



OPEN SPACE SERVICES

JULY 26, 2020

CAMBRAI OS & P PARK

MID MURRAY COUNCIL

Playground Audit



Table of Contents

DISCLAIMER..... 2

PREAMBLE 2

Certificate of Audit..... 5

Consulting Services to Mid Murray Council..... 5

Date and time of audit 5

Certification with Outstanding's..... 5

RISK MATRIX 1

 COMPREHENSIVE ANNUAL INSPECTION 3

Gazebo and BBQ..... 6

 Equipment Number: CPP-1..... 6

 OPERATIONAL INSPECTION 7

Main Play Area 9

 Equipment Number: GPP-3 9

 Equipment Number: GPP-4 9

 Equipment Number: GPP-5 9

 OPERATIONAL INSPECTION 10

 FREE HEIGHT OF FALL AND FALLING HEIGHT..... 13

Softfall..... 13

Ancillary Items 14

 Equipment Number: CPP - 6..... 14

 Equipment Number: CPP - 7..... 14

 Equipment Number: CPP - 8..... 14

 Equipment Number: CPP - 9..... 14

 OPERATIONAL INSPECTION 15

Completion Criteria 17

DISCLAIMER

Whilst care has been taken to ensure the accuracy of the information provided in this report, Open Space Services and its employees, take no responsibility for any errors, omissions or changes to information that may occur and disclaim all responsibility and liability to any person in respect to anything done or omitted to be done in reliance upon information within this publication.

PREAMBLE

This report assesses the nominated play space against the relevant Australian Standards listed below.

Australian Standard AS 4685

Playground Equipment and Surfacing

Part 0: Development, installation, inspection, maintenance and operation

Part 1: General safety requirements and test methods

Part 2: Particular safety requirements and test methods for swings

Part 3: Particular safety requirements and test methods for slides

Part 4: Particular safety requirements and test methods for cableways

Part 5: Particular safety requirements and test methods for carousels

Part 6: Particular safety requirements and test methods for rocking equipment

Part 11: Particular safety requirements and test methods for spatial networks

Australian Standard AS 4422

Playground surfacing

Specifications, requirements and test methods

Marking

Individual play equipment structures are to be permanently marked with a plate clearly identifying the name, address, the equipment reference and year of manufacture and a base level mark for the associated impact attenuating surface. In addition, equipment stating compliance with the Australian Standards must be marked. Equipment not marked by the manufacturer will have an allocated serial number supplied, some equipment will have the same manufacturers number for all equipment, this too will receive an individual serial number for each piece of equipment, this will allow for easier identification

Access, Entrance and Surrounds

Playgrounds should have clear access for pathways and supervision without trip hazards, sharp protrusions or weeds. Rubbish bins, water bubblers and seats should be inspected regularly to ensure working order.

Free Height of Fall

The free height of fall must not exceed 1800mm for Supervised Early Childhood Settings and 3000mm for All Age Settings. The free height of fall is the greatest vertical distance measured from the intended body support of the equipment to the impact area below.

Fall zone

A minimal fall zone of 1500mm is required around equipment that have a height 600mm (with fall heights of more than 600mm above ground level) and between individual items of equipment. An increase in the falling space/impact area for equipment with platforms measuring more than 1500mm above ground level.

Falling spaces for specific equipment items with forced movement such as slides, swings and carousels. The falling space/impact area for equipment with forced movement cannot overlap with other falling spaces/impact areas.

Surfacing

Surfacing to Australian Standards 4685.0:2017 be provided across the falling space/impact area where play equipment provisions are more than 600mm above ground level.

Finish of Equipment

Equipment shall have no protruding nails, bolt threads, projecting wire rope terminations, pointed or sharp ended components. Surfaces are finished smooth with no splintering. All playground equipment should be structurally stable, in good condition and fit for children's play.

Protection Against Falling

Guardrails/barriers to be installed for heights of more than 600mm above ground level of intended use. Continuous handrails are required on each side of access ways and bridges. All items intended for gripping must have a diameter that measures between 16mm-45mm.

