9 INFRASTRUCTURE SERVICES

9.1 INFRASTRUCTURE SERVICES, CAPITAL WORKS MONTHLY REPORT - AUGUST 2023

Date Prepared: **1 September 2023**

Author: **Manager Assets and Projects**

Attachments:
1. **Capital Works Highlights - August 2023** ⇩
2. **Capital Works Summary - August 2023** ⇩

EXECUTIVE SUMMARY

The purpose of this report is to provide an update on capital works projects undertaken by the Infrastructure Services Department during the month of August 2023.

RECOMMENDATION

That Council receives the Infrastructure Services Capital Works Monthly Report for the month of August 2023.

BACKGROUND

Council's Capital Works program is focussed on renewal and upgrade of Council infrastructure to achieve Council's corporate vision of "A growing, confident and sustainable Shire". The program is funded through a combination of Council's own funding and external grants and subsidies.

RISK IMPLICATIONS

Financial

The capital works program is tracking within budget.

Infrastructure and Assets

Projects included in the current capital works program were identified through Council's Project Prioritisation Tool (PPT) which uses a risk-based, multi-criteria approach to rank projects in order of priority. The PPT is aligned with Council's Long-Term Financial Plan and Asset Management sub-plans, which focus of renewal of existing assets.

FINANCIAL AND RESOURCE IMPLICATIONS

Capital
All capital works are listed in and funded by the 2023/24 Capital Works Program.

LINK TO CORPORATE PLAN

Transport and Council Infrastructure: The provision of quality services and infrastructure for our growing community that is planned and managed using sound asset management principles.

IMPLEMENTATION/COMMUNICATION

Infrastructure Services Capital Works Report
Project Highlights – August 2023

Project Name: Dimbulah Memorial Hall Roof Replacement and Insulation Upgrade

Program: Community Buildings

Background

The Dimbulah Memorial Hall roof is approaching end of useful life and the renewal of this roof and installation of insulation was included in the 2023/24 Capital Works program to enable subsequent solar panel installation and air-conditioning of the building under a separate project.

Scope of Work

This project was a complete replacement of the metal roof sheeting and associated flashings and guttering for the purpose of sealing to make the building watertight, with new blanket insulation for the building.

Progress Update

Works commenced and completed in August 2023.

Dimbulah Memorial Hall, 29 Raleigh Street Dimbulah

Dimbulah Memorial Hall Roof Replacement and Insulation Upgrade – Project Commencement

Infrastructure Services Capital Works Report
Project Highlights – August 2023

Dimbulah Memorial Hall Roof Replacement and Insulation Upgrade – Project Completion

Dimbulah Memorial Hall Roof Replacement and Insulation Upgrade – Project Completion Aerial View

Infrastructure Services Capital Works Report
Project Highlights – August 2023

Project Name: Anzac Park Mareeba

Program: Parks and Open Spaces

Background

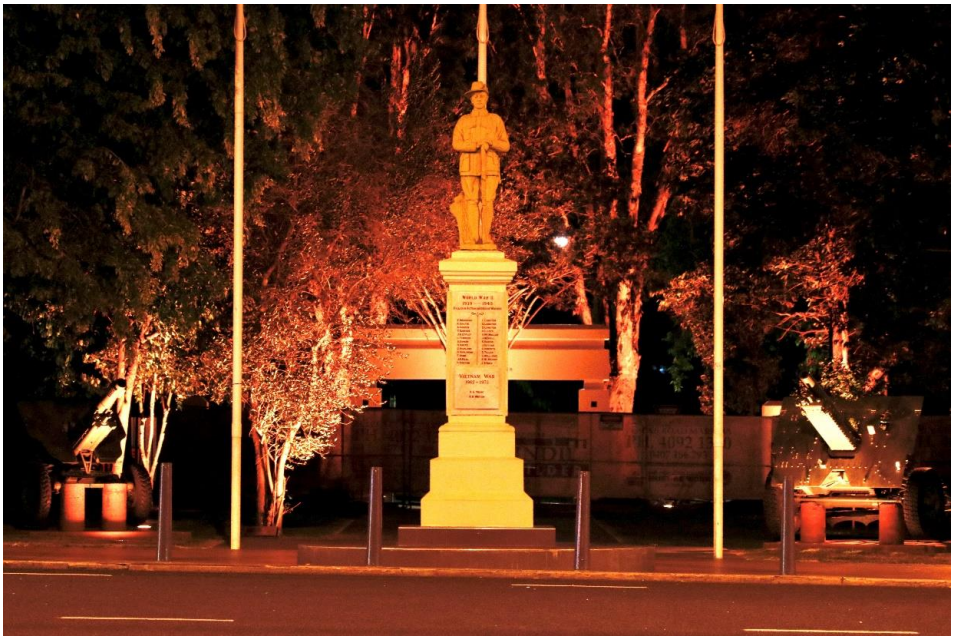
Mareeba Shire has multiple war memorial sites, displays and historical places of interest which honour those in our community who served Australia. As part of the Parks and Open Spaces Strategy, Council recognised the need to revitalise Anzac Park as the focal point for veterans, serving members of the Australian Defence Force and community. Businesses in Mareeba's CBD have been asking for changes to improve safety and reduce anti-social behaviour in the main street, and the revitalisation of Anzac Park should contribute to these aims.

Scope of Work

The parkland will incorporate up-lighting to highlight some of the features including the cannons and the trees, removal of the fountain, footpath renewal and planting of additional trees. The project will also see the addition of a named archway at the rear of the park.

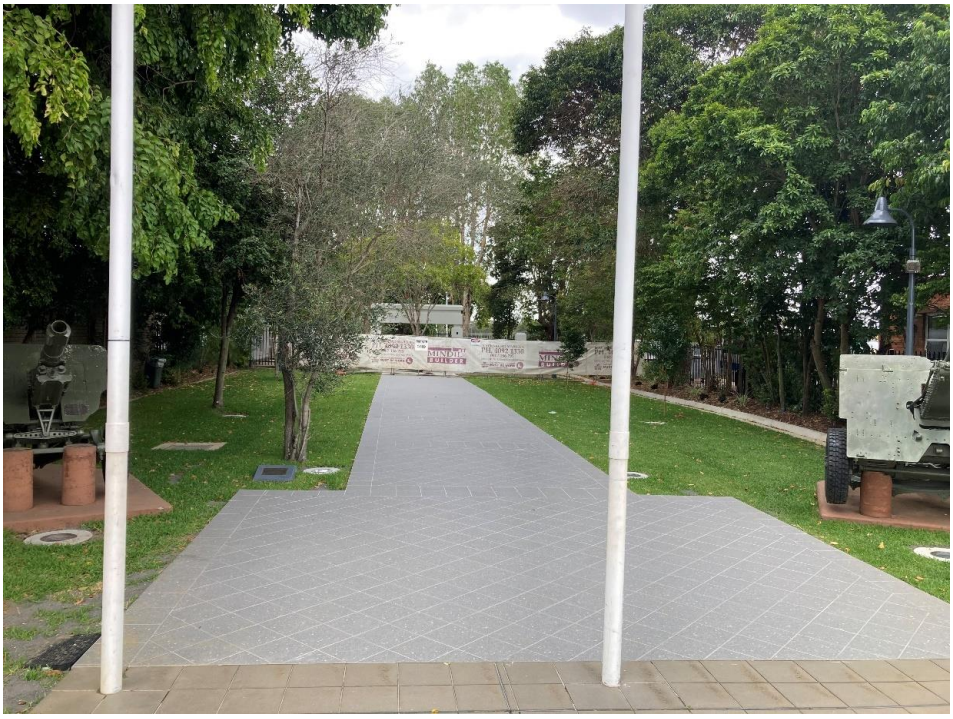
Progress Update

The concrete footpath is complete, and the final section of tiling work has commenced. The rear wall has been constructed and rendered. The gates are being installed and the new light controller has been installed and is being programmed. The park was opened for the Vietnam Veteran's Day service on 18 August and feature set to gold to mark the 50th anniversary of the end of Australia's involvement in the Vietnam War. Remaining works are scheduled for completion by the end of September.

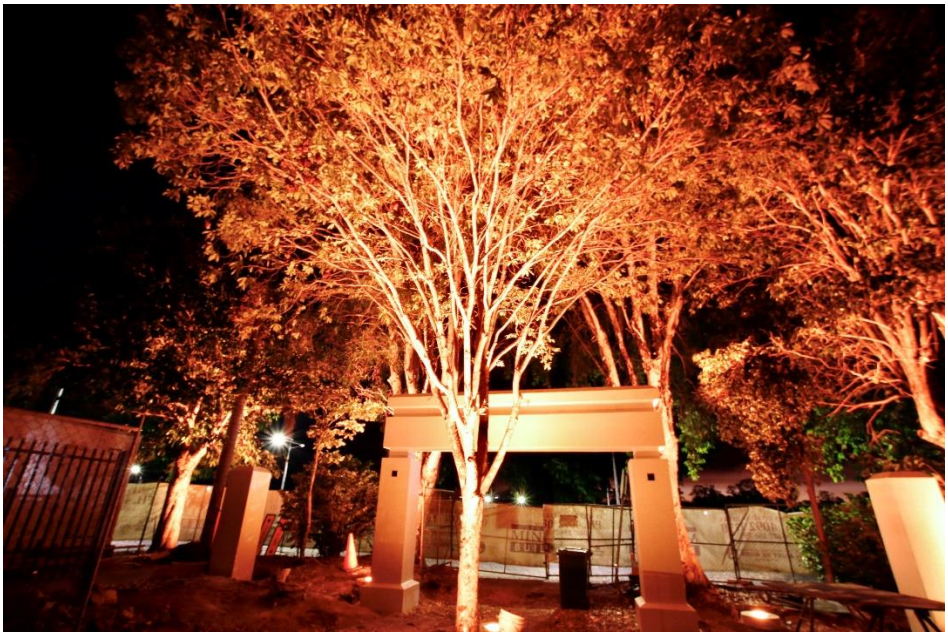


Anzac Park Mareeba – Byrnes Street Entrance Night

Infrastructure Services Capital Works Report
Project Highlights – August 2023



Anzac Park Footpath Replacement –new tiled footpath construction



Anzac Park Mareeba Construction Works – Railway Avenue Entrance - Night

Infrastructure Services Capital Works Report
Project Highlights – August 2023

Project Name: Bicentennial Lakes Revitalisation Project

Program: Parks and Open Spaces

Background

This project will activate the Lakes, breathing life back into the area and surrounds for the enjoyment of our community and visitors.

