



# BARCALDINE REC PARK

## OPERATIONS MANAGEMENT PLAN

December 2021

**DOCUMENT CONTROL**

**Barcaldine Rec Park Operations Management Plan**

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## **PART 1 OPERATIONS MANAGEMENT PLAN**

### **1 INTRODUCTION**

#### **1.1 Background**

The Barcaldine Rec Park (Park) was constructed by Barcaldine Regional Council (Council) to provide a water-based recreation park for Barcaldine and the region. The idea was initially proposed by the Barcaldine community and confirmed in community consultation carried out by Council for its Sport, Recreation and Open Spaces Plan 2010 and Community Plan 2013.

In 2018 Council, with support from the Queensland Government, invested in the Park project. A Development Application (DA491718) was submitted to Council proposing development of the Park consisting of a lake (Lake) and areas for land-based recreational activities.

Feasibility studies were conducted to determine suitability of the site for the proposed activities and issues required to be addressed prior to approval of the Park. A Development Consent was provided on 10 January 2019 to commence the Park project.

Construction of the Lake commenced in 2019 and was completed in 2021 with artesian water filling the Lake.

#### **1.2 Purpose**

This Operations Management Plan (OMP) addresses the ongoing operation, maintenance and management of the Park. In so doing, it supports Council's commitment to provide opportunities for residents and visitors that encourage active recreation, healthy lifestyles and general wellbeing.

#### **1.3 Objectives**

The primary objectives of the OMP are to provide:

- Enhanced health and wellbeing activities for the Barcaldine region
- Increased range of water-based recreation and sports activities
- Opportunities to host water-based tournaments
- Economic and tourism opportunities for local and regional businesses.

#### **1.4 Structure of operations management plan**

The OPM provides an umbrella framework for several management plans, each focused on different aspects of managing Park operations and maintenance. Each plan is presented as a distinct structured part of the document. This format was selected as each plan shares common document components (introduction, general administration, governance, location, Park details, water supply, etc.) and is intended to provide a single resource source of information.

The management plans comprising this stage of the OMP collectively are:

1. Part 1 – Park Management Plan (PMP)
2. Part 2 – Water Quality Management Plan (WQMP) (internal only)
3. Part 3 – Operation Environmental Management Plan (OEMP) (internal only)
4. Part 4 – Emergency Response Plan (ERP) (internal only)
5. Part 5 – Water Sampling Plan (WSP) (internal only)
6. Part 6 – Signage Plan (SP) (internal only)

All parts of the OMP can be read and construed together so that all parts are as far as possible consistent. The document can also be expanded as additional parts are identified and developed.

The purpose of this Part 1 is to provide overarching introduction, Park details, general operations and management, access and use requirements and common forms.

## **2 GOVERNANCE**

### **2.1 Statutory**

The Park is administered principally by the following statutory documents:

- *Environmental Protection Act 1994 (Qld)* and subordinate legislation
- *Public Health Act 2005 (Qld)* and subordinate legislation
- *Water Supply (Safety & Reliability) Act 2008* and subordinate legislation
- *Occupational Health and Safety Act 2011 (Qld)* and subordinate legislation
- Barcaldine Regional Council Local Laws
- Barcaldine Regional Council Development consent (DA491718)

Currently in Queensland, there is no specific regulation of recreational water quality at natural waterbodies, such as lakes, rivers and ocean beaches. Therefore, it is essential that measures to prevent or respond to environmental and public health risk/s are implemented and maintained to ensure that the Lake provides a safe environment for users.

Under section 11(b)(iv) of the *Public Health Act 2005*, water that is likely to be hazardous, able to contribute or transmit disease or an infectious condition to humans may be defined as a public health risk. Section 18 of the *Public Health Act* defines that a public health risk is administered and enforced by the local government. Section 377(2) of the *Public Health Act* makes provision for a local government to delegate an appropriately qualified and experienced employee as an authorised person to administer and enforce a public health risk.

A preventive risk management approach to water quality was used in accordance with the National Health and Medical Research's *Guidelines for Managing Risks in Recreational Water* (NHMRC Guidelines) to address public risks potentially associated with the Lake.