Head and Neck Entrapment

Head and neck entrapment refer to any opening at a height of more than 600mm above ground level that would allow a child's body to pass through but not their head. This can result in death or serious permanent injury. AS 4685 states that bound head and neck entrapment (dimensions of 89mm – 230mm), partially bound and V-shaped openings, shearing or moving openings (flexible and rigid parts with openings less than 230mm) must be avoided. It is therefore critical that any head entrapment hazards are eliminated immediately.

Clothing/Hair Entrapment

Toggle/clothing entrapment refers to situations where parts of clothing/hair may become trapped and may lead to serious or fatal injury.

Foot Entrapment

Foot entrapment refers to situations where gaps greater than 30mm present on surfaces inclined up to 45° intended for running/walking, completely bound rigid openings in surfaces for running/climbing.

Finger Entrapment

Finger entrapment refers to any opening that would allow a child's fingers or thumbs to be trapped in a fall situation and can be responsible for traumatic long-term injury. Gaps or openings with dimensions of 8-25mm at 1000mm or more above playing surface level must be eliminated.

Means of Access

Equipment is designed to provide safe ascent or descent. Means of access include steps, stairs, ladders and ramps. The equipment shall be designed to ensure that adults are able to gain access to assist children within the equipment.

Natural Playspaces

Natural play elements incorporated into a playground. Where this cannot be applied, a risk benefit assessment may be required to determine the suitability of such elements. A natural habitat will attract wildlife. Ensure that an inspection of the playspace is conducted before children enter. Regular maintenance to remove debris and weeds is recommended.

Documentation

The playground owner/operator must ensure that a Playground Safety Management System is established to include the recording and archiving of documentation.

Documentation to be archived includes:

- Policies and procedures
- Reports e.g. accident/injury
- Inventory/Equipment register
- Inspection checklists
- Works orders
- Maintenance actions
- Certification records e.g. equipment, surfacing
- Manufacturer's warranty details
- Manufacturer's installation, inspection and maintenance instructions
- Operating Instructions (if applicable)

Maintenance

Routine maintenance checks to be conducted on a regular basis. These include the inspection of all timber, wear and tear on chains, condition of all play items (cracks, corrosion, graffiti, etc), and insect infestation.

All maintenance schedules should be collected from suppliers of equipment and resources made available to meet the requirements of the maintenance schedule. Regular inspections are required. Timber components will require regular sealing and fixtures will require tightening. It is crucial that regular inspections and prompt repairs be carried out to ensure the safe upkeep of play facilities.

Please Note: The standards are not law and are intended as a guide to safety within playgrounds.

Certificate of Audit



22 Egret place
Hewett SA 5118

Consulting Services to Mid Murray Council

Date	Services Performed By:	Services Performed For:
July 26, 2020	Open Space Services 22 Egret place Hewett SA 5118	Mid Murray Council Cambrai OS & P Park

This Certificate of Playground Auditing Summary is issued pursuant to the Australian Standards between Mid Murray Council (“Client”) and Open Space Services (“Contractor”), effective July 26, 2020

Note: If there is no serial number, the date plate will be used as the serial number with a sequence number attached if more than one date plate. If no serial number exists, one will be allocated to it.

- | | | |
|---------------|---------------|---------------|
| SN: GCR - 001 | SN: GCR - 006 | SN: GCR - 011 |
| SN: GCR - 002 | SN: GCR - 007 | SN: GCR - 012 |
| SN: GCR - 003 | SN: GCR - 008 | SN: GCR - 013 |
| SN: GCR - 004 | SN: GCR - 009 | SN: GCR - 014 |
| SN: GCR - 005 | SN: GCR - 010 | |

Date and time of audit

The Services commenced on July 26, 2020, and shall continue through July 26, 2021. Until complete

Certification with Outstanding’s

Certifying Auditor: Barry Rolton – Open Space Services

Defects outstanding: Defects corrected: Date:

Remedial works outstanding: ...10..... Works completed: Date:

Outstanding remedial and defects completed by (Signature)





Certified safe to use with all works signed off from 3 months of date of signature:

Certifying Auditor sign off:..... Date:.....