Scope of Work

The Bicentennial Lakes Project will completely revitalise the Lakes, starting in the southern section between Rankin Street and Keeble Street. In the southern section, the weirs will be removed, and the lakes will be filled to allow for more parkland. A watercourse will remain, although it will be narrower to encourage seasonal rains to flow through into the northern section. Water will no longer stagnate in a series of weirs. The increased parkland will allow for the addition of a playground and outdoor facilities.

Key Features:

- Bulk earthworks to improve the movement of water
- Earthworks to increase parkland in the southern section
- Construction of a playground and pump track
- New toilet facility
- Footpath improvements
- Construction of outdoor facilities

Progress Update

Waterway improvements

The weirs have been removed in the Southern Lakes precinct to allow the ground to dry so that it can be reshaped to a gully. Preparations offsite are underway to bring in material to commence the site reshaping works.

Mason Street Playground

A contract has been let for the pump track construction and construction works are scheduled to commence in late October 2023 and are scheduled for completion in December 2023.

Toilet construction works are expected to commence in late 2023.

Procurement commenced in August for the playground installation and a report will be table at the September 20 Council meeting recommending awarding the contract. Should this proceed, site works are likely to commence in late 2023 with playground installation completed in early 2024.

Infrastructure Services Capital Works Report
Project Highlights – August 2023

Mareeba SHIRE COUNCIL

BICENTENNIAL LAKES REVITALISATION PROJECT

THE SURVEY RESULTS ARE IN!

Council has prioritised the following play and outdoor elements for the new active recreational space.

Bicycle Pump Track

Boulder Climb

BBQs

Double Flying Fox

Embankment Slide

Swings

Covered Tables & Seating

Plus Additional lighting, improved accessibility and new amenities block.

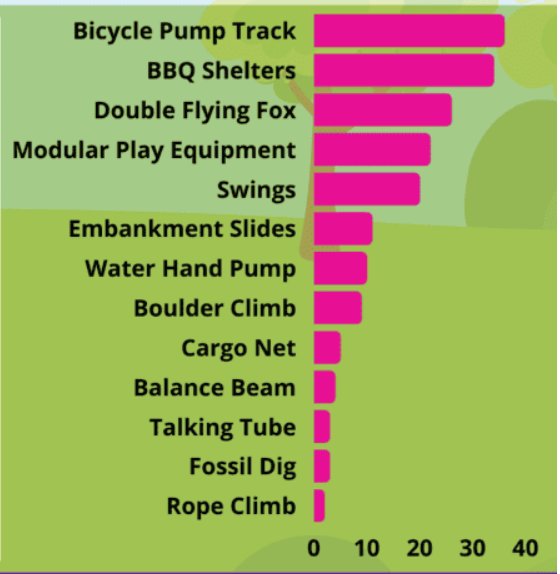
The play elements for the new active recreational space were chosen based on the results of the community survey, budget and overall precinct design.

Despite being a relatively popular option, the modular play equipment will not be included at this stage due to high purchase and installation costs.

This means other options can now be included as part of the final design.

However, as a direct result of community feedback via the survey, Council has allocated additional funds towards covered tables and seating, additional lighting, improved accessibility and a new amenities block.

These new elements will now form part of the exciting new active recreational space!



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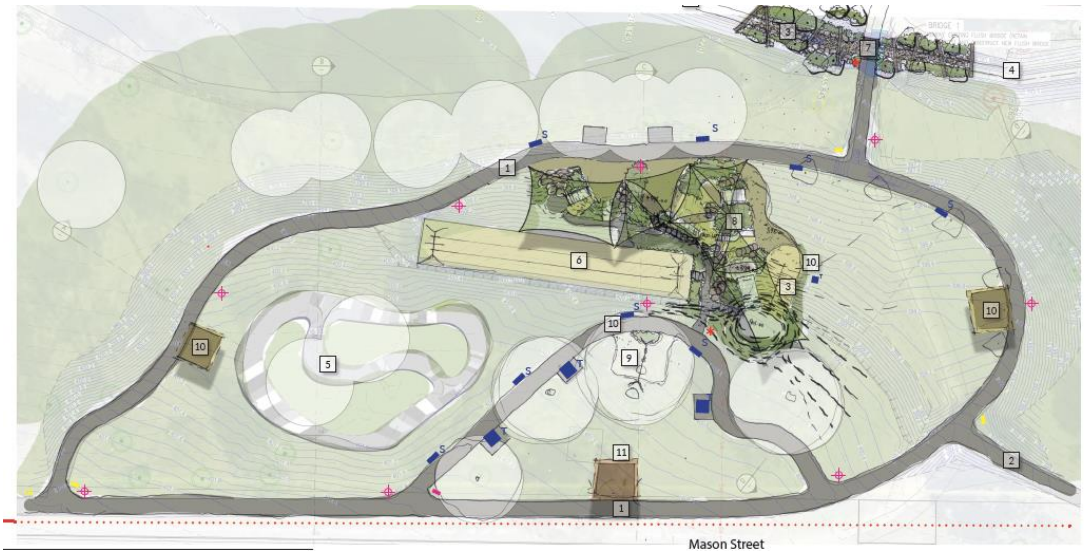
Infrastructure Services Capital Works Report
Project Highlights – August 2023



Bicentennial Lakes Southern Precinct Concept Plan

Bicentennial Lakes Southern Section Weir Removal

Infrastructure Services Capital Works Report
Project Highlights – August 2023

Project Name: Bicentennial Lakes Gravity Sewer Main Upgrade, Mareeba

Program: Wastewater

Background

The gravity sewer main installation is located adjacent Bicentennial Lakes and connects the previously upgraded section upstream from Rankin Street and discharges upstream of the pump station at Byrnes Street. The project includes all works associated with the construction of a new sewer gravity main, inclusive of a water main relocation to enable the works.

The project is grant funded through the Queensland Reconstruction Authority (QRA) via the Qld Resilience & Risk Reduction Funding Program (QRRRF) and is expected to be completed in November 2023.

Scope of Works

Installation of new 450mm gravity trunk sewer main, sewer manholes and connections and relocation and upgrading of water mains located at Keeble Street and Jacobsen Street and connections and valving. Works are generally limited to the road reserve between the edge of road and property boundary.

Progress Update

Works commenced mid-May and have progressed well with the contractor achieving the following project milestones during August:

- Installation of DN900 enveloper pipes and DN450 DICL Sewer main pipework under Byrnes Street (TMR Corridor)
- Installation of DN450 stainless steel drop pipe into existing manhole, connection to new pipework and reinstate existing manhole wall
- Trenching and installation of Line 1 and Line 3 sewer pipework:
  - DN900 Enveloper pipework and DN450 DICL sewer pipework installed through TMR corridor – single lane closures were required for works to proceed – traffic disruptions contained to 2 days on contraflow though site, and occasional traffic stoppage for works on 3 following days.
  - DN450 SewerMax pipe work still to be installed from manhole 1/1 to 1/12, works commencing following receipt of QR Wayleave approval and completion of TMR corridor works

Infrastructure Services Capital Works Report
Project Highlights – August 2023

Trenching through Byrnes Street (TMR Corridor) under single lane closure

Infrastructure Services Capital Works Report
Project Highlights – August 2023

Project Name: Euluma Creek Road – Widen and Seal Ch 9.35-10.13

Program: Rural Roads

Background

Euluma Creek Road is classed as a Local Road of Regional Significance (LRRS) under the Roads and Transport Alliance and is eligible for a maximum of 50% funding from the Transport and Infrastructure Development Scheme (TIDS).

Several projects are currently listed in the FNQROC TIDS Program for the widening of sections of Euluma Creek Road between Black Mountain Road and McLeans Bridge Road to cater for increasing heavy traffic and to address ongoing defects, edge wear and edge drop.

Scope of Works

The existing 5m wide bitumen section is to be realigned and widened to a sealed width of 8m with drainage infrastructure extended accordingly.

Progress Update

Sealing was completed earlier this year and the project was fully completed mid-August following the installation of line marking.

Ch 9370 - Before

Ch 9370 - After

Ch 9480 – Complete

Ch 9860 - Complete

Infrastructure Services Capital Works Report
Project Highlights – August 2023

Project Name: Bilwon Road Biboohra – Road Rehabilitation and Culvert Upgrade
Program: Rural Roads

Background

In 2021, Council received a request through the Traffic Advisory Committee from the Queensland Police Service to undertake a safety review on a section of Bilwon Road between Querin Road and Rosing Road in response to a number of non-fatal traffic accidents. As a result of the review, a project was adopted and Roads to Recovery funding was allocated to the project in the 2022/23 Capital Works Program.

Scope of Works

The scope of works includes the rehabilitation of the existing section of road, replace the 1800 diameter reinforced concrete pipes, generally improve the vertical alignment, upgrade the intersections at Querin Road and Rosing Road, and provide new driveway crossovers to several residences to match the new levels.

Progress Update

All ground surface treatment, unsuitable material replacement, rock protection, subbase and base layer works have been completed. The project is programmed for sealing 7 September. Line marking, concrete batter protection and guard rail installation will follow.

Unsuitable material replacement

Subbase layer installation

Rock protection works

LHS Base layer complete

Infrastructure Services Capital Works Report
Project Highlights – August 2023

Project Name: Springmount Road – Curve and Culvert Widening Ch 13.18 - Ch 18.10

Program: Rural Roads

Background

Council received Federal Government funding from the Heavy Vehicle Safety and Productivity Program (HVSPP) to undertake curve and culvert widenings on Springmount Road. The grant will cover 80% of the design and construction costs with the Queensland Government's Transport Infrastructure Development Scheme (TIDS) contributing 10% and Mareeba Shire Council the other 10%.

Scope of Works

The scope of works includes the widening and bitumen sealing of curves and associated culverts between chainage 13.18km and chainage 18.10km on Springmount Road. Extensive culvert inlet and outlet works will be required to de-water some of the existing culverts that have silted up after many years.

Progress Update

Clear and grub and dewatering activities are complete and culvert extensions and headwall installations are ongoing. Pavement widening works will commence mid-September.