The NHMRC Guidelines are non-mandatory standards designed to protect the health of humans from threats posed by the recreational use of coastal, estuarine and freshwaters. This includes natural and artificial hazards. These guidelines provide a best-practice, hands-on, practical approach to help those managing recreational water quality.

Implementing the NHMRC Guidelines' preventive risk assessment approach to water quality monitoring demonstrates Council's duty of care to take appropriate environmental and public health measures that provide a safe environment for recreational use of the Lake.

### **2.2 Local laws**

Council has authority under the *Local Government Act 2009 (LGA)* to make any local law that is necessary or convenient for the good rule and local government of its area.

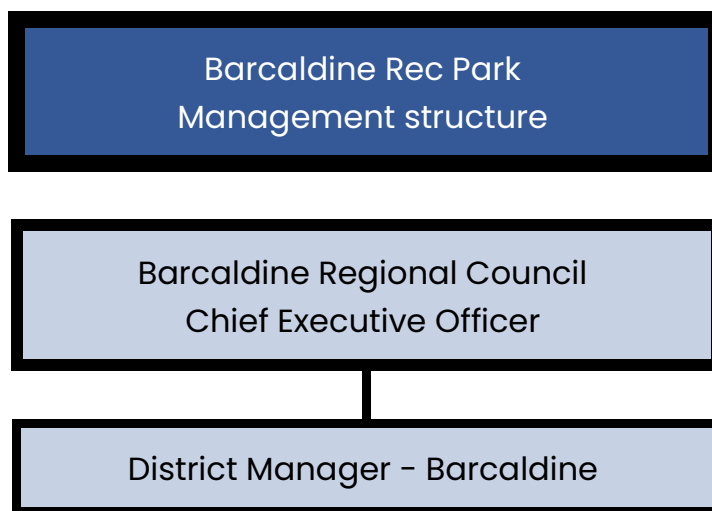
Council's Local Law No. 4 (*Local Government Controlled Areas, Facilities and Roads*) 2011 is designed to be sufficiently broad and flexible to provide for, in conjunction with the Local Law No.1

Administration 2011 and the LGA, the regulation of access, activities and behaviours on a widerange of local government-controlled areas within one model local law. Included in this local law are activities such as parks and reserves, foreshores and jetties.

Section 20 of Local Law No.1 Administration 2011 makes provision for a local government to delegate an appropriately qualified and experienced employee as an authorised person to administer and enforce the local laws.

**2.3 Park management structure**

The Park management structure is illustrated in Figure 1.



**Figure 1 Barcaldine Rec Park Management Structure**

Table 1 below defines the roles and responsibilities for each member of the Park Management structure.

**Table 1 Role and Responsibilities**

**Chief Executive Officer**

- Overall accountability for satisfactory operations of the Park.

**District Manager - Barcaldine**

- Coordinate implementation and compliance with provisions of the OMP, associated Management Plans and statutory requirements.
- Coordinate Park operations and maintenance of the assets.
- Oversee Park activities and events.
- Ensure that required activities noted in the OMP are effectively and efficiently carried out such as responding to issues, site inspections, monitoring, reporting and auditing.
- Oversee environmental, public health and other incident investigations and implementation appropriate corrective action.
- Ensure that the community is kept informed regarding Park activities and events.
- Ensure training requirements are identified and provided for relevant employees, contractors, workers and volunteers such as inductions and safety management.
- Ensure that employees, contractors, workers and volunteers comply with the OMP requirements relevant to their scope of work and are aware of measures to be implemented
- Coordinate and resource the audit, review and updating of the OMP and associated Management Plans.

### **3 GENERAL MANAGEMENT**

#### **3.1 Induction**

Any person undertaking work at the Park (including employees, contractors, workers and volunteers) is required to undertake a site induction prior to commencing work on the Park.

The induction should refer to the following information:

- A general understanding of the Park, site-specific environmental and public health hazards
- Understanding of responsibilities to quality, safety and the environment
- Controls implemented to minimise the likelihood of environmental harm and public health risks
- Carrying out activities with as little environmental impact as possible
- General organisational structure and responsibilities
- Communication procedures
- Incident and complaint procedures, reporting and record keeping
- Appropriate site emergency preparedness and response processes.

A register of inducted personnel must be maintained, which must include at a minimum, date of induction, name of the inducted person and elements of the induction delivered. Copies of the induction, training records and signatures of inductees must be retained for audit purposes in the records management system.