RISK MATRIX

This report is a comprehensive Inspection Audit Report on the Riverton Primary School Playground located at the oval which is owned by the school. The audit was completed in accordance with the current Australian Standards for Playground Equipment. This document and its attachments are designed as part of the standard of care to identify the current condition of the playground equipment and the surrounding environment. The purpose is to identify any non-conforming conditions in accordance to the current Australian Standards:

		CONSEQUENCE				
		LITTLE OR NO INJURY	MINOR INJURY REQUIRING FIRST AID	MODERATE INJURY CAUSING ABSENCE FROM SCHOOL	SERIOUS INJURY WITH LONG TERM CONSEQUENCES	DEATH OR DISABILITY
LIKELIHOOD	RARE (Highly unlikely event)	LOW	LOW	LOW	LOW	LOW
	UNLIKELY (Conceivable event)	LOW	LOW	LOW	MEDIUM	MEDIUM
	POSSIBLE (Could occur event)	LOW	LOW	MEDIUM	MEDIUM	HIGH
	LIKELY (Almost certain event)	LOW	MEDIUM	MEDIUM	HIGH	HIGH
	ALMOST CERTAIN (Will occur event)	LOW	MEDIUM	HIGH	HIGH	UNACCEPTABLE RISK

	Low is the risk related to all other areas of the inspection, this does not require any works. Low is given rather than “No Risk” as there may be a risk that is unknown such as when the equipment gets hot, it could burn a toddlers skin.
	A medium risk is most likely to apply to top ups of loose fill top ups where the level has dropped as far as 200mm. This risk has the three month completion date and starts from the time of inspection.
	A risk assessment of high does have to be rectified or reach a risk assessment of low. This will usually take no longer than one month from the date of receiving the report.
	Any items or works under this risk assesment needs to be carried out as soon as possible or the item needs to be bunted off if iminant injury is possible.

Priority Rating

There are 4 priority rating

- Low** Minor problem, action should still be carried out in the next 12 months
- Medium** Indicates attention required within 2-3 months
- High** Indicates immediate attention required
- Urgent** Make safe, bunt off asap

General inspection of Play equipment and general area

On arrival, a general inspection is required for both safety and to identify the area and how it is generally utilised. This is also a requirement for risk assessment that was supplied at the time of quotation.

VISUAL INSPECTION		
Play Equipment	Findings	Rating
Debris in the playground that may be hazardous, such as broken glass, needles or animal fouling.	The playground is clean with no areas of debris.	LOW
Loose-fill surfacing levels that are at inadequate levels.	The area beneath the swings main play equipment is an average of 100mm and will require a top up	MEDIUM
Damage to unitary surfacing	No, synthetic surface within this playground.	LOW
Equipment that is broken or missing as a result of use or vandalism.	The two upright end caps of the tandem long swing are lose and will require new fixtures. There is a broken slat on the gazebo	MEDIUM
Graffiti.	No graffiti was seen	LOW
The condition of ancillary items, such as barbecues, tables, rubbish bins, etc.	The overall condition of all ancillary items is of expected average condition, some are new and some are older,	LOW
Dead or damaged overhanging branches that may potentially fall onto the playground.	No trees are overhanging in a way that would be a risk.	LOW
Comments		
Refer to individual assessments for required work.		

COMPREHENSIVE ANNUAL INSPECTION

A comprehensive annual inspection requires the checking of all items listed in Clause 8.5.4, and 8.5.3., this inspection is intended to determine conformance with the relevant parts of AS 4685 and to establish the overall level of safety of the equipment.