Culvert headwall and apron construction

Installed pre-fabricated headwall

Pipe overlay zone compaction

2023/2024 Capital Program

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Project Code	Project Description	Project Stage	Project Comment
Program: 01 Rural and Urban Roads Reseal Program (Renewal)			
JP0001020	23/24 Reseal & Asphalt Program	Construction	Prestart meeting 07/09/2023.
JP00829	22/23 Reseal & Asphalt Program	Completed	Project completed June 2023.
JP00835	BETTERMENT Co-Contribution	Procurement	Tenders received and under evaluation.
Program: 02 Gravel Resheet			
JP0001022	23/24 Gravel Resheet Program	Procurement	Re-sheet of section between end of existing bitumen & south western corner of Lot 1NR7742 on Pickford Road will commence after sealing of Bilwon Road project in early to mid-September.
Program: 03 Urban Streets			
JP0001023	Recovery Way (WTS) Rehab Ch 0.176-0.272	Not Commenced	To be programmed.
JP0001024	Myola Rd Ch 0.2-3.06	Not Commenced	To be programmed.
JP00791	Hastie/Constance Upgrade (School)	Design	Detailed design for crossing improvements completed and awaiting lighting design.
JP00795	TIDS 23-27 Herberton/Constance Inter	Design	Consultant engaged for design. Preliminary design reviewed and returned to Consultant with comments.
JP00797	TIDS Rankin/Walsh St Roundabout	Design	Preliminary design report received and returned to consultant with comments.
JP00943	Design Only McIver Rd Ch. 0.00-7.20	Design	Design phase.
Program: 04 Rural Roads			
JP0000948	TIDS 23/24 Springmount Rd Ch 11.35-12.7	Procurement	Design completed. Construction scheduled to commence in late 2023.
JP0000949	TIDS 23-25 Springmount Rd Ch 6.7-7.55	Procurement	Procurement underway.
JP00801	TIDS Ootann Rd Section 1&2 Widen & Seal	On Hold	On hold pending Federal Government funding review.
JP00802	TIDS Springmount Rd Widen & Seal	Construction	Culvert extensions on-going. Additional RCPs installed over & above planning. Length of widening may be reduced to suit budget. All drainage components will be completed.
JP00836	R2R Bilwon Rd Rehab & Culverts	Construction	Pavement work commenced. Tentative sealing date of 7 September.
Program: 05 Bridges			
JP00711	Granite Ck Mba Replace Footbridge Deck	Not Commenced	Not commenced.
JP00712	Palm Cl Mba Replace Footbridge Boards	Procurement	Timber decking ordered. Work will carry over into 2023/24 financial year
JP00713	Bicentennial Lakes F/bridge Safety Upgr	Procurement	Work will be done in conjunction with Bi Lakes southern upgrade.
JP00839	Bullaburrah Ck Rd C'way Relieving Slab	Not Commenced	Not commenced.
JP00840	Clohesy River Barron St Inspect & Design	Design	Awaiting fee proposal from bridge engineer.
JP00841	Bolton Rd Inspect/Design/Repl Girders	On Hold	Draft Report received, review underway.
JP00842	Barron Riv. Bridge Oakforest Rd Insp/Des	Design	RFQ for Design Consultancy currently out for pricing. Design Consultancy to be completed as soon as possible.
JP00843	Barron River Cwy Henry H Dr Repl Slabs	Not Commenced	Not commenced.
Program: 06 Drainage			
JP0001021	23/24 Minor Culvert & C/ways Program	Procurement	Four culvert road crossings to be installed on Pickford Road in September.
JP00844	MBA Amaroo Drainage Upgrades	Design	Design phase.
JP00845	MBA Hastings Dr Replace Concrete Pipe	Construction	Repair options under review.
JP00938	Tilse Street Upgrade Drainage	Construction	Contribution to Prestige Gardens Subdivision - Trunk Drainage Component. Works significantly progressed by Developer.
Program: 07 Traffic Facilities			
JP0000947	Mareeba Aerodrome Safety & Repairs	Construction	Fire safety works still on going.
JP0000951	Anzac Ave LATM Upgrades	Not Commenced	Not commenced.
JP0001025	Design Only Byrnes St Accessibility	Procurement	Quotations invited for storm water assessment.
Program: 08 Parking			
JP00715	Borzi Park Mba Carparking Masterplan	Design	Concepts prepared and under review.
JP00846	MBA Heritage Centre Carpark Extension	Design	Concepts prepared and under review.
Program: 09 Footpaths			
JP0001026	23/24 Footpath Renewal Program	Planning	First sites have been identified by Projects in the Dunlop Street/Byrnes Street area. Subject to water main installation.

roject Code	*Project Description*	Project Stage	Project Comment
:P0001027	23/24 Footpath Upgrade Program	Planning	Locations to be identified.
:P00803	MBA Rail Trail Stage 1 Mba to Airport	Construction	Bollard will be installed September 2023.
rogram: 10 Parks and Gardens			
:P0001028	Mary Andrews Park Repaint Play Equip	Not Commenced	To be done after September school holidays & before Xmas school holidays.
:P0001029	Kda Com Precinct Parks Upgrade	Not Commenced	Not commenced.
:P0001030	Mba-Dim Rd/Mulligan Hwy Intersection	Not Commenced	To be undertaken after March 2024.
:P0001031	Byrnes St Median Hedges (Lloyd-Granite)	Not Commenced	To be programmed for after March 2024.
:P00794	LRCIP2 Mba Byrnes Street Medians	Construction	Street bins to be installed once historical wraps arrive.
:P00805	Chillagoe Hall Playground Improvement	Planning	Public consultation commenced.
:P00806	DIM Parks Refresh	Construction	Design works for Pump track have been received. Construction to commence in mid September.
:P00807	KDA Centenary Park Playground Upgrade	Construction	Construction of playground complete. Defects will be repaired in September.
:P00809	MBA Bicentennial Lakes (Southern) D&C	Construction	Earthworks to commence in mid September. Tenders received for Mason Street play elements.
:P00817	MBA Byrnes St Medians	Not Commenced	Project to be programmed for after March 2024.
:P00818	MBA Anzac Memorial Pk L'scaping & Safety	Construction	Works substantially complete, expected completion end of September.
:P00853	MBA Byrnes St Traffic Islands (BP)	Not Commenced	Commence project after March 2024.
:P00855	MBA Connection Rd/Byrnes St Intersection	Not Commenced	Commence project after March 2024.
:P00860	KDA Anzac Park Landscaping	Design	Design under review following public consultation.
:P00861	KDA Coondoo Street Refurb	Design	On hold pending grant application outcome.
:P00862	KDA CBD Planter Boxes & Gardens	Not Commenced	On hold pending grant application outcome.
:P00865	IRV Bill Newburn Park Refresh	Procurement	The play equipment and park furniture requirement has been finalised and the budget increased accordingly. PM to seek quotes for the supply and installation of the approved park infrastructure.
:P00866	MBA Eastern Catchment Park Amaroo St1	Construction	Playground completed, public consultation has commenced for masterplan.
:P00939	Roscommon Park -Renew Exercise Equipment	Procurement	Exercise equipment quotes received and being assessed.
rogram: 11 Water			
:P0000952	MBA Centenary Park Booster Station Pump	Completed	New pump installed and commissioned.
:P0001032	Chillagoe WTP Construct Storage Shed	Construction	Order for new storage shed placed with suitable supplier. Installation to commence in September.
:P0001033	Chillagoe WTP Construct Roof over Plant	Construction	Order placed with suitable supplier for new skillion roofing. Installation to commence in September.
:P0001034	Ibis Dam Replace Inlet Feed Pipeline	Planning	Supervisor reticulation liaising with Stores for the procurement of materials required to undertake the works.
:P0001035	23/24 WTP Minor Infra Replace Program	Procurement	Equipment for Dimbulah and Chillagoe WTP's has been ordered and supplier has advised that delivery will be approximately early to mid October.
:P0001036	23/24 AC Water Main Replace Program	Procurement	Project currently out to tender, once tenders are in and assessed will be taken to council for consideration of award.
:P0001037	23/24 Water Telemetry/SCADA Upgrades	Planning	W&W along with IT participated in a presentation by iControl on Ignition Historian as the current Historian eDNA is at the end of its useful life. Following the presentation it was agreed to the implementation of Ignition as the new Historian platform for W&W.
:P0001038	23/24 Retic Valve/Hyd Replace Program	Construction	Materials for project have been delivered and works will commence mid September.
:P0001039	23/24 Retic Smart Meter Replace Program	Construction	Works on installation of new meters underway and this work will progress for some time.
:P00730	Mba WTP Study for Upgrade of WW System	Construction	This one won't be completed for some months yet and needs to be carried over.
:P00733	BOR6 MWTP Filtration Upgrade	Construction	Project design drawings being finalised ahead of physical construction. Currently everything is on schedule.
:P00824	MBA Clear Water Booster Pump Station	Construction	Project pre-start meeting held 29 June and key equipment items such as booster pumps are on order.
:P00871	KDA WTP Auto Backwash on 3 Filter Cells	Planning	Treatment operations staff to liaise with suitably qualified person for the implementation works.