#### **3.2 Training**

Employees should be adequately trained and qualified to carry out work activities at the Park and Lake, which should include the following:

- Asset / equipment monitoring and maintenance
- Routine inspections of the site and assets
- Physical protection measures such as chemical and field safety equipment
- Incident and emergency response procedures for discovery, management and actions
- Standard operating procedures
- Best practice facility management
- Safety management - general health, safety and wellbeing.

Employees nominated to carry out water quality monitoring and sampling activities must be suitably qualified, trained and experienced in water quality monitoring.

#### **3.3 Safety management**

BRC is obliged to provide and maintain, where practicable, an environment for its employees, contractors, volunteers and the public, that is safe and without risk to health and safety. However, this process involves active involvement of everyone to identify and exercise all reasonable and necessary precautions for the health and safety of all persons.

Safety management is a major issue that needs to be carefully considered when implementing the OMP and other Management Plans. Consulting and discussions with employees involved in this process should be an ongoing regarding the broad scope of health, safety and wellbeing matters.

Compliance with safety management requirements can be demonstrated in several ways including ensuring appropriate personal protection equipment (PPE) attire is worn which, at a minimum, include but not limited to safety shoes, a broad brimmed hat, long sleeves and trousers for outdoor



workers. Natural ultraviolet radiation is considered a hazard requiring suitable controls.

### **3.4 Risk management team**

A Park and Lake risk management team lead by the District Manager Barcaldine and composed of multi-disciplinary members including key BRC operational employees and community volunteers is suggested to provide review and input into the Management Plans incorporated in this OMP. Responsibilities of the team can be:

- Provide guidance on hazards identification, risk assessment and management of the Park and Lake activities
- To evaluate factors contributing to efficient and effective implementation of Park and Lake activities and develop recommendations for continuous improvement
- Provides an overview of the organization's risks/opportunities and ensures compliance with their risk management process.
- Support a consistent process to integrate a focus on environment, safety and quality management, wellbeing and risk control measures.

This team can provide essential assistance in maintaining a consistent and effective process for managing risk at the Park and Lake. In addition, greater community ownership can be an outcome of community volunteer involvement on the team.

### **3.5 Incident and emergency**

When an incident, complaint or compliment is identified or received, appropriate action must be taken immediately to minimise any further impact.

The initial response step is to identify and assess the severity of the incident. If the incident can be effectively responded to by the organisation, then the appropriate operational and maintenance procedures are to be followed. If the severity determined to be greater than a routine or minor incident, it must be escalated as an emergency to the appropriate response level.

For either an incident or emergency, refer to the Emergency Response Plan incorporated in this OMP for appropriate response measures to take.

Recording the severity of the incident and corrective action/s that are implemented are to be recorded on the appropriate Council Report of Incident form (Personal, Vehicle, Equipment or Property) and filed in the records management system.

A Complaints and Compliments Procedure has been prepared that provides direction on recording and responding to complaints and compliments, refer to the Appendix.

An emergency contact list should be maintained and kept current, refer to the Appendix.

### **3.6 Inspections / Operational monitoring**

Ongoing inspections or operational monitoring of the Park and Lake activities, events and generally are essential for effective management of the assets, safety of the facility users and ensures compliance with the OMP, the other Management Plans, standards and statutory requirements. This can include:

- Observing the Lake for debris, oil, discolouration, floating scums, pest aquatic weeds



- Inspecting the wildlife proof fence
- Assessing compliance with behavioural control measures, such as following advice to shower before swimming
- Monitor water flow into the Lake
- Observe performance of maintenance programs
- Monitor cleanliness and maintenance of toilet and shower facility.

Event-based inspections should be carried out following any significant event such as severe rain and dust storms, high winds, fire etc. Results of the inspections, actions taken etc., must be recorded and maintained in the records management system.

Forms prepared to assist in ongoing monitoring and inspection of the Park and Lake are in the Appendix as follows:

- Asset Inspection Checklist (internal only)
- Non-conformance Report (internal only)
- OEMP Site Inspection Checklist (internal only)

### **3.7 Reporting**

Reporting, records, correspondence etc. are to be maintained in the records management system. Reports should be made available to an authorised statutory authority upon request.

