



## RISK MANAGEMENT REPORT

<b>Report Number</b>	DYNA 20141023-1126
<b>Date Created</b>	23-October-2014
<b>Created By</b>	Graeme Reid
<b>Date Completed</b>	23-October-2014
<b>Assessed By</b>	Graeme Reid
<b>Company</b>	Dynapac Australia Pty Ltd
<b>Make</b>	Dynapac
<b>Model</b>	CC102
<b>Type</b>	Rollers, Tandem Vibratory
<b>Identifier</b>	Not specified
<b>Identifier 2</b>	
<b>Location</b>	
<b>Lot Number</b>	
<b>Assessment Purpose</b>	Hire
<b>State</b>	QLD

## TABLE OF CONTENTS

### Section 1 - Important Information

Contains information outlining the scope and any limitations applicable to this Risk Management Report

### Section 2 - Unit Details

Contains standard unit specifications and details of any extras fitted

### Section 3 - Risk Analysis, Risk Evaluation & Risk Treatment

Contains details of the technique used to calculate risk ratings, time frame and risk treatments. Please refer to this information when reviewing and interpreting the information in section 4

### Section 4 part 1 - Risk Treatments Required

Contains detailed information regarding the risk treatments to be implemented including hazard, risk rating, time frame, relevant standards & legislative references

### Section 4 part 2 - Risk Treatments in Place

Contains detailed information regarding the risk treatments in place including hazard, risk rating, relevant standards & legislative references

### Section 5 - Images & Documents

Contains images & any relevant information entered by the assessor

**UNIT DETAILS**

**Make Model Type** Dynapac  
CC102  
Rollers, Tandem Vibratory

**Identifier Assessed By Date**

Not specified  
Graeme Reid  
23-October-2014

**SECTION 1 IMPORTANT INFORMATION**

This report pertains to this item of plant as it appeared on the day of inspection.

It is the responsibility of the hirer to conform with the instructions and information contained within this report. Any change in condition of this item of plant should be reported to the hire company immediately.

Any information relating to the standard features have been supplied via the manufacturer and should be used as a guide only until verified.

For further information regarding this report contact Online Safety Systems on 1300 72 88 52

**SECTION 2 UNIT DETAILS****STANDARD SPECS****- Noise Test Results**

1. Manufacturers specified noise level dBA	
2. Ambient noise level dBA	
3. Noise level - Operator position (high idle) dBA	
4. Noise level - Operator position (low idle) dBA	
5. Noise level LHS dBA @ m (high idle)	
6. Noise level Front dBA @ m (high idle)	
7. Noise level RHS dBA @ m (high idle)	
8. Noise level Rear dBA @ m (high idle)	

**Body type**

Articulated/Rigid	A
-------------------	---

**Brakes**

Service Braking System -	HS
--------------------------	----

**Capacities**

Nominal amplitude, high + low (mm)	0.47
------------------------------------	------

Water sprinkler tank capacity (lit)	160
-------------------------------------	-----

**Dimensions/Weights**

Centrifugal force, high+low amplitude (kN)	23
--	----

Height (mm)	2,640
-------------	-------

Length (mm)	2,395
-------------	-------

Operating weight (kg)	2,350
-----------------------	-------

Static weight on drums, front/rear (kg)	1130/1220
---	-----------

Turning circle diameter (mm)	7,460
------------------------------	-------

Width (mm)	1,150
------------	-------

**Drives**

Drive: single drum/double drum	Dble drum
--------------------------------	-----------

**Drums**

Drum widths front/rear (mm)	1070/1070
-----------------------------	-----------

Split drums	
-------------	--

Vibration: single drum/double drum	Dble drum
------------------------------------	-----------

**Engine**

Engine displacement (lit)	1.34
---------------------------	------

Engine Hours	
--------------	--

Engine make & model	Deutz F2L1011
---------------------	---------------

Engine number	
---------------	--

Net power, SAE rated (kW@rpm)	21@2600
-------------------------------	---------



**UNIT DETAILS****Make Model Type**  
Dynapac  
CC102  
Rollers, Tandem Vibratory**Identifier Assessed By Date**Not specified  
Graeme Reid  
23-October-2014

Number of Cylinders	2
<b>General</b>	
Drum mats for hot mix	Yes
<b>Plant Classifications</b>	
Class	
Year	1993 - 2006
<b>Transmission</b>	
Transmission type	HS
<b>Work Capabilities</b>	
Gradeability w/o vib (%)	51
Vibratory frequency, max+min (Hz)	56