Items to be assessed: (Hazards)	Assessment responses			Assessment review	Rating
	Yes	No	N/A		
SURFACING					
Is the playground free of concrete, asphalt or other non-impact absorbing material under play equipment? (Any hard surface should be removed and replaced with an impact-absorbing surface when fall height is greater than 600mm.)	Yes			All areas that require softfall have softfall.	LOW
Loose-fill material					
Is there adequate drainage to prevent rotting?	Yes			The area is mostly flat but the soil is free draining with no obvious areas of pooling awater	LOW
Does it extend at least 1.5m from all equipment that is less than 1.5m in height, or 2.5m from equipment that is up to 3m in height?	Yes			All equipment has the proper free fall ratings required.	LOW
Is the loose-fill surface material checked regularly to ensure a depth of at least 30cm? (Use a tool to dig down.)			N/A	Unknown maintenance routine	
Is it raked regularly to check for hygiene and foreign objects that may cause injury?			N/A	Unknown maintenance routine	
Are the borders enclosing the loose-fill surfacing secure?	Yes			All loose fill areas have boarders.	LOW
EQUIPMENT					
<i>Platforms, structures and frames</i>					
Is the maximum height from which the user can fall 3m for general equipment, 2.2m for upper body equipment (e.g. jungle gym) or 1.5m for early childhood center's?	Yes			Highest platform is 1400 mm and upper body	LOW
Are all structural foundations free of movement, checked for wear and below ground level?	Yes			All structures were free of movement.	LOW
Are all structures free of rot or corrosion and have no missing		No		Flake rust is showing in the lower uprights of the flying fox..	MEDIUM

parts, panels or fittings? <i>(Check that plastic equipment is sound and free of cracks and deterioration from the sun.)</i>					
Are all components designed to prevent water entering enclosed areas and free of deterioration? <i>(Check cap ends, grommets, on bolts or screws.)</i>	Yes			All caps and grommets are in place.	LOW
Are all components free of corrosion and bulging and all nails and fixings flush with surface or countersunk?		No		All components are free of corrosion, the uprights have Flake rust and the platforms wear areas have surface rust.	MEDIUM
Are all bolts and fasteners secure?	Yes			All bolts and fasteners were secure	LOW
Are all exposed protrusions and sharp edges removed? <i>(Check for protruding nails, rivets and bolts, which may need to be covered or sawn off.)</i>	Yes			There are no sharp edges and all items are as they were installed	LOW
Are platforms and other standing surfaces free of moss, mold and other unhygienic matter that may cause corrosion or slipping?	Yes			All platform surfaces are free of matter and is clean.	LOW
Are all guardrails and barriers around decks and platforms secure, free of sharp edges and small enough for a child's grip?	Yes			All platforms are within specification	LOW
Are the covers or guards which conceal pinch, crush or entrapment points well maintained?	Yes			The playground is a design that has very few guards.	LOW
Are all parts of each piece of equipment such as links, chains and fasteners, secure and not excessively worn? <i>(Check for empty bolt holes, loose pieces of chain and S hooks not tightly closed. Replace pieces if wear is noticeable. Look at specific pieces of equipment such as swings and swinging bridges.)</i>		No		The upright end caps on the long swing needs replacing.	MEDIUM
Has the equipment been lubricated where necessary?			N/A		

Are all access ramps and entrances to the equipment free of slipping and tripping hazards?	Yes			All entry and access are free of any trip or fall components.	LOW
Are all access and entrance points to the playground and equipment free of exposed protrusions and sharp edges?	Yes			All entry and access are free of any trip or fall components.	LOW
Are all entrapment points eliminated? (Check for any narrow openings, "V" shaped gaps or sharp angles hooks or protrusions, which could trap a child's head or limb.)		No		The age of the equipment has components that were in spec when installed, they are now not within the Australian Standards and considered hang points on the guard rails	MEDIUM
Are all steps, ladders, guardrails and nets large enough to let a child get their body right through?	Yes			All areas are compliant	LOW
Is there enough space between equipment so that children can move freely between areas without bumping or running into each other?	Yes			There is ample room for children to interact while equipment is being used, the areas between have no restrictions.	LOW
Is the playground set out to allow for unobstructed supervision?	Yes			The playground items are can be seen from observation areas close to the play equipment.	LOW
Are pathways around the playground clear of hazards? (Check for cracks, subsidence, jagged edges and signs of poor drainage such as puddles.)	Yes			Most of the edging material is turfed or Hardstand which is all safe to transverse.	LOW
Is the playground environment in good condition and free of rubbish? (Check playing fields and concrete areas.)	Yes			The whole park is clean and tidy.	LOW
Comments					