Reporting and information dissemination are important tools for managing risks in recreational waters. They are essential for raising community awareness and increasing the understanding of the potential pollution sources and health risks associated with recreational water use.

Reports on microbial water quality should be kept as simple as possible and results presented in clear and easy-to-interpret formats. Care should be exercised when interpreting data and clearly state whether the NHMRC (2008) guidelines on recreational water quality were followed.

Preparation of an annual report on the Park and Lake is recommended as it can provide information on activities, events, participation levels, water quality monitoring results, issues, assist in ongoing improvement to the operations and future development.

### **3.8 Review**

As a living document, this OMP and Management Plans are subject to review at any stage during operations of the Park. The review and updating of procedures contained within this OMP will be undertaken when management controls are identified as either outdated, insufficient, a significant operational change or improvements are identified.

At a minimum, the OMP must be reviewed annually. When an up-to-date version of the OMP or Management Plan is reissued, relevant employees and volunteers are to be notified of changes and the document maintained in the records management system.

### **3.9 Community awareness and engagement**

Keeping neighbouring Park residents, businesses and the general community informed regarding Park activities and events is vital to building a vibrant community and Park. Community members

have been key participants in development of the BRP and ongoing effective communication is a critical part of fostering trusting relationships.

A well-developed communication plan can identify strategies to promote a greater awareness of the Park, its activities, measure performance and promote involvement of recreational water users. Protocols established prior to an incident or emergency supports effective open communication between stakeholders and users helps to strengthen community relationships and protect public health.

Communication tools can take a range of forms such as letter box drops, public notices, local advertising, public speaking opportunities, infographics and Council's social media. An up-to-date Community Consultation Register must always be maintained.

## **4 BARCOLDINE REC PARK**

### **4.1 Location**

The Park is located approximately 1km to the west of Barcaldine, Queensland on the southern side of the Landsborough Highway. It is on part of the Town Reserve described as Lot 9 on SP297069, within the Open Space and Recreation Zone.

The Park sits to the west and adjacent to Lagoon Creek within the Barcoo River catchment and covers an area of approximately 50Ha with the Lake covering approximately 27Ha. Figure 2 illustrates the location of the Barcaldine Rec Park.



**Figure 2 Location of the Barcaldine Rec Park and Lake**

### **4.2 Park details**

The family friendly Park and a constructed Lake was designed and constructed to cater for an array of water and land-based activities. These activities are complemented with vehicle and trailer parking areas, amenities, clubhouse, viewing areas and landscaping. The amenities and clubhouse building includes a canteen with outdoor dining, a viewing area, change rooms with showers and public toilets.

The Park is accessed from the adjacent Landsborough Highway by a sealed road. It is connected to town water and sewer, is surrounded by a wildlife proof fence and secured with agate.

The Lake is accessed by a boat ramp and includes sealed parking areas for vehicles and boat

trailers, a swimming area and sheltered viewing areas.

Details of the Lake are:

- It is a circular lake 1000 metres long with a centre island of approximately 28m wide (at water level) that intersects the water use areas, provides a wave break and assists in erosion control.
- Each channel of the circular lake is 90 metres wide and 2.7m deep
- It covers an area of 185,900m<sup>2</sup>
- It contains a water volume of 355ML
- Operation of the lake requires a minimum depth for use of 1.8m and a maximum depth of 2.7m. It is intended to maintain a water depth of 2.7m at most times.

### 4.3 Barcaldine water supply system

The Barcaldine water supply is sourced from a high yielding aquifer within the Great Artesian Basin. There are two bores supplying Barcaldine town water, the Pomona Bore and the Acacia Street Bore. Water is supplied to the Lake from the Acacia Street Bore and a water supply schematic is presented in Figure 3.