**EXTRAS**

## DETAILS

ROPS - Two Post

**SECTION 3**

Risk Analysis						
Consequence						
		1 Insignificant Dealt with by in house first aid	2 Minor Treated by medical professionals, hospital out patients	3 Moderate Significant non permanent injury, overnight hospital stay	4 Major Extensive permanent injury, e.g. Loss of fingers, extended hospital stay	5 Catastrophic Death, permanent disabling injury e.g. Loss of hand, quadriplegia
Likelihood	A Almost certain to occur in most circumstances	MEDIUM 8	HIGH 16	HIGH 18	CRITICAL 23	CRITICAL 25
	B Likely to occur frequently	MEDIUM 7	MEDIUM 10	HIGH 17	HIGH 20	CRITICAL 24
	C Possible and likely to occur at sometime	LOW 3	MEDIUM 9	MEDIUM 12	HIGH 19	HIGH 22
	D Unlikely to occur but could happen	LOW 2	LOW 5	MEDIUM 11	MEDIUM 14	HIGH 21
	E May occur but only in rare circumstances	LOW 1	LOW 4	LOW 6	MEDIUM 13	MEDIUM 15

Risk Evaluation	
<b>CRITICAL</b>	Act immediately to mitigate risk. Implement risk treatment(s) in accordance with the risk treatment table below.
<b>HIGH</b>	Act immediately to mitigate risk. Implement risk treatment(s) in accordance with the risk treatment table below. If the appropriate permanent risk treatments are not immediately accessible establish interim risk treatment strategies. Permanent risk treatments must be implemented within one week.
<b>MEDIUM</b>	Take reasonable steps to mitigate and monitor the risk. Implement risk treatment(s) in accordance with the risk treatment table below. Permanent risk treatments must be implemented within one month.
<b>LOW</b>	Take reasonable steps to mitigate and monitor the risk. Implement risk treatment(s) in accordance with the risk treatment table below. Permanent risk treatments must be implemented within three months.

Risk Treatment	
Selecting the most appropriate risk treatment option involves balancing the costs and efforts of implementation against the benefits derived, with regard to legal, regulatory and other requirements. (source AS/NZS ISO 31000:2009)	
<b>Eliminate</b>	Eliminate the risk source.
<b>Substitute</b>	Provide an alternative that is capable of performing the same task which is safer.
<b>Engineering</b>	Provide or construct a physical barrier or guard.
<b>Administrative</b>	Develop policies, procedures, practices and guidelines in consultation with employees to mitigate the risk. Provide training, instruction and supervision about the risk source.
<b>Personal protective</b>	Provide personal protective equipment to protect the individual from the risk source.

**SECTION 4 PART 1 RISK TREATMENTS REQUIRED**


This section of the report pertains to hazards created by use of this item of plant which currently do not have risk treatments in place. The risk treatments recommended in this section have been developed based on relevant Australian Standards, health & safety legislation, the hierarchy of risk treatment in accordance with the guidelines set forth in AS/NZS ISO 31000 – Risk Management and various other sources. The recommended risk treatment measures must be developed, implemented and validated as effective prior to the operation, maintenance or testing of this item of plant. Treatments applied must be dated and initialled adjacent the recommendations. All operators must read and understand the entire contents of this section prior to operating this item of plant.

There are no risk treatments required

**SECTION 4 PART 2 RISK TREATMENTS IN PLACE**

This section of the report pertains to risk treatments currently in place on this item of plant. This section must be read in conjunction with the safety section of the manufacturers handbook. All operators must read and understand the entire contents of this section prior to operating this item of plant. These treatments or equivalent must remain in place at all times whilst this item of plant is in operation.

**Delivery**


 **Hazard(s):** Crushing  
**Preliminary Risk Rating:** HIGH 22  
**Risk Treatment:** SWMS Loading/Unloading  
 Ensure that all operators follow approved SWMS/SOP when loading and unloading this machine to and from a flat top truck or trailer, low loader or tilt tray.

**Relevant References:**  
**Residual Risk Rating:** MEDIUM 15

 **Hazard(s):** Crushing  
**Preliminary Risk Rating:** HIGH 22  
**Risk Treatment:** SWMS Load Restraint  
 Ensure that all operators follow the approved SWMS/SOP when restraining this machine for transport.


**Relevant References:**  
**Residual Risk Rating:** MEDIUM 15

**Operation**


 **Hazard(s):** Incorrect Operation  
**Preliminary Risk Rating:** HIGH 22  
**Risk Treatment:** Operation Handbook  
 The manufacturer's operation handbook has been supplied for this item of plant.  
 This handbook must be available at all times to all potential operators and supervisory staff. All potential operators must read and be familiar with this handbook prior to operating.

**Relevant References:** AS1470, AS2153, ISO31000-2009 Risk Management  
**Residual Risk Rating:** MEDIUM 15


A complete risk assessment/Job Safety Analysis must be undertaken covering all operating processes and environments associated with this item of plant. SWMS should be produced for specific tasks associated with use of this item of plant.