Gazebo and BBQ

Equipment Number: CPP-1



OPERATIONAL INSPECTION

OPERATIONAL INSPECTION		
Play Equipment	Findings	Rating
Excessive wear of moving parts (including chain links).	No moving parts	LOW
Any protrusions and sharp edges.	No sharp edges or protrusions were found.	LOW
Are all bolts and fasteners secure?	The lid of the BBQ has been bent and will require new rivets.	MEDIUM
Are there any entrapments, hang points or catch points on any of the equipment?	No hang points or entrapment was found.	LOW
The structural adequacy and/or stability of all playground equipment including ancillary items. NOTE: Equipment that relies on a single anchor or attachment point should be carefully inspected.	The structural stability is acceptable on the item.	LOW
Excessive corrosion, particularly within structural members.	No corrosion was found on the equipment.	LOW
Impact and attenuating edges of swing seats, pommels and other moving equipment that can impact users.	All edges were as designed with no areas of concern.	LOW
Trees for potential hazards. NOTE: This may require the skills and competencies of a professional arborist.	No trees impact this area.	LOW
Are chain links or gap areas greater than 12mm or less than 8.6mm	No chains on this piece of equipment.	LOW
Are all structural attachments affixed tightly to their respective anchor points and attachment points sound with no wear or pull out from fixture points?	One board is broken and will require replacement.	MEDIUM
Comments		

The three bench seats located inside the gazebo are all sound with no loose boards and are securely affixed to the concrete. There's not a lot of corrosion a little bit of surface rust but nothing that requires attention at this time. The central table is secured with no areas of movement within the planks. The planks around the walls of the gazebo all look to be secured soundly except one board facing the main road that has been broken and has a section missing. Overall, the gazebo is in good condition and does not pose a risk within this playground area.



The barbecue looks quite new and does not have any damage within the hour to cover, the holder for the lid has been damaged where it looks like it's been pulled down without being released properly and the pop rivet has almost been pulled out. This is only a minor problem and has most likely been picked up in audits before me anyway. The Barbecue is functional and starts and heat up straight away.



Main Play Area

Equipment Number: GPP-3

Equipment Number: GPP-4

Equipment Number: GPP-5



OPERATIONAL INSPECTION

OPERATIONAL INSPECTION		
Play Equipment	Findings	Rating
Excessive wear of moving parts (including chain links).	Minor wear on the platforms with some surface rust	MEDIUM
Any protrusions and sharp edges.	No sharp edges or protrusions were found.	LOW
Are there any entrapments, hang points or catch points on any of the equipment?	Hang points were found due to the main play structure being of the old standard, replacement will be required when needed.	LOW
The structural adequacy and/or stability of all playground equipment including ancillary items. NOTE: Equipment that relies on a single anchor or attachment point should be carefully inspected.	All uprights were sound and had no movements.	LOW
Excessive corrosion, particularly within structural members.	There are several areas of rust which will need attention, the flying fox will require treatment to slow the progression of rust.	MEDIUM
Impact and attenuating edges of swing seats, pommels and other moving equipment that can impact users.	All edges were as designed with no areas of concern.	LOW
Foundations for exposed concrete, rot and corrosion.	No exposed concrete was found and no base corrosion was identified.	LOW
Trees for potential hazards. NOTE: This may require the skills and competencies of a professional arborist.	No trees impact this area.	LOW
Are chain links or gap areas greater than 12mm or less than 8.6mm	No chains on this item of equipment	LOW
Are all structural attachments affixed tightly to their respective anchor points and attachment points sound with no wear or pull out from fixture points	The grab handles on the main play equipment at one end are loose and will require tightening.	MEDIUM
Comments		