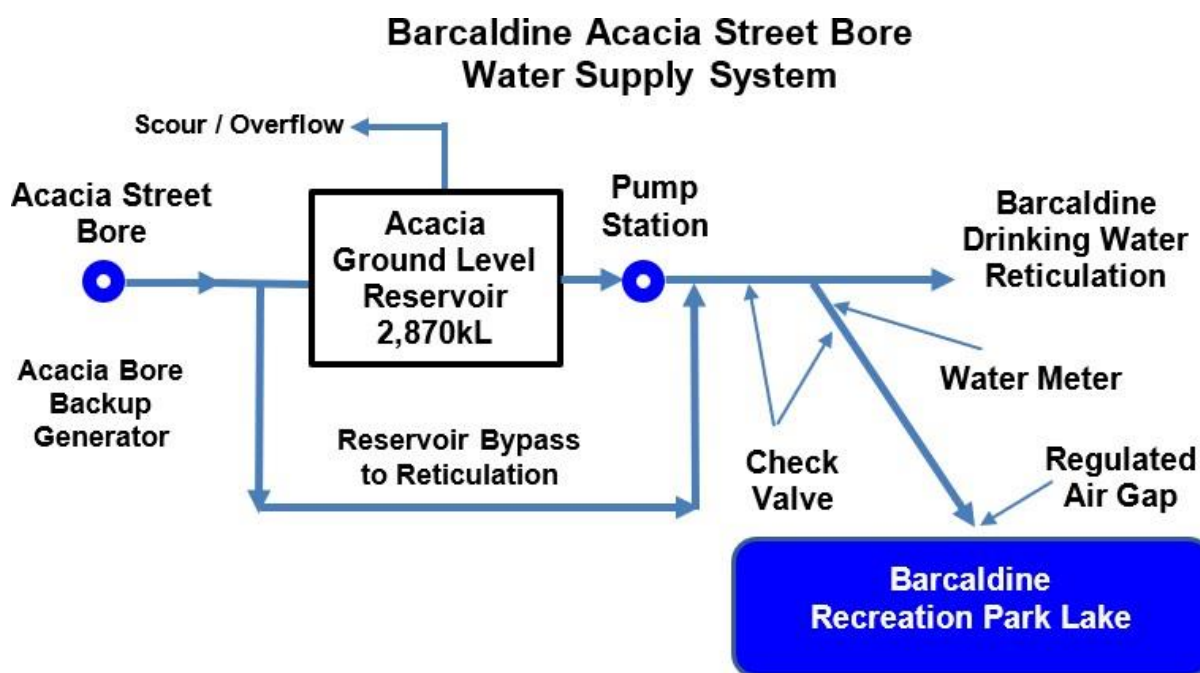


Figure 3 Barcaldine Acacia Street Bore Water Supply System

### 4.4 Source of lake water

The Acacia Street bore supplying artesian water to the Lake is pumped from a depth of 464.5m to the surface, then directed into a 2,870kL ground level reservoir. From the reservoir, water is pumped into the town water reticulation system with a connection diverting water to the Lake. The infrastructure supplying water to the Lake is protected by non-return check valves and a regulated air gap at the point that water enters the Lake.

If required, the water may be directed to bypass the ground level reservoir into the reticulation system and to the Lake.

The Acacia Street bore was drilled in 1996. Access to the bore is limited to authorised personnel only by way of security fencing and all bore headwork's are annuli sealed against the possibility of deliberate contamination from surface water leachate. (Section 3.3.2 of the Barcaldine Regional Council Drinking Water Quality Management Plan May 2018 GBA).

The water supplied for the town's drinking water and the Lake is not treated as the raw water quality complies with the Australian Drinking Water Guidelines, refer to Section 3.3.1 and Table 3.11 of the Barcaldine Regional Council Drinking Water Quality Management Plan May 2018 (GBA Consulting Engineers/George Bourne & Associates).

## **5 PARK MANAGEMENT**

### **5.1 Park etiquette**

This section provides general guidance on daily operations involved in managing the Park and Lake.

Park visitors are expected to conduct themselves in an orderly manner and refrain from any disrespectful, antisocial, discriminatory, riotous or abusive actions which may be disturbing to others and will not be tolerated.

The Park and Lake were established for the benefit and enjoyment of the community who are free to enter and participate in activities at their own risk.

### **5.2 Amenities**

Amenities, toilet showers etc including toilets and BBQ areas.

### **5.3 Animals**

Animals are not permitted to enter the Park, except dogs. All dogs must be on a leash, muzzled if necessary and not to be left unattended. In addition, adherence to responsible pet owner principles is expected such as cleaning up after the dog to ensure a safe and enjoyable experience for all.