 **Hazard(s):** Incorrect Operation  
**Preliminary Risk Rating:** HIGH 22  
**Risk Treatment:** Pre-op Checklist Roller, Tandem Vibratory  
 A pre-operational checklist is available for this Roller, Tandem Vibratory. All operators must complete this checklist prior to operating this Roller, Tandem Vibratory.

**Relevant References:** ISO31000-2009 Risk Management  
**Residual Risk Rating:** MEDIUM 15

 **Hazard(s):** Incorrect Operation  
**Preliminary Risk Rating:** HIGH 22  
**Risk Treatment:** SOP Roller, Tandem Vibratory  
 Safe Operation Procedures are available for this Roller, Tandem Vibratory. The information in the Safe Operation Procedures must be followed at all times whilst operating this Roller, Tandem Vibratory.

**Relevant References:** ISO31000-2009 Risk Management  
**Residual Risk Rating:** MEDIUM 15

 **Hazard(s):** Incorrect Operation  
**Preliminary Risk Rating:** CRITICAL 24  
**Risk Treatment:** Operator Competency  
 Only persons who are qualified, trained and experienced and/or hold the relevant certification/license can operate this item of plant. If there is not a competent/licensed person available for operation of this item of plant then only persons who are supervised by a competent/licensed person can operate this item of plant.

**Relevant References:** AS1470, ISO31000-2009 Risk Management  
**Residual Risk Rating:** MEDIUM 15

**Hazard(s):** Incorrect Operation  
**Relevant References:** AS1470, AS4024, HB59, ISO31000-2009 Risk Management

**UNIT DETAILS**

**Make Model Type** Dynapac CC102 Rollers, Tandem Vibratory

**Identifier Assessed By Date**

Not specified  
Graeme Reid  
23-October-2014



**Preliminary Risk Rating:** HIGH 22  
**Risk Treatment:** Control Labels

**Residual Risk Rating:** MEDIUM 15

All controls including all levers, buttons, pedals, switches etc. are clearly labelled as to their purpose and method of operation. These labels must be maintained in a clean and serviceable condition at all times.

**Hazard(s):** Crushing, Falling

**Relevant References:** AS1470, AS1636, AS2294, ISO31000-2009 Risk Management



**Preliminary Risk Rating:** HIGH 22  
**Risk Treatment:** Passenger Seat Label

**Residual Risk Rating:** MEDIUM 15

This item of plant is fitted with a clear hazard warning label re: Operator only, No passengers. Passengers must not be carried at anytime. This label must be clear and legible at all times whilst this item of plant is in operation.

Legislation: State Health & Safety Legislation & Regulation

**Hazard(s):** Crushing

**Relevant References:** AS1470, AS1636, AS2294, ISO31000-2009 Risk Management



**Preliminary Risk Rating:** HIGH 22  
**Risk Treatment:** ROPS Label

**Residual Risk Rating:** MEDIUM 15

The warning label stating that the ROPS must not be damaged at any time (including cuts, drill holes and welds) must be present, clean and legible at all times.

**Hazard(s):** Crushing

**Relevant References:** ISO31000-2009 Risk Management, ISO3471-2008



**Preliminary Risk Rating:** HIGH 22  
**Risk Treatment:** ROPS seat belt label

**Residual Risk Rating:** MEDIUM 15

The advisory label stating that a "ROPS is fitted seatbelts must be worn" must be followed at all times whilst operating this item of plant. This label must be present, clean and legible at all times.

**Hazard(s):** Crushing

**Relevant References:** AS1470, AS2153.3, ISO31000-2009 Risk Management



**Preliminary Risk Rating:** HIGH 21  
**Risk Treatment:** Articulated Joint Crush Label

**Residual Risk Rating:** MEDIUM 15

This item of plant has clear hazard warning labels re: crush zone, keep clear, that are attached to each side of the articulated joint. These must be present, clear and legible at all times whilst this item of plant is in operation.

**Hazard(s):** Collision

**Relevant References:** ISO31000-2009 Risk Management



**Preliminary Risk Rating:** HIGH 22  
**Risk Treatment:** Phone Use label

**Residual Risk Rating:** MEDIUM 15

This item of plant is fitted with an instruction label advising that mobile phones must not be used whilst operating this machine. Accordingly all operators must not use a mobile phone at any time whilst operating machine. If phone use is necessary then operator must place machine in park configuration in a safe position prior to phone use. Operators MUST adhere to this advice at all times.

This label must be clear and legible at all times whilst this item of plant is in operation.