roject Code	*Project Description*	Project Stage	Project Comment
:P00874	MBA WTP Raw Water Pumps & Electrics	Construction	Project pre-start meeting held 29 June, key equipment items have been ordered with long delivery time frames. Actual physical site works won't commence until October when equipment arrives.
:P00876	BOR6 22/23 Water Forward Design Program	Design	Design report received.
:P00877	MBA Additional Pressure Reduction Valves	Construction	This work is being done in conjunction with the booster pump station project.
:P00878	MBA Deommision Basalt St Elevated Tank	Construction	This work will be done in conjunction with the commissioning of the booster pump station
:P00879	MBA Decommission Granite Ck Pump Station	Planning	Project cannot commence until the new water booster station project has been commissioned and suggest this project will need to be carried forward to the 2023-2024 capital program.
:P00882	WTP Minor Infrastructure Replacements	Construction	Equipment for Chillagoe WTP has been ordered and supplier has advised that delivery will be approximately early October.
:P00883	MBA WTP Clarifier Infra Process Improv.	Design	Design report received.
rogram: 12 Wastewater			
:P0001040	Mba WWTP Install Gantry (Blower Room)	Planning	An engineered gantry is required, Council officers to liaise with OSE in Cairns for design.
:P0001041	Mba WWTP Inlet Works Replacements	Construction	New screens ordered and being manufactured, once they're made they'll be shipped to site and installed.
:P0001042	Kda WWTP Intet Works Replacements	Construction	New screen being manufactured and once made will be shipped to site and installed.
:P0001043	Atherton St Pump Station Refurb	Not Commenced	Project subject to grant funding.
:P0001044	Robins St SPS Rising Main Upgrade	Not Commenced	Project subject to grant funding.
:P0001045	23/24 WW Retic Pump Renewal Program	Planning	An assessment will be made during the routine pump servicing in November on which pump/pumps require replacing.
:P0001046	23/24 WW Telemetry/SCADA Upgrades	Planning	W&W along with IT participated in a presentation by iControl on Ignition Historian as the current Historian eDNA is at the end of its useful life. Following the presentation it was agreed to the implementation of Ignition as the new Historian platform for W&W.
:P0001047	23/24 WW CCTV & Relining Program	Procurement	Both MSC and TRC have now formally approved the awarding of the tender to Relining Solutions, CRC will award during September and then the 2023-2024 program can commence.
:P0001048	SPS New Standby Generators	Construction	New generators have arrived and will be installed as soon as practical.
:P0001049	23/24 WW Manhole Rehab/Replace Prog	Procurement	Project is currently out to tender, once the tender closes an assessment will be made and report to Council for consideration.
:P0001050	Kennedy Hwy PS Control Board Upgrade	Construction	New switchboard under construction, once completed it will be transported to site and installed.
:P0001051	Mba WWTP Sewer Pump Replacement	Planning	Pump for replacement has been identified and a new pump will be ordered once quotes have been received.
:P0001052	23/24 WWTP Minor Infa Renewal Program	Planning	Working with treatment operations supervisor to identify critical equipment that requires replacement. To date a flow meter and associated equipment has been ordered for one site.
:P0001053	23/24 WWPS Refurbishment Program	Construction	Working with suitable consultants and suppliers to understand the works required at some key SPS's before commencing works and councils fabricator upgrading the shelters to the pump stations in Kuranda.
:P00886	MBA Bi-Lakes Sewer Main Capacity	Construction	QRail have now denied the Wayleave Application which requires a revised alignment along the sections of Keeble St, Railway Ave and behind the Lyons Park.
:P00889	22/23 MBA Sewer CCTV & Relining	Construction	Contractor has advised that the materials to complete the relining works has arrived and they are on site doing vac works and site preparations. They also need to access the Granite Creek SPS to reline back from the SPS toward the hospital.
:P00894	Minor WW Pump Station Refurbishments	On Hold	Subject to grant funding.
rogram: 13 Waste			
:P0001054	23/24 Mba L/Fill Leachate Pump Replace	Planning	An assessment will be done in the November service round on which pumps to replace.
:P0001055	23/24 Mba L/Fill PS Pump Replace	Planning	An assessment will be done in the November service round on which pumps to replace.

Project Code	Project Description	Project Stage	Project Comment
:P00789	MWF Construct New Landfill Cells	Design	New cell design now completed along with electrical design. We're waiting on final invoice from designers.
:P00935	MBA/KDA Transfer Station Security Improv	Construction	Working with new CCTV installer.
rogram: 15 Fleet			
:P0001066	Fleet Replace #14 Grader Caterpillar	Procurement	Tender have been called.
:P0001067	Fleet Replace #401 Mini Excavator	Planning	Currently in planning stage.
:P0001068	Fleet Replace #619 Job Truck Tipper	Planning	Currently in planning stage.
:P0001069	Fleet Replace #1206 Mitsu Pool Vehicle	Planning	Currently in planning stage.
:P0001070	Fleet Replace #1210 Mitsu Pool Vehicle	Planning	Currently in planning stage.
:P0001071	Fleet Replace #1231 Toyota WW	Planning	Currently in planning stage.
:P0001072	Fleet Replace #1313 Nissan Dual Cab	Planning	Currently in planning stage.
:P0001073	Fleet Replace #1402 Mazda Oncall Veh	Planning	Currently in planning stage.
:P0001074	Fleet Replace #2055 Mitsu P&G	Planning	Currently in planning stage.
:P0001075	Fleet Replace #4050 Kubota Zero Turn	Planning	Currently in planning stage.
:P0001076	Fleet Replace #4051 Kubota Out Front	Planning	Currently in planning stage.
:P0001077	Fleet Replace Jet Rodder Trailer	Planning	Waiting delivery, possible delivery date mid October 2023.
:P0001078	Fleet New Caterpillar Mini Excavator	Procurement	Waiting delivery. Possible delivery Oct-Nov 2023.
:P00427	GPS Vehicle Management System	In Progress (for the non-infrastructure projects)	Installation commencing early September on small selection of plant.
:P00915	Fleet Replace #675 Crew Cab Tipper	Procurement	Truck received and with the body fabricator.
:P00916	Fleet Replace #623 Crew Cab Tipper	Procurement	Truck received and with the body fabricator.
rogram: 16 Depots and Council Offices			
:P0001064	Mba Depot Admin Building Refurb	Not Commenced	Not commenced.
:P0001065	Mba Depot Stores Mez Floor Safety Upgr	Planning	Waiting on Engineering designs.
:P00759	Kowa St MSC Depot Emergency Generator	Planning	Options under review.
rogram: 17 Community Buildings			
:P0000950	Cedric Davies Hub Disaster Resilience Up	Procurement	Tenders received and under evaluation.
:P0001056	Chillagoe Hall Septic Modifications	Planning	Planning in conjunction with Playground project.
:P0001057	Mba Aquatic Fac Pump Shed Upgrades	Planning	Working on Scope of Works.
:P0001059	Mba/Dim Aquatic Condition Assessment	Not Commenced	Not commenced.
:P0001060	Dimbulah Hall Replace Roller Doors/Gates	Procurement	Quotes have been received.
:P0001061	Dimbulah Hall Replace Roof	Construction	Works completed.
:P0001062	23/24 Amenities Refurbishment Program	Planning	Working on scope of works.
:P0001063	Davies Park Lighting Upgrade	Design	Engaging Electrical Engineer for the design of the lights. Grant application being prepared.
:P0001087	Aquatic Facilities Equipment	Procurement	Pool Blankets ordered and awaiting delivery.
:P00749	Aquatic Facility Upgrades & Splash Park	Construction	Splash Park complete and pool heaters operational. Electrical upgrades to be undertaken over coming months.
:P00793	MBA Women's Restroom Refurb	On Hold	On hold.
:P00819	22/23 Shire Toilet Facility Repl Program	Construction	Remedial works to Vains Park Toilets and Mareeba Aerodrome Toilet block set for Council's Carpenter. Painting works awarded. Works set to be completed by early September 2023.
:P00827	MBA Community Hub Signage & Seating	Construction	Shelter structure procured. Installation works underway.
:P00905	KDA Community Prec. Toilet Refurb	Completed	Painting works completed.
:P00909	KDA Aquatic Cnt 25m Pool Aquaris Upgrade	Procurement	Equipment assessment completed, quotations underway.
:P00910	22/23 MBA Roof Replacement Program	Completed	Works now completed.
:P00941	23/24 Park/Sporting LED Lights Arnold Pk	Design	Engaging Electrical Engineer to design lighting layout.
:P00942	22/23 DIM Town Hall A/C/Solar/Lighting	Procurement	Works to commence after roof replacement project.
rogram: 18 Non-Infrastructure Items			
:P0000946	Mba Cemetery New Mausoleum Wall	Procurement	Tenders received and under evaluation.
:P0001058	WAT Cemetery Lawn Plaque on Beam	Not Commenced	Not commenced.
:P0001082	Tech Replace Total Station/Controller	Procurement	Scheduled for delivery early September 2023.
:P0001083	Tech New Drone & Software	Procurement	Awaiting delivery.
:P0001084	Mba Cemetery New Lawn Beam (x2)	Not Commenced	Will be completed this calendar year.
:P0001085	Mba Cemetery Expansion Planning	Not Commenced	Not commenced.
:P00446	Kuranda New Cemetery	Construction	Contract for Stage 1 awarded to Ikin Civil, project remains in budget. Reconfig/MCU process continues.

roject Code	*Project Description*	Project Stage	Project Comment
:P00932	MBA MIP Expansion	Planning	Draft Masterplan to be received by October 2023.

9.2 INFRASTRUCTURE SERVICES, WATER AND WASTE OPERATIONS REPORT - AUGUST 2023

Date Prepared: **1 September 2023**

Author: **Manager Water and Waste**

Attachments: **Nil**

EXECUTIVE SUMMARY

The purpose of this report is to summarise Council's Water and Waste activities undertaken by the Infrastructure Services Department during the month of August 2023.

RECOMMENDATION

That Council receives the Infrastructure Services, Water and Waste Operations Report for August 2023.

BACKGROUND

Water and Wastewater Treatment:

All treatment plants are generally performing satisfactorily. Water demand was varied across all schemes. Rainfall in most catchments has resulted in decreased consumption per connection compared with previous years.

Routine environmental monitoring did not detect any exceedances of environmental discharge limits. No anomalies or reportable notifications were reported in relation to routine water quality testing conducted during the month.

Data for Mt Molloy is unavailable for the month of August due to a faulty bulk flow meter. Parts are being sourced for replacement. Connections have been updated with information provided by the rates section to correspond with annual KPI reporting.