### **5.4 Alcohol**

Currently BRC is investigating if the park has been designated an "ongoing wet area". More information needs to be sought for this decision to be finalised.

### **5.5 Booking system**

A booking system will be in place for the use of the clubhouse. For exclusive bookings of the Park, ie for an event, requires written permission from the CEO.

### **5.6 CCTV**

Closed Circuit Television (CCTV) or video surveillance may be used at the Park to monitor for crime prevention, encourage appropriate use of the Park and public safety.

### **5.7 Camping**

Camping at the Park is not allowed unless with prior written approval from the CEO.

### 5.8 Commercial activities

Council recognises that the use of its sites for commercial undertakings contributes to the economic activity in regional areas. Commercial service providers interested in providing services at the Park are encouraged to write to Council. The request must specify details of the commercial services to be provided. For further information, please refer to Council's customer service.

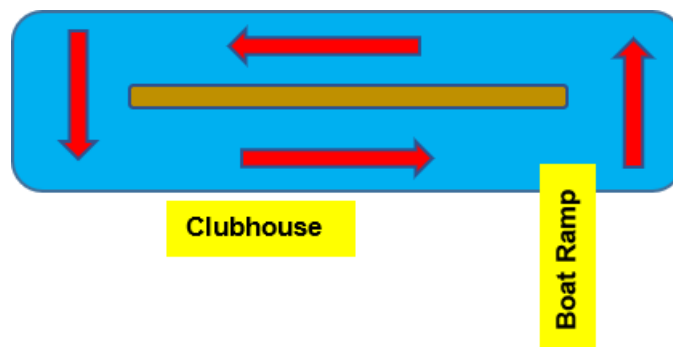
### 5.9 Community support group

A Community Support Group has been established to assist in maintaining and developing the Park. The Group actively participates with Council in supporting and promoting the Park to be a vibrant community space. In addition, the Group provides a platform for the community to connect with a range of Park activities such as, conservation, research, outreach and education initiatives.

For information on the Community Support Group, contact the District Manager - Barcaldine or for more information contact Council's Customer Service.

### 5.10 Direction of boat travel

All motorised and non-motorised boats must travel in an anticlockwise direction i.e. when leaving the boat ramp head southwest with the boat ramp on the starboard (right) side.



### 5.11 Enforcement

Enforcement activities are primarily aimed at visitor education and voluntary compliance to ensure the safety and enjoyment of all users. Council also partners with key enforcement agencies such as Queensland Police and Maritime Safety Queensland.

Regulatory authorities having statutory responsibility at the Park are:

- Barcaldine Regional Council is responsible for the operational management of the Park and Lake. Delegated employees have authority to administer Local Laws and appropriate state legislation.
- Maritime Safety Queensland is responsible for the marine safety regulations of the Transport Operations (Maritime Safety) Act 1994 and subordinate legislation.
- Queensland Boating and Fisheries Patrol are authorised shipping inspectors and enforce compliance with marine safety regulations.
- Queensland Police Service (Water Police) are authorised shipping inspectors and enforce compliance with marine safety regulations.

### **5.12 Events and special functions**

Requests for use of the Park for special functions during and outside normal operating hours are to be made in writing to Council. The request must specify the type of function to be held and the maximum numbers of guests attending. For further information, please refer to Council's customer service.

### **5.13 Health and safety**

Safety is expected to be a prime objective of all working at or visiting the Park. Visitors are to follow all health and safety directions of Council employees.

### **5.14 Hours of operation**

- Weekdays: Prior to 12.00pm non-motorised boats only, 12.00pm to 6.00pm motorised and non-motorised boats allowed
- Weekends and public holidays: 7.00am to 6.00pm motorised and non-motorised boats allowed
- Motorised or powered craft are not to operate on the lake before 7.00am or after 6.00pm
- Non powered activities may occur in seasonal daylight hours.
- Allowance for a special or scheduled event that closes the Lake.

### **5.15 Refuelling of boats**

Refuelling of boats on the water or at the boat ramp is strictly prohibited.

### **5.16 Swimming**

Swimming is allowed only in the designated buoyed area when powered boats are using the lake. No supplied lifeguard services. Swimming is undertaken at your own risk.