**Hazard(s):** Burns, Explosion, Poisoning

**Relevant References:** AS1470, AS2153, ISO31000-2009 Risk Management



**Preliminary Risk Rating:** HIGH 22  
**Risk Treatment:** Tank ID Label

**Residual Risk Rating:** MEDIUM 15

The tank(s) on this item of plant have clear, legible label(s) identifying their contents, and if appropriate any necessary controls re: the contents. These must be present, clear and legible at all times. (this includes radiator, hydraulic and petrol/diesel tanks)

**Hazard(s):** Hearing Loss

**Relevant References:** AS1269-2005 Occupational noise management, AS1470, AS2012, AS3781, ISO31000-2009 Risk Management



**Preliminary Risk Rating:** HIGH 19  
**Risk Treatment:** Hearing Protection Label - Operator

**Residual Risk Rating:** MEDIUM 14

The hazard warning label(s) re: wearing of hearing protection attached to this item of plant refer to the level of noise produced. Permanent hearing damage will result if hearing protection is not worn. These labels must be present, clear and legible at all times whilst this item of plant is in operation.

**Hazard(s):** Hearing Loss

**Relevant References:** AS1269-2005 Occupational noise management



**Preliminary Risk Rating:** HIGH 19  
**Risk Treatment:** Hearing Protection Label - Bystanders

**Residual Risk Rating:** MEDIUM 14

The hazard warning labels re: wearing of hearing protection for bystanders attached to this item of plant refer to the level of noise produced. Permanent hearing damage will result if hearing protection is not worn. These labels must be present, clear and legible at all times whilst this item of plant is in operation.

**Hazard(s):** Burns, Entanglement, Shearing

**Relevant References:** AS1470, AS2153

## UNIT DETAILS

**Make Model Type** Dynapac  
CC102  
Rollers, Tandem Vibratory

**Identifier Assessed By Date**

Not specified  
Graeme Reid  
23-October-2014



**Preliminary Risk Rating:** HIGH 19

**Residual Risk Rating:** MEDIUM 13

**Risk Treatment:** Engine Guard Label

The engine fan and alternator belts, pulleys and gears are guarded. These guards have clear legible hazard warning labels re do not open or remove guards while engine is running. These labels must be present, legible and easily seen at all times whilst this item of plant is in operation.



**Hazard(s):** Burns

**Relevant References:** AS1470, ISO31000-2009 Risk Management

**Preliminary Risk Rating:** MEDIUM 12

**Residual Risk Rating:** MEDIUM 12

**Risk Treatment:** Open Cabin

Dust, exhaust fumes, chemical fumes, sunstroke and sunburn pose serious risk to the operator both short and long term. The appropriate controls for all of these hazards must always be available whilst this item of plant is in operation. If these controls e.g. hats, sunscreen, dust masks etc are not available then operation of this item of plant must cease until these are made available to all operators.



**Hazard(s):** Collision, Crushing

**Relevant References:** AS1470, AS2153, AS2359, ISO31000-2009 Risk Management

**Preliminary Risk Rating:** MEDIUM 12

**Residual Risk Rating:** LOW 6

**Risk Treatment:** Warning Device (horn)

This item of plant is fitted with a fully functional audible warning device such as a horn. This must be easily accessed by the operator, and easily identifiable by nearby pedestrians.

All operators should ensure the warning devices are functional at the start of each shift, by completing pre-start checklists. Warning devices should operate automatically where appropriate (eg reversing)



**Hazard(s):** Collision, Crushing, Striking

**Relevant References:** AS1470, AS2153, AS4024, ISO31000-2009 Risk Management

**Preliminary Risk Rating:** MEDIUM 12

**Residual Risk Rating:** LOW 6

**Risk Treatment:** Tail Swing Label

The rear of this item of plant has a hazard warning label re: general plant movement, tail swing, keep clear. It must be present and fully functional and serviceable at all times.



**Hazard(s):** Collision

**Relevant References:** ISO31000-2009 Risk Management

**Preliminary Risk Rating:** MEDIUM 9

**Residual Risk Rating:** LOW 5

**Risk Treatment:** Recovery Point Label

This item of plant is fitted with a hazard warning label adjacent the recovery tow point which states "Danger - Do not tow this item of plant until you read, understand and follow the manufacturers' towing instructions. Failure to do so could result in DEATH or Serious Injury". This label must be clear and legible at all times whilst this item of plant is in operation.



