methods in place	YES NO N-A	Comments - Recommended Improvements	Projected Risk Score	Action Completed
		YES	NO					
13. OPERATION: Have the following areas been addressed								
a) Does the operator hold certificate safety, qualification card to operate this item of plant?	5 C Very High	Holds Relevant Qualifications			If operator is not on site, to be addressed by the company			
		Y	Certificate No:		Y	Company to implement		2 C Medium
			Type of Plant:					
			Date of Issue: Exp. Date:					
14. DOCUMENTATION: Can documentation be provided for: If not on site, to be addressed by the company								
a) Daily inspection fault report book?	2 B Medium	Y	Plant daily inspection book – sheets		Y	Company to implement		1 E Low
Date of last entry								
Records held by company and available on request								
In Operator's Station - Office								
Operator manual in English and in readable condition								
b) Service and maintenance records.			Attachment instructions available					
c) Operation manual issued.								

The items addressed from the Work Safe Plant Hazard Checklist and the Attached 'Static Hazard & Risk Assessment of Mobile Plant' as follows:

1. ENTANGLEMENT
2. CRUSHING
3. CUTTING
4. SHEARING
5. HIGH TEMPERATURE
6. STRIKING
7. HIGH PRESSURE FLUID
8. ELECTRICAL
9. FALLING - SLIPPING
10. ERGONOMICS
11. SUFFOCATION
12. OTHER HAZARDS
13. OPERATOR
14. DOCUMENTATION

All the above items have been addressed in the 'Static Hazard & Risk Assessment of Mobile Plant' and have been controlled by the following:

This 'Static Hazard & Risk Assessment of Mobile Plant' addresses all the requirements of:

- Occupational Health & Safety Regulations Victoria 2017
- Victorian Occupational Health & Safety Act 2004
- National WHS Regulations
- National Standards (Safe Work Australia)
- The Worksafe booklet "Understanding the Plant Safety Package"
- The Worksafe Plant Hazard Checklist
- The Hierarchy of Hazard Control which addresses:
 1. Elimination. This is a permanent solution and should be attempted in the first place.
 2. Substitution. This includes Plant which presents a lower risk.
 3. Engineering. Involves changing the structure e. g: Guarding.
 4. Isolation. Separate the person from the Plant, e. g: Operating in an enclosed area.
 5. Administrative. Provides a system that reduces the possibility of a person being exposed to the hazard.
 6. Personal Protective Equipment. Is generally used as a short-term control measure.

THE HIERARCHY OF HAZARD CONTROL

Elimination. This is a permanent solution and should be attempted in the first place.
Not required for this item of plant.

Substitution. This includes plant, which present a lower level of risk.
Not required for this item of plant.

Isolation. Separate the person from the Plant, e. g. operating in an enclosed area.
Not required for this item of plant.

Engineering. Involves changing the structure, e, g. guarding.
Not required for this item of plant.

Administrative. Provide a system that reduces the possibility of a person being exposed to the hazard.
Addressed by placing safety decals in areas of low risk on this item of plant.

Personal protective equipment. Is generally used as a short-term control measure.
Other than general P.P.E. that is required by all worksites no special P.P.E. is required for the operator of this item of plant.

OTHER CONTROLS

Areas of low risk, decals have been placed to warn operators and workers.
Areas of medium risk, comments have been made and are to be addressed by the owner.
Areas of high risk, the machine will be tagged, "do not use", keys removed and reported to owner.