### **5.17 Vehicle movement**

Vehicles are to be driven only on the designated roads only at the speed posted signage.

## **6 MAINTENANCE**

Parks and open space provide for the health and wellbeing of the general community. They also provide important contact points, which helps to develop and strengthen the social cohesiveness. Council assets, such as the Park and Lake enable both community members and visitors to enjoy an organised and safe environment.

With the Park moving into the operations phase, the ongoing sustainability of Park assets should be reflected in the parks and open spaces asset management plan (AMP) as per Council's Asset Management Policy Q103. The AMP should cover the proposed levels of service, future demand, routine maintenance, renewal/replacement, acquisition/creation and decommissioning of Council's recreation and open space facilities and infrastructure.

Maintenance inspections of Park and Lake assets are to be carried out on a periodic basis by appropriately qualified and experienced employees to ensure that the asset is being maintained, defects are identified and scheduled for repair and it is fit for purpose.

A suggested asset inspection form has been prepared, refer to the Appendix.

## **7 CONCLUSION**

The Park and Lake meets a strong regional need for year-round water infrastructure and will allow grassroots community sport and recreation clubs to grow across the region. The purpose-built site with world-class facilities will provide a drawcard for activities and events for locals and visitors all year round.

The Park and Lake provides economic, tourism, recreation and sport outcomes with benefits including:

- Enhanced health and wellbeing activities for the region
- Increased range of water-based recreation and sports activities
- An opportunity to host water ski tournaments
- Economic and tourism opportunities for local and regional businesses

These assets deliver a high standard of living to the community, with a wide variety of lifestyle options.



## APPENDIX I EMERGENCY RESPONSE CONTACT DETAILS

### Emergency response contact details

Contact	Telephone number
Barcaldine Hospital (Queensland Health)	07 4650 4000
Barcaldine Regional Council Administration Office	07 4651 5600
Emergency – Ambulance, Fire or Police	000
Maritime Safety Queensland	Townsville 07 4421 8100 A/H 1300 721 263
Police	000 or 07 4651 1322
Pollution Incident Line (major pollution event)	1300 130 372 (option 2)
Queensland Ambulance Services	000
Queensland Fire & Emergency Services	000 or 07 4651 1190
State Emergency Services - Barcaldine	132 500

## **APPENDIX 2 RULES OF ACCESS AND USE**

### **RULES OF ACCESS AND USE**

#### **Application**

The Park and Lake were established for the benefit and enjoyment of the community who are free to enter and participate in activities using reasonable care and safety at their own risk.

The Rules of Access and Use serve only as a guide. They are not exhaustive or intended to be a complete list of rules governing the Park and any omission does not constitute a waiver of any offence.

Activities on the Lake are covered by the Maritime Safety Queensland Boating Regulations, [www.msq.qld.gov.au](http://www.msq.qld.gov.au).

#### **Signs**

All signs displayed at the Park must be complied with. They are not to be altered or interfered with.

#### **Access**

1. Access is limited to the fenced area surrounding the Park and Lake.
2. One must only enter or exit the Park and Lake by the designated entrance or exit points unless there is an emergency.
3. Swimmers are advised that there are no supplied lifeguard services.
4. Access may be restricted to the Park or Lake, or any part of it, for any reason, by council including health, safety, water quality, weather, events, construction, maintenance or related activities or a breach of a Rule.
5. Council reserves the right to refuse permission to enter the Park or Lake to people that Council believes have not, cannot or are unlikely to comply with the Rules or other agreement.

#### **Prohibited Activities**

The following activities are prohibited at the Park or Lake:

1. Acting in a disrespectful way to any other person or use of profane, indecent, obscene, threatening, abusive or insulting language.
2. Behave in a riotous, disorderly, indecent, offensive, threatening or insulting manner.
3. Be intoxicated or under the influence of any unlawful drug.
4. Cause directly or indirectly, damage to any land or property belonging to Council or to another person.
5. Do anything that interferes with the safety of the public or representatives of Council.
6. Not complying with a law, including for example fishing (e.g., catch limits), boating (e.g., speed and safety), native fauna (e.g., taking), explosives (e.g., fireworks).
7. Carry out illegal activities.
8. Operate any device at a volume likely to cause a nuisance.
9. Litter, pollute or discharge substances likely to pollute the Park or Lake. Take care of the environment dispose of rubbish responsibly.
10. Damage any flora or fauna.
11. Possess, handle or discharge a weapon of any nature.