**Hazard(s):** Fire

**Relevant References:** AS1470, AS1841, AS1851, AS2153.7, ISO31000-2009 Risk Management

**Preliminary Risk Rating:** MEDIUM 13

**Residual Risk Rating:** LOW 4

**Risk Treatment:** Fire Extinguisher

This item of plant is fitted with an approved and maintained fire extinguisher. Fire extinguisher(s) must be present and fully functional at all times. They must be readily accessible to the operator. Regular inspections must also be carried out in accordance with the manufacturer's requirements and AS 1851 – 1995

## Design Compliance



**Hazard(s):** Collision

**Relevant References:** AS1470, ISO31000-2009 Risk Management

**Preliminary Risk Rating:** HIGH 22

**Residual Risk Rating:** HIGH 21

**Risk Treatment:** Beacon

This item of plant is fitted with a safety beacon. This beacon must meet the following criteria at all times whilst this item of plant fitted is in operation -

- is visible up to 200m in all directions (allowing for intermittent obstruction from the plant structure whilst the plant is in operation)
- is fitted in the most appropriate location on machine to maximise visibility without risking continual damage

NOTE: more than one beacon may be fitted to meet these criteria.



**Hazard(s):** Entrapment

**Relevant References:** AS1470, AS2153.7, AS2953, ISO31000-2009 Risk Management, ISO4252

**Preliminary Risk Rating:** HIGH 21

**Residual Risk Rating:** MEDIUM 15

**Risk Treatment:** Two Operator Exits

The operator cabin/work area on this item of plant has a minimum of two (2) possible exits. These must be functional and accessible at all times whenever the item of plant is manned, whether during operation or maintenance activities.

**Hazard(s):** Crushing

**Relevant References:** ISO24135.1-2006, ISO3776.1-2006, ISO6683-2005

**UNIT DETAILS**

**Make Model Type** Dynapac CC102 Rollers, Tandem Vibratory

**Identifier Assessed By Date**

Not specified  
Graeme Reid  
23-October-2014



**Preliminary Risk Rating:** HIGH 22  
**Risk Treatment:** Seat Belt

**Residual Risk Rating:** MEDIUM 15

This item of plant is fitted with an operator seat belt. This seat belt must be free from damage, and permanently and sturdily attached at all times whilst this item of plant is in operation. Operators must use this seat belt at all times during operation.



**Hazard(s):** Collision, Crushing  
**Preliminary Risk Rating:** CRITICAL 24  
**Risk Treatment:** Park Brake

**Relevant References:** AS1470, ISO31000-2009 Risk Management  
**Residual Risk Rating:** MEDIUM 15

The park brake fitted to this item of plant is fully functional at all times. The park brake must be regularly inspected and tested. These inspections and tests must be documented as part of your plant safety programme.



**Hazard(s):** Crushing  
**Preliminary Risk Rating:** HIGH 22  
**Risk Treatment:** Earthmoving ROPS

**Relevant References:** AS2294, ISO3471-2008  
**Residual Risk Rating:** MEDIUM 15

A Roll Over Protective Structure (ROPS) to AS 2294, ISO 3471, ISO 12117.1 or 2 or SAE J1040 is fitted to this item of plant. A permanent label stating this standard must be attached to the structure at all times. It must also carry a warning label re: wearing of seat belts at all times whilst this item of plant is in operation, and accordingly seat belts must be worn at all times during operation.



**Hazard(s):** Collision, Crushing  
**Preliminary Risk Rating:** HIGH 22  
**Risk Treatment:** Reverse Movement Alarm

**Relevant References:** AS1470, AS4024, ISO31000-2009 Risk Management, ISO7731-2003, ISO9533-2010  
**Residual Risk Rating:** MEDIUM 15

A reverse movement sensor alarm is fitted to this item of plant. It must be fully functional and serviceable at all times whilst this item of plant is in operation.



**Hazard(s):** Crushing  
**Preliminary Risk Rating:** HIGH 22  
**Risk Treatment:** Articulated Joint Locking Device

**Relevant References:** AS1470, AS2153.3, ISO31000-2009 Risk Management  
**Residual Risk Rating:** MEDIUM 15

This item of plant is fitted with a safety locking device to the articulated joint (either a locking arm or cylinder locking devices) and clear, legible instruction labels on both sides of the articulated joint which state that either of these devices must be engaged during any maintenance to the articulated joint. These must be present, serviceable and employed at all times whilst this item of plant is in operation.



**Hazard(s):** Burns, Striking  
**Preliminary Risk Rating:** HIGH 22  
**Risk Treatment:** Hydraulic Hoses

**Relevant References:** AS2671-2002, ISO4413-1998  
**Residual Risk Rating:** MEDIUM 15

This item of plant has hydraulic hoses. These hoses must be inspected each day or before each use for wear and tear. If there are visible signs of wear immediate action must be taken to control the risk arising from this wear. These inspections must be documented.

Hydraulic fluid at high pressure can penetrate the skin, never use any part of your body to check for leaks. If oil penetrates the skin seek medical advice immediately. Always use a piece of cardboard or similar to check for suspected leaks.