Water Treatment	Mareeba	Kuranda	Chillagoe	Dimbulah	Mt Molloy*
Water Plant average daily production (kL)	8,358	789	323	436	N/A
Number of Connections	4,141	1053	127	246	111
Average daily water consumption per connection (L)	2,018	749	2,541	1,774	N/A

** Mt Molloy is an untreated, non-potable water supply*

Wastewater Treatment	Mareeba	Kuranda
Wastewater Plant average daily treatment (kL)	2,242	207
Number of Connections	3,519	356
Average daily inflow per connection (L)	637	581

Mareeba Water Treatment Plant Upgrades:

Three (3) critical infrastructure projects at the Mareeba Water Treatment Plant (MWTP) are commencing in the coming weeks as part of Council's 10-year Water Strategy:

- MWTP Filtration System Upgrade
- MWTP Raw Water Pump Upgrade
- MWTP Booster Pump Station Upgrade

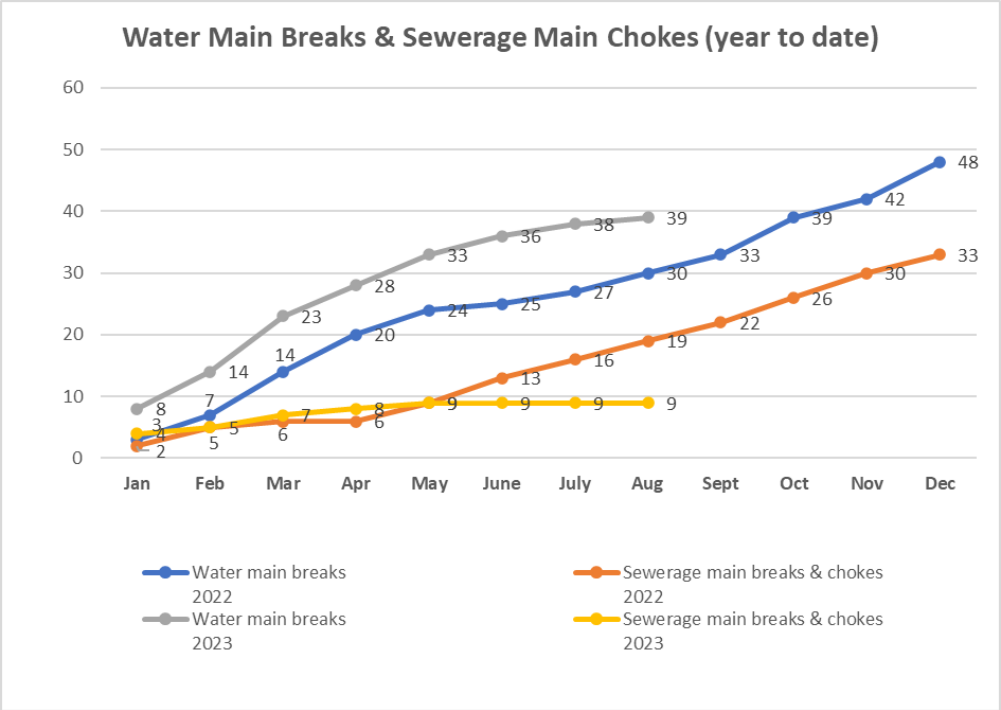
These projects will increase capacity of the plant and ensure that Council is able to supply safe residents and businesses in Mareeba now and into the future. Completion of the upgrades is programmed for mid-2024.

While these works occur at the Mareeba Water Treatment Plant there may be disruptions from time-to-time. As a result, the community will be asked to conserve water and reduce consumption during the upgrades. It may be necessary to introduce water restrictions to enable certainty of water supply to residents.

Water and Wastewater Reticulation:

Council's water reticulation crew attended to one (1) water main break, and zero (0) sewer main breaks/chokes this month, and average response times were within targets set out in Council's customer service standard for water services.

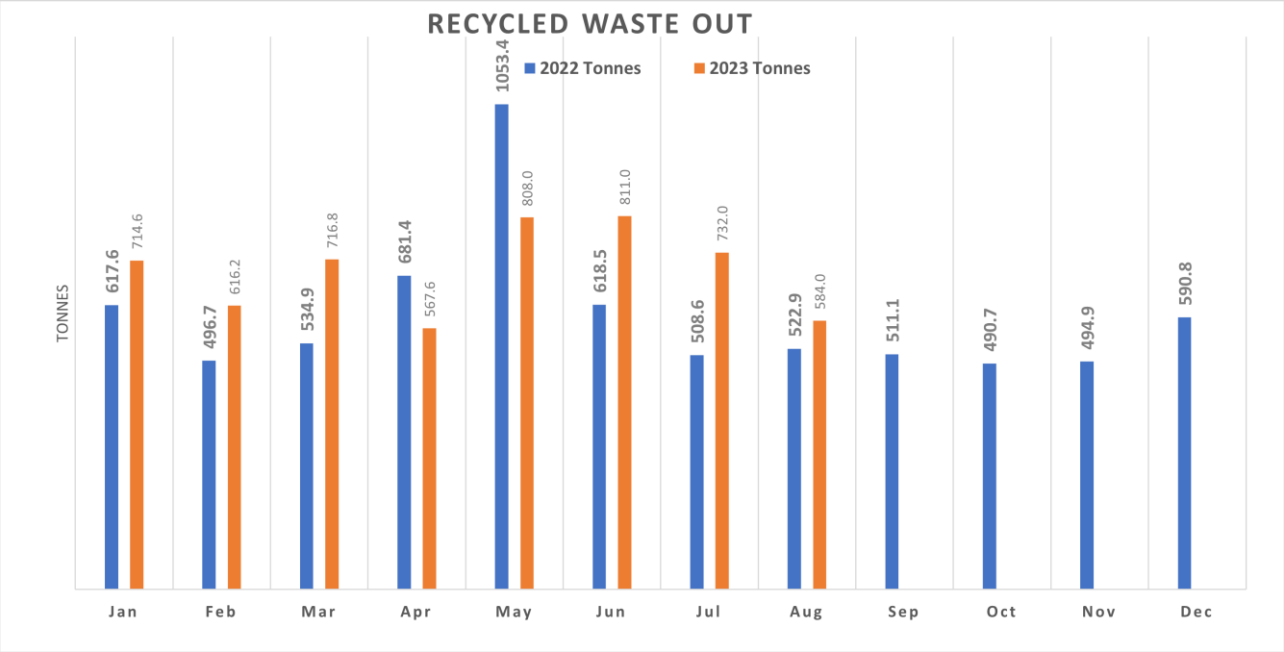
Monthly statistics are shown on the water reticulation main breaks and sewerage main breaks and chokes:

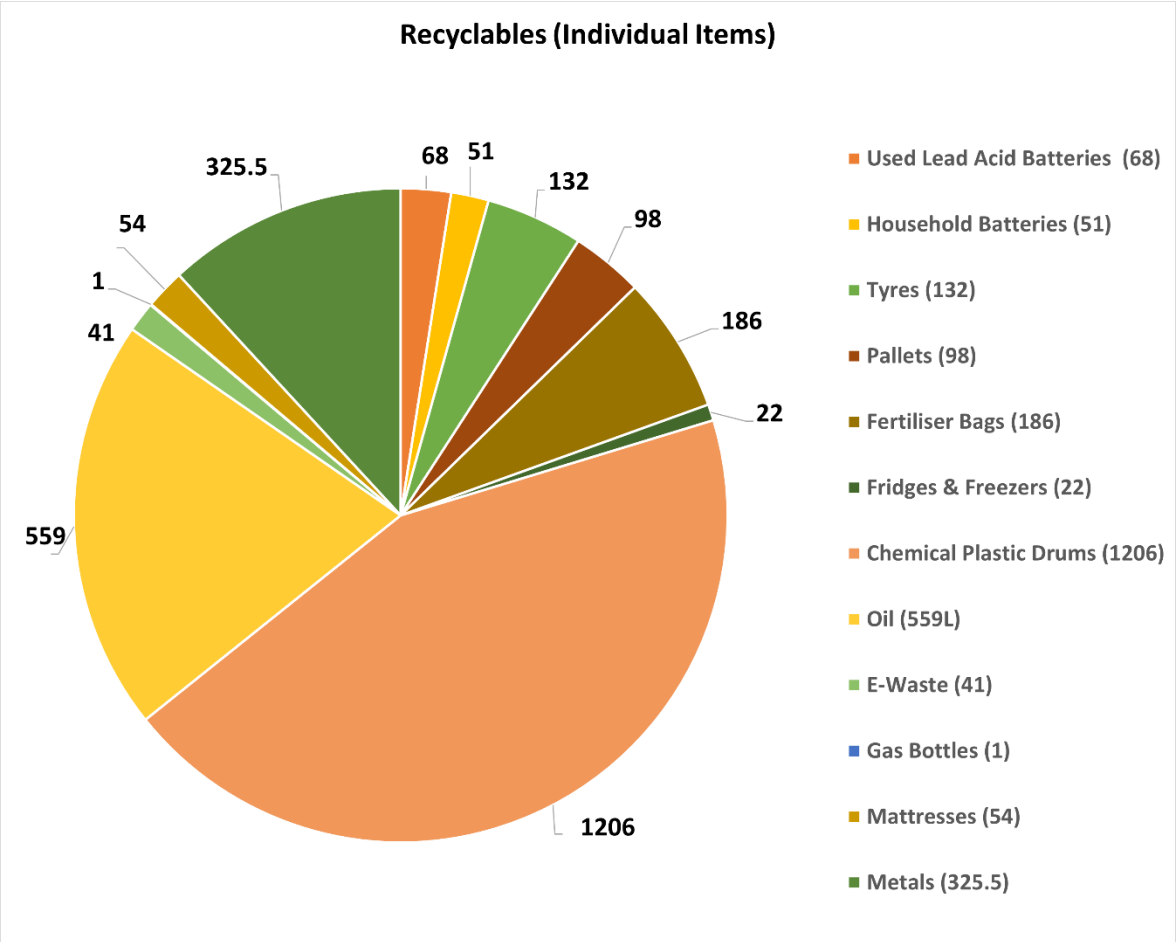


Waste Operations:

<u>Recycling</u>

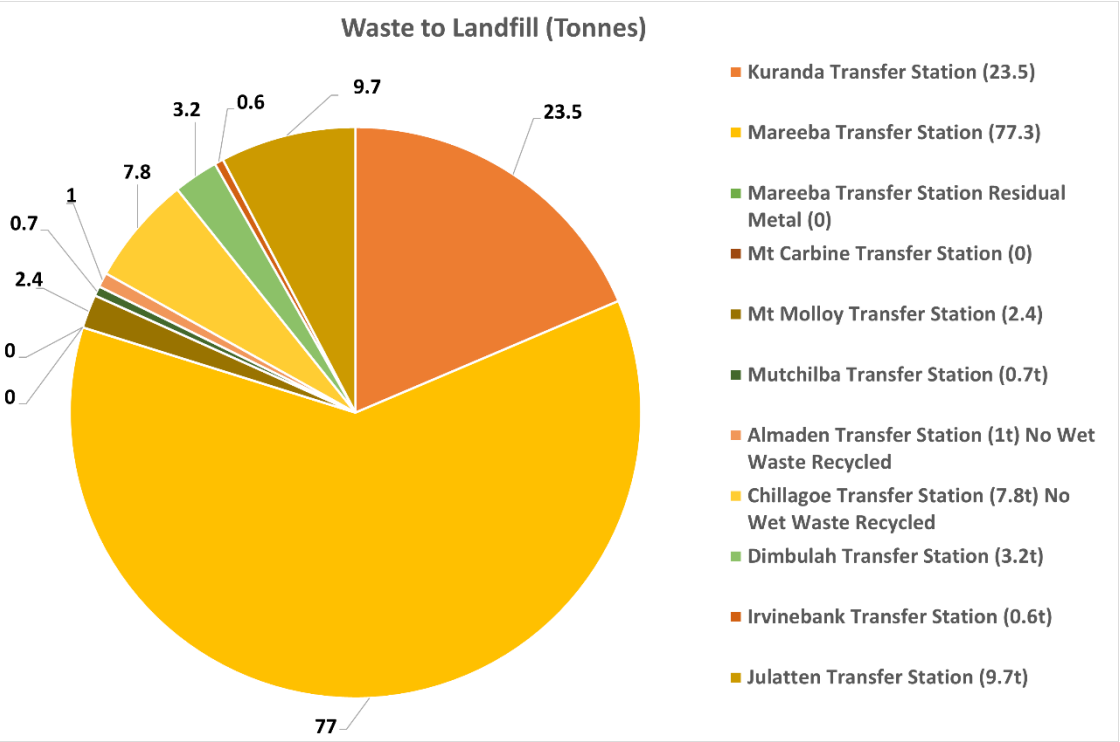
Waste material collected at each of the waste transfer stations are either deposited directly to the Springmount Waste Facility, recycled, or transported to the Veolia Advanced Resource Recovery Facility (ARRF) in Cairns for processing. During August, 507 tonnes of waste was processed through the ARRF, and 11.8 tonnes of domestic items were recycled at the MRF.