The overall condition of this piece of equipment is quite good it does not look like there has been much use as there is low wear within all of the components. The boards on the bridge are all sound and affixed to the railing, there is very little markings on the platforms and all fixtures are firmly adhered to the Main frame. The slide has areas of toggle catchment creating hanging points between the blue upright beams the platform on both sides, this is part of the design before it was recognised that the toggles were a problem. The railing has proper closure within the centre's however the end rail of each end is considered a hang point as the gap is too wide and allows for the torso probe to be passed through but not the little head probe. This is on all the square yellow barriers and not me yellow bridge barrier. The grab handles are also two wide but they are small and it would be very difficult for a young child to get up onto them and actually pass through the grab rail's however it is a non-compliant issue, some of the end grab handles near the council office will need tightening, most of the others will not require tightening. The soffall areas around this piece of equipment are between 50 and 200 mm the area at the run out of the slide is too shallow and will need to be bought up at least 200 mm to get the 300 mm regulated height. The uprights around this area do you not show areas of flake rust and the powder coat is solid down to the concrete face



CPP - 3

Some flake rust is starting to occur in the uprights, the handle is missing plastic but overall is still in good condition, the running gear is in good condition, the platforms have surface rust and should be painted.



CPP - 4

The two upright end caps are not affixed and need re-riveting, the "S" hooks are 25% worn and don't need replacing. Softfall is down to 50mm in places and will require top up, No flake rust on the uprights.



CPP - 5

FREE HEIGHT OF FALL AND FALLING HEIGHT

This is the greatest vertical distance from the clearly intended body support to the impact area below

NOTE* the intended body support includes those surfaces to which access is encouraged.

The parts of the play equipment that these include are any platform structure from 600mm and above. In nature play areas; this uses the same height range for impacts.

Platform or Structure	Height	Softfall depth	Rating
Height from platform 1	800mm	100mm	MEDIUM
Height from platform 2	800mm	100mm	MEDIUM
Height from platform 3	1100mm	100mm	MEDIUM
Height from platform 4	1400mm	100mm	MEDIUM
Height from both landing platforms on flying fox	500mm	50mm	MEDIUM
Flying fox upper body support height	1200 (2200)	50mm	MEDIUM

Softfall

Mostly all the loose chip softfall is between 50 mm and 100 mm deep softfall need to be topped up usually a minimum 200 with a 100 mm layer for the composition.

Ancillary Items

Equipment Number: CPP - 6

Equipment Number: CPP - 7

Equipment Number: CPP - 8

Equipment Number: CPP - 9



OPERATIONAL INSPECTION

OPERATIONAL INSPECTION

Comments

This seat is securely affixed to the ground with no movement in the frame or the wooden beams



This seat is securely affixed to the ground with no movement in the frame or the wooden beams



This feature has been fenced to stop people from using it as a climbing item



At the front gate, the fence attachment is missing from the top crossmember of the fence, the fence can be moved and could easily be broken off if moved too far.



Completion Criteria

The twelve-monthly audit undertaken by Open Space Services provide the following summary in regards to condition of the Play Equipment and summary of outstanding defects.

Serial Number of Play Equipment: **CPP - 1**

- Replace one broken plank facing the road **Remedial**

Serial Number of Play Equipment: **CPP - 2**

- Lid hinge on the BBQ has been damaged and needs riveting. **Remedial**

Serial Number of Play Equipment: **CPP - 3**

- Loose handrails on one end needs tightening **Remedial**
- This equipment is not to current AS specification but is in good condition, replace when needed.
- Softfall needs to be topped up, too low in places. **Remedial**

Serial Number of Play Equipment: **CPP - 4**

- Flake rust in main uprights, treat with kill rust to slow the rusting **Remedial**
- Surface rust on platforms, treatment needed to slow the rusting **Remedial**
- Softfall needs to be topped up, too low in places. **Remedial**

Serial Number of Play Equipment: **CPP - 5**

- Two of the upright end caps need fixtures replaced **Remedial**
- Softfall needs to be topped up, too low in places. **Remedial**

Serial Number of Play Equipment: **CPP - 6**

- No work required

Serial Number of Play Equipment: **CPP - 7**

- No work required

Serial Number of Play Equipment: **CPP - 8**

- No work required

Serial Number of Play Equipment: **CPP - 9**

- Replace end fixture on fence. **Remedial**