Hydraulic pressure can be stored and is a hazard. Before disconnection or connection of hydraulic hoses complete the following steps -

1. Stop engine
2. Keep all bystanders clear of the work area
3. Refer to operators manual as to methods to release pressure
4. Wait 5 minutes



**Hazard(s):** Entanglement  
**Preliminary Risk Rating:** HIGH 22  
**Risk Treatment:** Engine Guards

**Relevant References:** AS2153.1-1997, AS4024  
**Residual Risk Rating:** MEDIUM 15

The engine fan and alternator belts, pulleys and gears are guarded. These guards must be present and fully functional and serviceable at all times whilst this item of plant is in operation.



**Hazard(s):** Incorrect Operation  
**Preliminary Risk Rating:** HIGH 20  
**Risk Treatment:** Intuitive Controls

**Relevant References:** AS4024.1906-2006, ISO31000-2009 Risk Management  
**Residual Risk Rating:** MEDIUM 14

The controls fitted to this item of plant are orientated so that the movement of the control is consistent with the action of the machine e.g. moving a control lever to the left results in the machine turning to the left. This design feature must be maintained at all times whilst this item of plant is in operation.

**Hazard(s):** Incorrect Operation, Operational Malfunction

**Relevant References:** AS3000-2007, AS3947.3-2001



**UNIT DETAILS**

**Make Model Type** Dynapac CC102 Rollers, Tandem Vibratory

**Identifier Assessed By Date**

Not specified  
Graeme Reid  
23-October-2014



**Preliminary Risk Rating:** MEDIUM 14  
**Risk Treatment:** Restricted Access Switches

**Residual Risk Rating:** MEDIUM 13

This item of plant is fitted with a device to restrict operators. A code/key must only be given to those that have appropriate experience or training.



**Preliminary Risk Rating:** MEDIUM 12  
**Risk Treatment:** Operator Mirrors

**Relevant References:** AS1470, AS2153, ISO13564-1.2, ISO14401.1-2009, ISO31000-2009 Risk Management

**Residual Risk Rating:** MEDIUM 11

The operator rear view mirrors fitted to this item of plant must be fully functional and kept clean at all times. There must always be at least one mirror on each side to provide rear vision to the operator to avoid striking bystanders and objects.



**Hazard(s):** Slipping  
**Preliminary Risk Rating:** MEDIUM 12  
**Risk Treatment:** Operator Work Area Access/Egress

**Relevant References:** AS1470, AS1657-1992, AS2153.1, AS2153.3, AS2153.7, AS3868-1991, ISO31000-2009 Risk Management

**Residual Risk Rating:** LOW 6

Safe access and egress to the cabin/work area(s) must be maintained at all times whilst this item of plant is in operation. It must be non slip, free from damage, located at a height so as to not cause undue body stresses and strains with three points of contact available to personnel at all times.

- All personnel must -
1. Always face the item of plant during access and egress.
  2. Always maintain three points of contact during access and egress.
  3. Never carry an object(s) in his/her hand(s) during access and egress.
  4. Never jump off machine.



**Hazard(s):** Incorrect Operation, Slipping  
**Preliminary Risk Rating:** HIGH 17  
**Risk Treatment:** Control Levers/Pedals/Buttons

**Relevant References:** AS1470, AS2153.3, AS2153.6, AS2153.7, AS4024, ISO31000-2009 Risk Management

**Residual Risk Rating:** LOW 6

All controls including all levers, buttons, pedals, switches etc. must be kept non-slip and free from damage at all times.



**Hazard(s):** Falling, Slipping, Tripping  
**Preliminary Risk Rating:** MEDIUM 12  
**Risk Treatment:** Engine Bay Access

**Relevant References:** AS1470, AS2153.7, AS3868-1991, ISO31000-2009 Risk Management

**Residual Risk Rating:** LOW 6

Safe access and egress to the engine bay/work area(s) must be maintained at all times whilst this item of plant is in operation. It must be non slip, free from damage, located at a height so as to not cause undue body stresses and strains with three points of contact available to personnel at all times.

- All personnel must -
1. Always face the item of plant during access and egress.
  2. Always maintain three points of contact during access and egress.
  3. Never carry an object(s) in his/her hand(s) during access and egress.
  4. Never jump off machine.



**Hazard(s):** Burns, Electric Shock  
**Preliminary Risk Rating:** MEDIUM 12  
**Risk Treatment:** Battery Cover

**Relevant References:** AS1470, AS4024, ISO31000-2009 Risk Management

**Residual Risk Rating:** LOW 6

All batteries fitted to this item of plant are constrained to prevent displacement & fitted with a permanent sturdy cover which allows for ventilation. The constraint and cover must be present and fully functional and serviceable at all times whilst this item of plant is in operation.