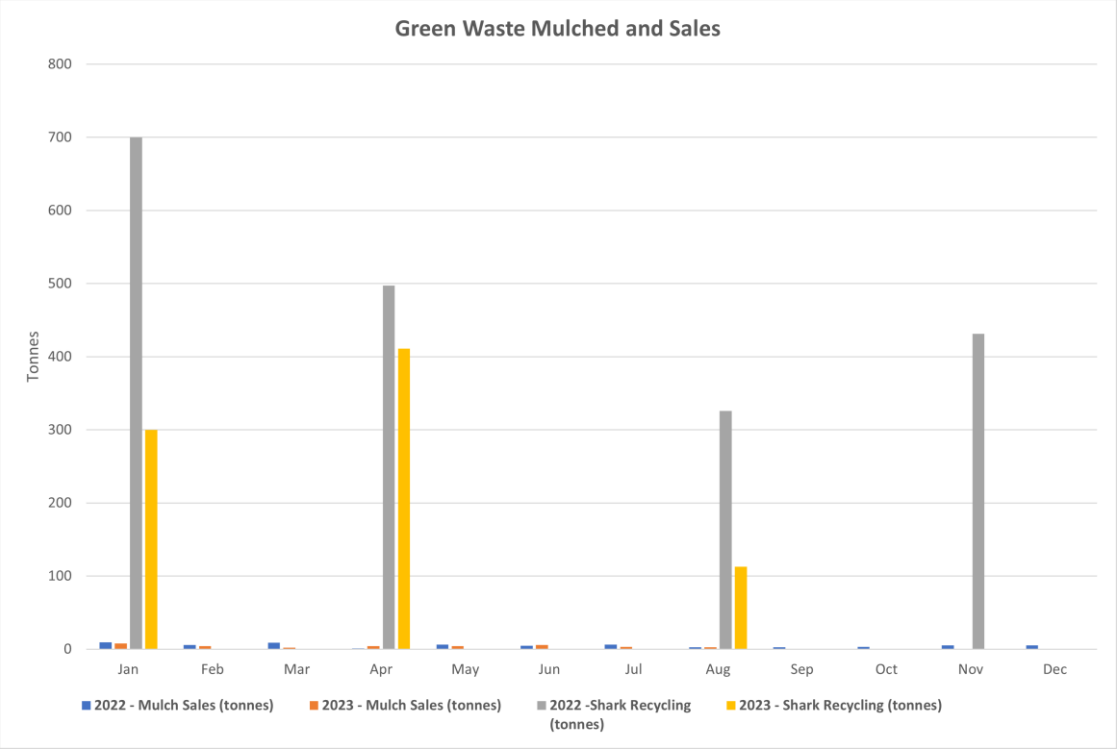
Waste to Transfer Stations

Transfer Station dry waste is transported off site to the Springmount Waste Facility. During August a total of 126 tonnes of waste was sent to landfill.



Green Waste

During August, Council received a total of 215.1 tonnes of green waste. Kuranda recorded 2.5 tonnes of green waste from locations registered as being potentially contaminated with Electric Ants. Green waste sales dropped slightly to 2.4 tonnes sold. Shark Recycling removed 112.8 tonnes of mulched green waste from Mareeba Transfer Station.



RISK IMPLICATIONS

Environmental

Council holds an Environmental Authority issued under the *Environmental Protection Act 1994* to operate landfill facilities.

LEGAL/COMPLIANCE/POLICY IMPLICATIONS

Nil

FINANCIAL AND RESOURCE IMPLICATIONS

Nil

LINK TO CORPORATE PLAN

Financial Sustainability: A council that continuously operates in a cost-effective manner while managing council's assets and reserves to ensure a sustainable future.

Transport and Council Infrastructure: The provision of quality services and infrastructure for our growing community that is planned and managed using sound asset management principles.

Economy and Environment: A resilient economy that promotes and supports the shire's natural assets and local industry and encourages investment while preserving and future proofing for generations to come.

Governance: Sound decision making based on effective frameworks and clear strategic direction to achieve regulatory compliance while delivering affordable levels of identified services within the Shire.

IMPLEMENTATION/COMMUNICATION

Nil

9.3 INFRASTRUCTURE SERVICES, WORKS SECTION ACTIVITY REPORT - AUGUST 2023

Date Prepared: **8 September 2023**

Author: **Manager Works**

Attachments: **Nil**

EXECUTIVE SUMMARY

The purpose of this report is to summarise Council's Transport Infrastructure, Parks and Gardens and Land Protection operational activities undertaken by Infrastructure Services during the month of August 2023.

RECOMMENDATION

That Council receives the Infrastructure Services, Works Progress Report for the month of August 2023.

BACKGROUND

Transport Infrastructure

Unsealed Road Maintenance Grading

Road	Locality
Hurricane Road	Hurricane
Adler Hill Road	Mareeba
Srhoj Road	Mareeba
Kovacic Road	Mareeba
Gilmore Road	Mareeba
Godfrey Road	Mareeba
Wright Road	Koah

Road	Locality
Copine Road	Mareeba
Shanty Creek Road	Mareeba
Shanty Creek Road North	Biboohra
Leonardi Road	Mareeba
Spurrier Road	Mareeba
Tinaroo Creek Road	Mareeba
Henry Hannam Drive	Mareeba

General Maintenance

Activity	Area
Shoulder Grading	Fichera Road
Sucker Removal	Drumduff Road
Unsealed Road Repairs	West Bischoff Mill Road, Lockyer Lane, Charles Street, Mt Lewis Road, Clacherty Road, Hillview Road, Nine Mile Road, Mt Perseverance Road, Jarrawee Road, McKenzie Street
Tree Removal	Mt Molloy, Julatten, Kuranda areas
Sealed Pavement Repairs	McIver Road
Footpath Repairs	Walsh Street, Atherton Street

Activity	Area
Signage Repairs & Replacement	Mareeba, Kuranda, Mt Mulgrave areas
Slashing/Brush Cutting	Mt Molloy, Kuranda, Julatten areas
Culvert Cleaning	Costin Street, Mareeba Airport
Roadside Drainage Works	Julatten, Mareeba, Koah areas
Removal OF Illegal Dumping	Mareeba area

Customer Requests

During the month of August, the Works Group received 114 Customer Requests (CRs) with 160 resolved (resolved requests include those received prior to August 2023). The table below shows the number of requests lodged per Works Section for the month.

Month	Roads	Parks and Gardens	Pest Management
August	80	27	7

At the time of reporting, the Works Group had 89 open requests.

TMR Routine Maintenance Performance Contract (RMPC)

During August, maintenance grading continued on the Burke Developmental Road (BDR) with crews reaching the Lynd River Causeway.

Pipe inspections were completed on the Kennedy Highway, Mareeba Connection Road and the Mossman – Mt Molloy Road and continued on the BDR.

Road Train restriction signage has been installed on the western and northern entrances to Mareeba township and minor seal widening of the Centenary Park entrance in Mareeba has been programmed for early September.

Parks and Open Spaces

Herbicide and brush cutting activities have commenced on the northern entrance to Mareeba township and will continue through the Bicentennial Lakes area on to the western streets. Mowing activities are now confined to irrigated areas when required.

Other activities undertaken in August include;

- Irrigation installation at Anzac Park
- Site preparation and shade sail installation for the Multi-Cultural Festival
- Tree trimming – Kuranda, Mareeba and Mt Molloy
- Sand soft fall revitalisation – Mareeba and Mutchilba parks
- Vegetation management to enable street sweeping activities
- Mareeba Cemetery mowing and brush cutting

Land Protection

Parthenium Weed: Inspections carried out on 13 sites. All landholders are complying with their biosecurity obligation. Council continues to monitor one (1) site every two (2) weeks with the other 12 sites inspected every three (3) weeks.

Siam Weed: Extended survey of all known Siam locations, survey distance of known infestations are;

- Holmes Creek, Mt Carbine 13Km
- Back Creek, Petford 13.5Km
- Sandy Creek, Mt Molloy 2.3Km
- Gorge Creek, Watsonville 5.7Km

Emu Creek - Multi Weeds: Work has continued on Emu Creek on the Walsh River catchment targeting Bellyache Bush, Physic Nut and Rubber Vine.

Amazon Frogbit: Work has started on Frogbit treatment on Chinaman Creek. Chinaman Creek has been identified as the upper limit of the infestation and the main focus of Frogbit at this time.

Invasive Turtles: The Senior Land Protection Officer assisted the Queensland Department of Agriculture and Fisheries install turtle platform in Mareeba Bicentennial Lakes. The platform is set in the middle of the lake, adjacent to Keeble Street, equipped with a motion detection camera to photograph any turtles that climb onto the platform for sun, and will be used to detect if any invasive turtle species inhabit the site.

Wild dogs: Four (4) properties have carried out 1080 baiting during the month of August, one (1) on upper Atherton Creek and three (3) on the Mitchell River catchment, totalling 676,569 hectares.

Wild Pigs: A total of nine (9) wild pigs were trapped and destroyed during the month. Eight (8) at Monaro Close, Kuranda and one (1) at Douglas Track, Speewah. Traps are now located in the Mutchilba and Dimbulah areas as per Customer Requests.