12. Bring glass bottles or containers on to the Park or Lake.
13. Camp or remain in the Park or Lake after closing hours.
14. Allow a vehicle to go at a speed greater than indicated by a sign or in a dangerous or unsafe manner.
15. Operate a vehicle, without a current license or that is unregistered or uninsured.
16. Allow a vehicle to be parked in a place, other than in a designated parking space, or after you have been requested by a representative of Council to move the vehicle.
17. Start a fire other than in a designated fireplace or leave a fire in a designated fireplace unattended.
18. Install or erect temporary amusement equipment or pontoons on land or in the water.

#### **Motorised and Non-Motorised Boats**

All motorised and non-motorised boats must adhere to the following:

1. All boats must travel in an anticlockwise direction i.e. when leaving the boat ramp head southwest with the boat ramp on the starboard side.
2. Launching of boats is only permitted from the boat ramp adjacent to the carpark during operating hours.
3. Mooring or anchoring of boat at the Lake outside of the operating hours is prohibited.
4. All activities on the Barcaldine Recreational Lake are covered by the Boating Regulations set by Maritime Safety Queensland, [msq.qld.gov.au](http://msq.qld.gov.au). See website for more details.

## GLOSSARY

Unless the context requires otherwise, the following terms used in this procurement activity have the meanings ascribed to them as set out below.

**Algae** mean quite simple chlorophyll-bearing plants which are capable of photosynthesis. They occur in the aquatic environment and can be microscopic in size.

**Backflow prevention device** means a device used to prevent reverse flow within a water distribution system which could draw contaminated water back into the system.

**Boat** means a vessel, motorised or non-motorised vessel or watercraft.

**Colony forming unit (CFU)** means a micro-organism propagule (spore or cell) from which a colony has grown. For purposes of analysis, one cfu represents one viable organism. Typically, data on bacteria is reported as the number of these colonies in 100 millilitres of sample water.

**Council** means the Barcaldine Regional Council

**Cyanobacteria** means a photosynthetic bacteria which can occur in fresh and salt water and produces oxygen. Some can produce substances toxic to animals. The blue green is caused by phycocyanin pigments. This algae includes Anabaena and Microcystis spp. High concentrations affect the suitability of water for recreation and drinking.

**Environmental aspect** means an element of an organisation's activities, products or services that can impact with the environment.

**Environmental impact** means any change to the environment, whether adverse or beneficial, wholly or partially resulting from an organisation's activities, products or services.

**ERP** means an Emergency Response Plan.

**Faecal bacteria** mean (usually taken) faecal coliforms and enterococci. These bacteria are used as indicators of sewage pollution as they are present in the faeces of virtually all warm-blooded animals. Their presence in water indicates that faecal matter is present and that pathogens also may be present.

**Hazard** means a biological, chemical, physical or radiological agent that has the potential to cause harm (i.e., loss of life, injury or illness).

**Lake** means the Barcaldine Rec Park Lake.

**OEMP** means an Operation Environmental Management Plan.

**OMP** means an Operations Management Plan.

**Park** means the Barcaldine Rec Park.

**Public Health Risk** means something that is (or is likely to be) hazardous to human health or could contribute to a disease or an infectious condition in humans. This includes activities, animals and substances.

**Risk** means the likelihood of identified hazards causing harm in exposed populations in a specified time frame and includes the severity of the consequences.

**SP** means the Signage Plan.

**Sensitive receptors** mean areas or places at which acoustic environmental values must be protected, such as health and wellbeing in relation to the ability to sleep, to converse and generally. Among others, the list of sensitive receptors includes: a dwelling, a library or educational institution, childcare centre, hospital, commercial or retail premises, a protected area and public park.

**WQMP** means the Water Quality Management Plan.

**WSP** means the Water Sampling Plan.



71 Ash Street, Barcaldien QLD 4725  
07 4651 5600  
[council@barc.qld.gov.au](mailto:council@barc.qld.gov.au)  
[www.barcaldinerc.qld.gov.au](http://www.barcaldinerc.qld.gov.au)