**Hazard(s):** Strains  
**Preliminary Risk Rating:** HIGH 19  
**Risk Treatment:** Controls Ergonomics

**Relevant References:** AS1064, AS1246, AS1470, AS2153.3, AS4024, HB59

**Residual Risk Rating:** LOW 5

All controls including all levers, buttons, pedals, switches etc, are placed near the operator work position and are easy to reach and operate during the execution of the operator's normal duties. This applies for all persons within the 95th percentile of the normal population distribution.



**Hazard(s):** Burns, Striking  
**Preliminary Risk Rating:** HIGH 19  
**Risk Treatment:** Hydraulic Hose Failure Shield

**Relevant References:** AS1418.1-2002 Cranes - General requirements, AS4024.1202-2006, ISO31000-2009 Risk Management

**Residual Risk Rating:** LOW 5

This item of plant is fitted with a sturdy, permanent shield(s) between the hydraulic hoses and any body parts of the operator to provide protection during a hose or component failure. This shield(s) must be present and fully functional at all times whilst this

## UNIT DETAILS

**Make Model Type** Dynapac  
CC102  
Rollers, Tandem Vibratory

**Identifier Assessed By Date**

Not specified  
Graeme Reid  
23-October-2014

item of plant is in operation.

**Hazard(s):** Collision, Poor Visibility

**Relevant References:** AS1470, AS2153, AS4024, ISO31000-2009 Risk Management



**Preliminary Risk Rating:** HIGH 22  
**Risk Treatment:** Machine Lights

**Residual Risk Rating:** LOW 5

This item of plant is fitted with self contained lighting. All of these lights must be fully functional and serviceable whilst this item of plant is in operation in areas of reduced light. If any of these lights stop working the operation must cease immediately and the faulty light be repaired before operation can continue in the areas of reduced light.

**Hazard(s):** Burns

**Relevant References:** AS1019, AS1470, AS2153, AS4024, ISO31000-2009 Risk Management



**Preliminary Risk Rating:** MEDIUM 9  
**Risk Treatment:** Exhaust

**Residual Risk Rating:** LOW 5

The engine exhaust on this item of plant is fitted with a guard to prevent injury to any person and control the risk of initiating a fire. It must be present and fully functional and serviceable at all times whilst this item of plant is in operation.

**Hazard(s):** Incorrect Operation, Slipping

**Relevant References:** AS1470, AS2153.1, AS2153.6, AS2153.7, ISO31000-2009 Risk Management



**Preliminary Risk Rating:** MEDIUM 9  
**Risk Treatment:** Operator Floor

**Residual Risk Rating:** LOW 4

All work area floors are non-slip and free from damage & debris.

Floor area must be remain non-slip and free from damage & debris, including rubbish, tools and other items, at all times whilst this item of plant is in use.

**Hazard(s):** Collision, Crushing

**Relevant References:** AS1470, AS2153, ISO31000-2009 Risk Management



**Preliminary Risk Rating:** HIGH 22  
**Risk Treatment:** Neutral Start

**Residual Risk Rating:** LOW 2

This item of plant has neutral start control in place. It must be fully functional and serviceable at all times whilst this item of plant is in operation.

**Hazard(s):** Operational Malfunction

**Relevant References:** AS1470, ISO31000-2009 Risk Management



**Preliminary Risk Rating:** HIGH 22  
**Risk Treatment:** Plant Modification

**Residual Risk Rating:** LOW 2

The plant is in original condition.

**Hazard(s):** Strains

**Relevant References:** AS1470, AS2153.1, AS2153.2, AS2153.6, AS2153.7, AS2953, ISO31000-2009 Risk Management, ISO3691-1980



**Preliminary Risk Rating:** MEDIUM 9  
**Risk Treatment:** Operator Seat

**Residual Risk Rating:** LOW 1

The operator seat fitted to this item of plant must remain free from damage and tears, and be permanently and securely fitted at all times.

## Maintenance

**Hazard(s):** Incorrect Operation

**Relevant References:** AS1470, AS2153, ISO31000-2009 Risk Management



**Preliminary Risk Rating:** HIGH 22  
**Risk Treatment:** Maintenance Manual

**Residual Risk Rating:** MEDIUM 15

The manufacturer's maintenance manual(s) has been supplied for this item of plant

These manual(s) must be available at all times to all users and maintenance staff of this item of plant. All users and maintenance staff must read and be familiar with these handbook(s) prior to maintaining or repairing this item of plant.

A complete risk assessment/JSEA must be undertaken covering all inspection, maintenance, servicing and transportation requirements of this piece of plant prior to use.