Invasive turtle platform

FINANCIAL AND RESOURCE IMPLICATIONS

Operating
All operational works are funded by the section specific 2023/24 maintenance budgets.

LINK TO CORPORATE PLAN

Financial Sustainability: A council that continuously operates in a cost-effective manner while managing council's assets and reserves to ensure a sustainable future.

Transport and Council Infrastructure: The provision of quality services and infrastructure for our growing community that is planned and managed using sound asset management principles.

Economy and Environment: A resilient economy that promotes and supports the shire's natural assets and local industry and encourages investment while preserving and future proofing for generations to come.

IMPLEMENTATION/COMMUNICATION

Nil

9.9 INFRASTRUCTURE SERVICES, TECHNICAL SERVICES OPERATIONS REPORT - AUGUST 2023

Date Prepared: **1 September 2023**

Author: **Manager Technical Services**

Attachments: **Nil**

EXECUTIVE SUMMARY

The purpose of this report is to outline Council's Fleet, Design, Soils Lab, Survey, Quality, GIS, Facilities and Investigation Services activities undertaken by Infrastructure Services during the month of August 2023.

RECOMMENDATION

That Council receives the Infrastructure Services, Technical Services Operations Report for August 2023.

BACKGROUND

Technical Services

Design, quality, and investigations:

Investigation activities undertaken in July included:

Activity	Current Requests	Closed Requests
Road Infrastructure Review	75	17
Drainage Investigations	24	4
NHVR Permit Applications	0	25
Traffic Count Surveys	0	0
Parks Investigations	5	0
Miscellaneous *e.g.* Planning; Local Laws	23	12
Before You Dig Requests	0	48

Soil Laboratory:

Council's Soil Laboratory provides NATA-accredited soil and material testing for internal and external services. Testing undertaken on internal Council projects include Bilwon Road, and Springmount Road.

Asset Inspections:

Facility asset condition and defect inspections continue, and a review of internal facility processes/practices is underway to seek efficiency improvements. Inspections are currently targeted towards assisting in the development of Asset Management sub plans.

Ongoing improvements to GIS data associated with water, sewerage, roads, underground stormwater, and kerbs asset data sets continues, as information is received from other areas of Council. An internal data improvement project for stormwater assets has resulted in improved asset and condition data within the Mareeba Township, with Kuranda Township soon to be completed.

Operational Works and Subdivisions

To ensure ongoing compliance with development conditions, both during construction and on-maintenance, Council undertakes routine inspection and monitoring of sites. The following developments remain current:

Locality	Subdivisions Name	Status
Kuranda	Jum Rum Rainforest Estate Stage 1, Fallon Road	Under construction
Mareeba	Amaroo Stage 13	Under construction
Mareeba	Prestige Gardens Stage 1-6	Under construction
Mareeba	Emerald End Road and Country Road	Under construction
Mareeba	Amaroo Stage 12	On-maintenance
Mareeba	7 Haren Street	On-maintenance
Koah	123 Fantin Road (Two Chain Road)	On-maintenance
Mareeba	Kenneally Estate Stage 4	Off-maintenance
Mareeba	The Edge Stage 3	Off-maintenance
Mareeba	Amaroo Stage 11	Off-maintenance
Mareeba	Mareeba Roadhouse and Accommodation Park, Williams Close	On-maintenance - Monitoring
Kuranda	112 Barnwell Road widening	Monitoring

Disaster Recovery Funding Arrangements (DRFA)

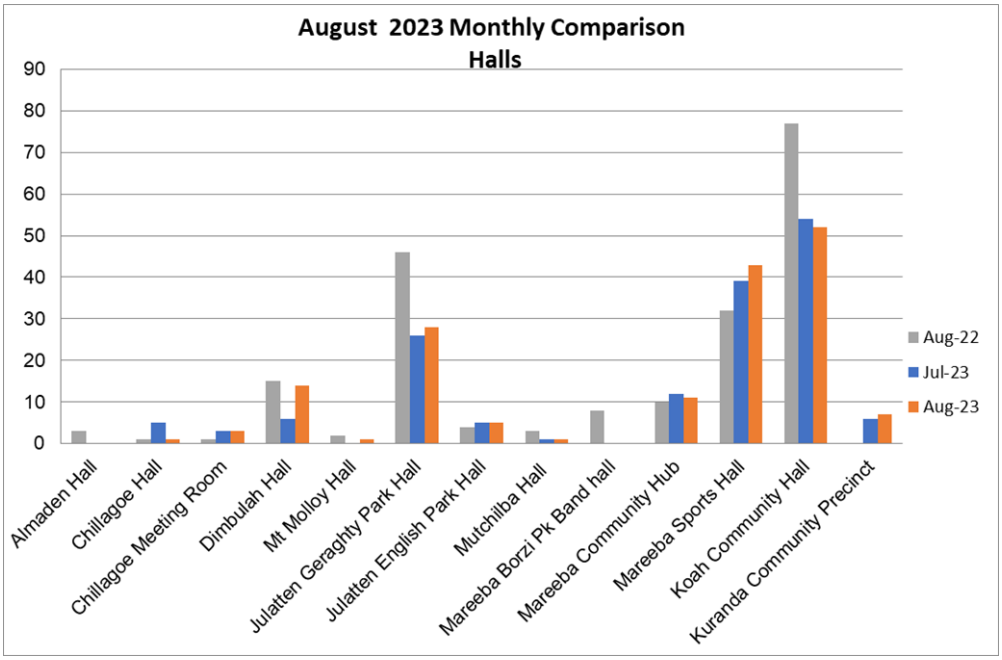
The DRFA is jointly funded by the Commonwealth and Queensland governments to help alleviate the costs of relief and recovery activities undertaken in disaster-affected communities by delivering recovery activities to return affected eligible assets back to pre-event condition. The status of declared disaster events currently being managed are provided below:

Program	Status
2022 DRFA	Mareeba Shire activated DRFA assistance measures linked Far North Queensland Low Pressure Trough, that occurred 1 – 7 February 2022. Contracts awarded for restoration works are progressing well, with the Western contract having reached practical completion.
2022 Betterment	Tenders have been received for the package of gully crossing improvements and are under evaluation. Tenders have exceeded the QRA funding amount and the scope is being reviewed in conjunction with QRA. Tender award planned for September Ordinary Council meeting.
Fallon Road	Geotechnical works to stabilise the embankment of Fallon Road continue. Minor delays due to wet weather have impeded progress, however works are nearing completion.
2023 DRFA	Activation for DRFA assistance occurred for the Northern and Central Queensland Monsoon and Flooding Event, 20 December 2022 – 30 April 2023. Emergent response activities were completed in July with the focus now on completing the damage assessments of the network for QRA submissions.

Facilities

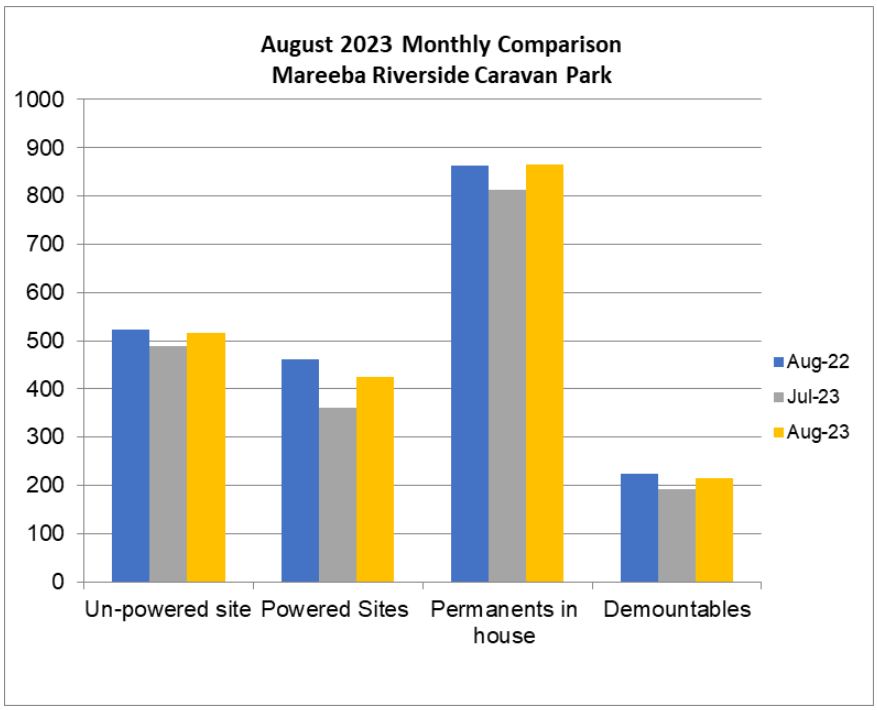
Community Halls:

Maintaining safe and efficient access to Council's Community Halls is recognised as an important aspect for the community's ongoing wellbeing. Attendance numbers comparative to previous months remained generally steady, however the utilisation against previous years was mixed.

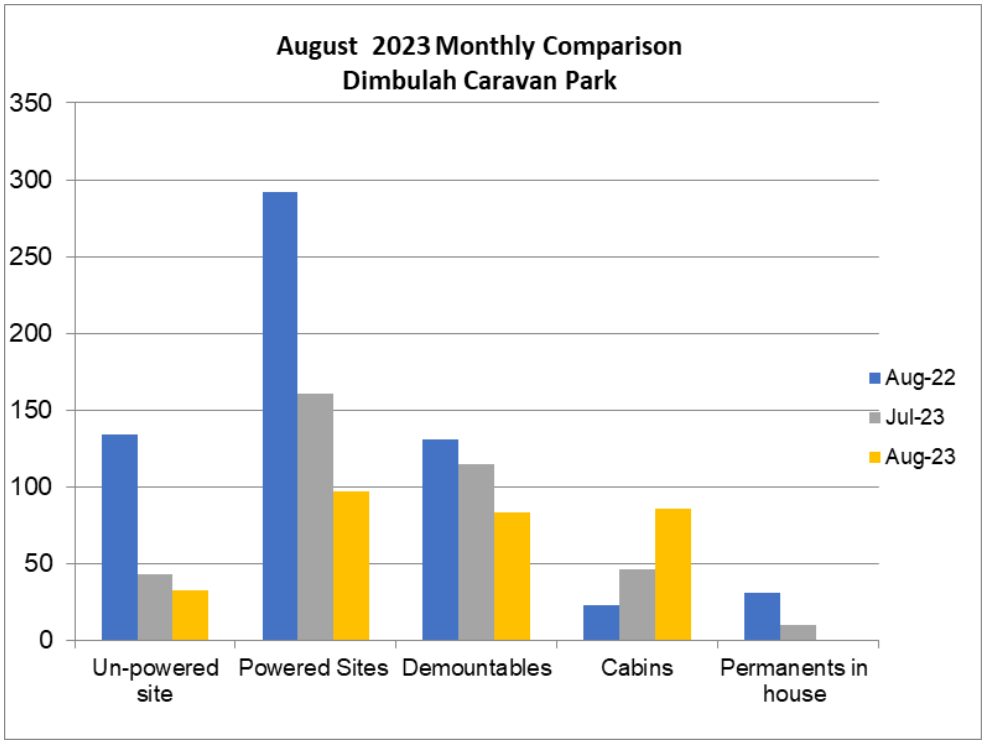


Caravan Parks:

Mareeba Riverside Caravan Park tenant numbers have remained steady across all sectors.