A full assessment of the competence of people using the book(s) must also be undertaken

**Hazard(s):** Operational Malfunction

**Relevant References:** AS1470, ISO31000-2009 Risk Management



**Preliminary Risk Rating:** HIGH 21  
**Risk Treatment:** Service Records

**Residual Risk Rating:** MEDIUM 15

Service and maintenance records are available for this item of plant.

These records must continue to be maintained and stored in a secure area as part of your plant safety management programme. This programme includes the undertaking of regular inspections concerning the general condition of the item of plant including (but not limited to) tyre condition, oil levels and wear and tear on critical items such as brakes and steering, etc. All OEM prescribed, scheduled and non scheduled maintenance must also be documented as part of these records and attended to within

## UNIT DETAILS

**Make Model Type** Dynapac  
CC102  
Rollers, Tandem Vibratory

**Identifier Assessed By Date**

Not specified  
Graeme Reid  
23-October-2014

a risk management framework.

**Hazard(s):** Crushing

**Relevant References:** AS1470, AS1636, AS2294, ISO31000-2009 Risk Management



**Preliminary Risk Rating:** HIGH 22  
**Risk Treatment:** ROPS Damage

**Residual Risk Rating:** MEDIUM 15

The Roll Over Protective Structure (ROPS) fitted to this item of plant must remain free from damage at all times whilst this item of plant is in operation.

**Hazard(s):** Burns, Striking

**Relevant References:** AS2550, AS2671-2002, ISO31000-2009 Risk Management, ISO4413-1998



**Preliminary Risk Rating:** HIGH 22  
**Risk Treatment:** Hydraulic Damage

**Residual Risk Rating:** MEDIUM 15

The hydraulic hoses to this item of plant are free from damage and protected against damage arising from contact with the plant structure. Ensure that hoses are free from damage and that protection is in place at all times whilst this item of plant is in operation. Inspection of the hydraulic hoses and protection system should be conducted regularly and documented as part of your plant safety programme.

**Hazard(s):** Collision, Instability

**Relevant References:** AS1470, ISO31000-2009 Risk Management



**Preliminary Risk Rating:** HIGH 22  
**Risk Treatment:** Tyres

**Residual Risk Rating:** MEDIUM 15

The tyres and wheel components must be inspected as part of a "pre start" checklist. These inspections must be documented as part of your plant safety programme.

**Hazard(s):** Current or previous structural damage

**Relevant References:** AS1470, ISO31000-2009 Risk Management



**Preliminary Risk Rating:** CRITICAL 25  
**Risk Treatment:** Structural Integrity

**Residual Risk Rating:** MEDIUM 15

Regular checks for structural damage must be undertaken. Look for cracks in frames/chassis (current or repaired), bends or damage to structural components, etc.

**Hazard(s):** Collision, Crushing

**Relevant References:** AS1470, AS2958, ISO31000-2009 Risk Management



**Preliminary Risk Rating:** CRITICAL 25  
**Risk Treatment:** Brakes

**Residual Risk Rating:** LOW 2

The brakes fitted to this item of plant must be fully functional at all times whilst this item of plant is in operation. The brakes must be regularly inspected and tested. These inspections and tests must be documented as part of your plant safety programme.

**Hazard(s):** Operational Malfunction

**Relevant References:**



**Preliminary Risk Rating:** HIGH 22  
**Risk Treatment:** Major Fluid Leaks

**Residual Risk Rating:** LOW 2

This item of plant must remain free from major and minor leaks at all times whilst in operation (this includes engine, transmission, cooling system, air, fuel, drive line, wheel hubs, steering and hydraulics). Development of a major leak will require this item of plant to be stood-down until repaired. Minor leaks detected must be repaired within 1-14 days.

## SECTION 5 IMAGES AND DOCUMENTS

### NOTES

### IMAGES

There are no images

<END OF RISK ASSESSMENT REPORT>



## RISK MANAGEMENT REPORT

**Report Number** DYNA 20141023-1126  
**Date Created** 23-October-2014  
**Created By** Graeme Reid  
**Date Completed** 23-October-2014  
**Assessed By** Graeme Reid  
**Company** Dynapac Australia Pty Ltd  
**Make** Dynapac  
**Model** CC102  
**Type** Rollers, Tandem Vibratory  
**Identifier** Not specified  
**Identifier 2**  
**Location**  
**Lot Number**  
**Assessment Purpose** Hire  
**State** QLD

## OPERATOR ACKNOWLEDGEMENT

I the undersigned acknowledge that I have read and understand the risk management report described above.

I also acknowledge that I have received a copy of this risk management report.

Name \_\_\_\_\_

Company Name \_\_\_\_\_

Position \_\_\_\_\_

Signature \_\_\_\_\_ Date \_\_\_\_\_

The manufacturers' operational & maintenance handbooks have been supplied, \_\_\_\_\_ (initial) (please tick one)  
Yes   
No