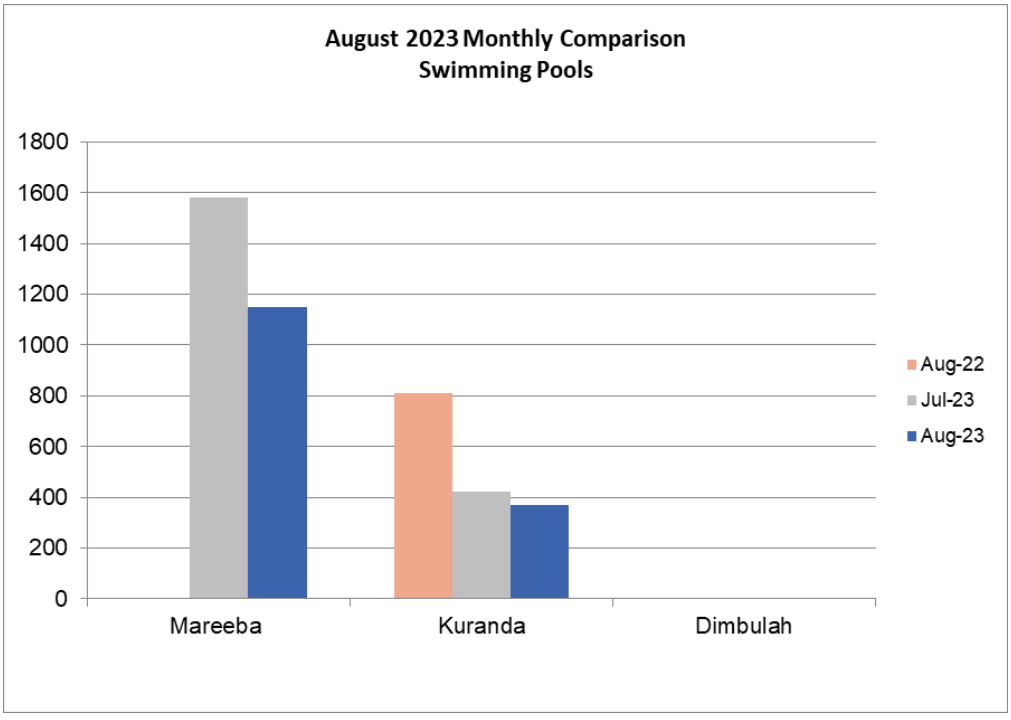


Dimbulah Caravan Park visitor numbers are generally reduced.



Aquatic Centres

Attendance numbers for Mareeba have weakened in August, which is generally attributable to unfavourable weather during the month, and numbers are expected to increase again in September. Dimbulah Pool is closed for winter and will re-open in early September.



Vandalism & Graffiti:

During August, nine (9) reports of vandalism were recorded for Council facilities, with annual costs provided below;

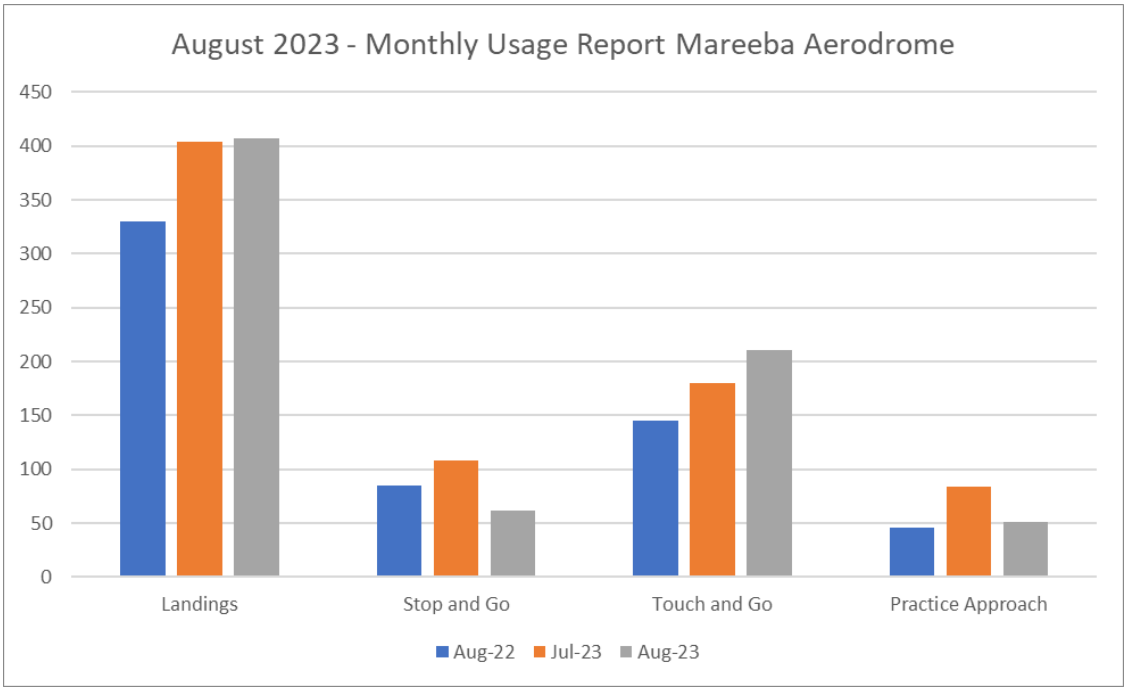
Financial Year	Actuals	Comments – August 2023
2015/16	$ 2,134.00	• Mareeba Firth Park - Vandalism x1
2016/17	$ 16,546.00	• Mareeba Rankin St Office – Vandalism x1
2017/18	$ 23,948.00	• Mareeba Davies Park Toilets – Vandalism x2
2018/19	$ 14,851.00	• Mareeba Arnold Park Toilets – Vandalism x1
2019/20	$ 14,211.18	• Mareeba Borzi Park Band Hall – Vandalism x1
2020/21	$ 62,199.62	• Kuranda Centenary Park Toilets – Vandalism x1
2021/22	$ 48,301.12	• Kuranda Community Precinct Toilets – Vandalism x1
2022/23	$33,030.18	• Dimbulah Memorial Park Toilets – Vandalism x1
2023/24	$943.85	

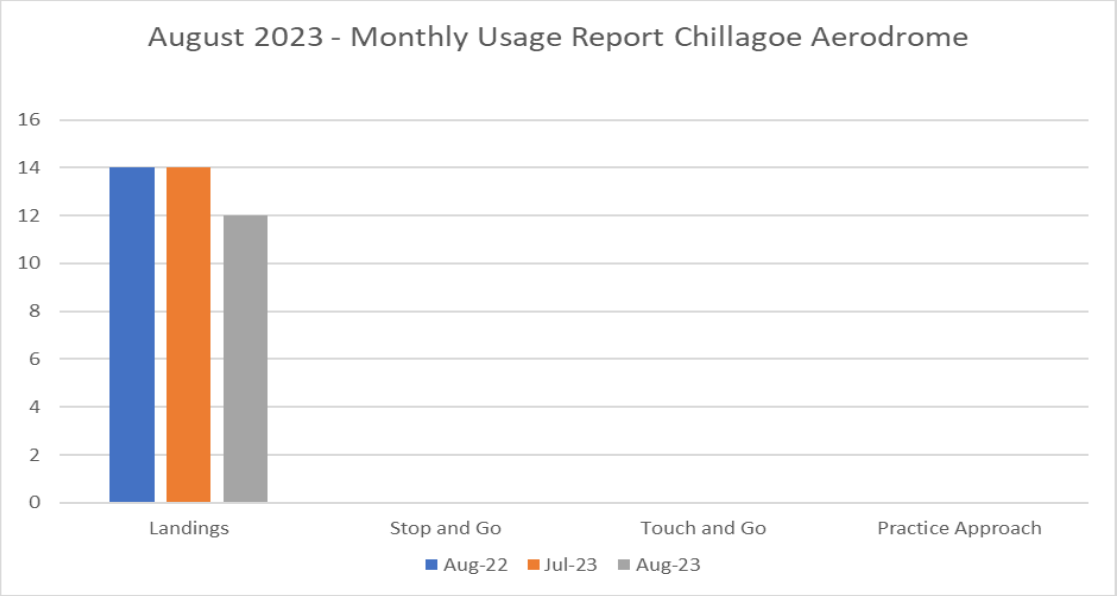
Note - actuals for vandalism/graffiti do not reflect costs to repairs during that period. Incoming expenses for repairs carry over until works are completed.

Aerodromes:

The data recorded below is current for the month of August, however there is usually a lag of some data for each current month from the service provider, which continues to be updated into the next month.

Landings for both facilities are comparable with previous years.





FINANCIAL AND RESOURCE IMPLICATIONS

Operating

Additional cost associated with graffiti and vandalism is expected and will be accommodated within existing budget allocations.

LINK TO CORPORATE PLAN

Financial Sustainability: A council that continuously operates in a cost-effective manner while managing council's assets and reserves to ensure a sustainable future.

Transport and Council Infrastructure: The provision of quality services and infrastructure for our growing community that is planned and managed using sound asset management principles.

Community: An informed and engaged community which supports and encourages effective partnerships to enhance the liveability of the Shire.

Economy and Environment: A resilient economy that promotes and supports the shire's natural assets and local industry and encourages investment while preserving and future proofing for generations to come.