

9 INFRASTRUCTURE SERVICES

9.1 INFRASTRUCTURE SERVICES, CAPITAL WORKS MONTHLY REPORT - APRIL 2024

Date Prepared: 17 April 2024

Author: Manager Assets and Projects

Attachments:

1. Capital Works Highlights - April 2024 [↓](#)
2. Capital Works Summary - April 2024 [↓](#)

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 April 2024.

RECOMMENDATION

That Council receives the Infrastructure Services Capital Works Monthly Report for the month of April 2024.

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.

Infrastructure Services Capital Works Report

Project Highlights – April 2024



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

Waterway damaged in Ex-Jasper Flooding and will be reinstated with disaster relief funding.

Mason Street Playground

Toilet construction is complete and will be kept locked with construction fencing until the remaining playground works are complete. Refer Photo

Pump track and playground construction commenced February 2024 and is now well underway after some wet weather delays. Refer Photo.

Footpath renewal Connecting Mason Street to Flat Footbridge Footpath Renewal is complete. Additional footpaths within the new playground footprint are in procurement.

Picnic settings and seating have been dispatched from the supplier and have arrived ready for installation after the playground installation is complete.

Infrastructure Services Capital Works Report Project Highlights – April 2024



Bicentennial Lakes Pump Track Construction



Bicentennial Lakes Playground Construction – Flying Fox

Infrastructure Services Capital Works Report Project Highlights – April 2024



Bicentennial Lakes Playground Construction – Hill Slides



Bicentennial Lakes Southern Section New Public Toilet Construction

Infrastructure Services Capital Works Report Project Highlights – April 2024



Bicentennial Lakes Playground Area Connecting Mason Street to Flat Footbridge Footpath Renewal

Infrastructure Services Capital Works Report

Project Highlights – April 2024



Project Name: SES Building

Program: Cemeteries

Background

Kuranda SES building upgrades to improve the functioning of the operational base during disaster events and training. The extension of the existing SES Headquarters building will be utilised as a sheltered outside training. It will also provide an additional storage area for equipment and be utilised as a briefing/staging area or logistics point.

Scope of Work

Construction of a steel framed, class 10A open skillion structure (9m x 9m) built adjacent to the existing Kuranda SES headquarter building, with a new concrete slab and improved drainage.

Progress Update

Construction is complete and final certification has been received.



Kuranda SES Facility Prior to Upgrade Works

Infrastructure Services Capital Works Report Project Highlights – April 2024



Kuranda SES Facility – Concrete Slab Construction



Kuranda SES Facility Skillion Roof, Slab and Drainage improvement Completion

Infrastructure Services Capital Works Report

Project Highlights – April 2024



Project Name: Springmount Road Culvert and Curve Widening (Ch 11.35 – 12.7)

Program: Rural Roads

Background

Springmount Road is classed as a Local Road of Regional Significance (LRRS) under the Roads and Transport Alliance and a critical transport route, servicing the regional sugar mill and landfill facilities as well as quarrying and agricultural properties.

In 2020, Council received a request through the Traffic Advisory Committee from a representative from the heavy transport industry to widen several curves on Springmount Road to provide adequate lane widths to cater for heavy vehicles.

The project is jointly funded (50%/50%) by the Queensland Government under the Transport Infrastructure Development Scheme (TIDS) and by Council.

Scope of Works

The scope of works includes the widening and bitumen sealing of three narrow sections of pavement and extension of five (5) culverts between Chainage 11.35 and Chainage 12.70.

Progress Update

Works continued throughout April with the extension of two (2) major culverts. Constructing the culverts in the current weather conditions has been very challenging but good progress has been made. In May, earthworks will commence for the road widenings.



Culvert C1-C2 head & wingwall formwork



Culvert C1-C2 after apron installation



Culvert B head & wingwall formwork



Culvert B after apron installation

Infrastructure Services Capital Works Report

Project Highlights – April 2024



Project Name: Mareeba Water Plant Filtration System Upgrade

Program: Water

Background

As part of the Mareeba Shire Water Strategy, Council has committed to undertaking upgrades to the Mareeba Water Treatment Plant to cater for future growth and ensure that safe and reliable drinking water continues to be supplied to residents and businesses. One of these upgrades is replacement of the ageing filtration system through construction of a new 6-cell filter block.

In addition to its own funds, Council has received grant funding towards upgrade of the Mareeba Water Plant Filtration System through the Queensland Government's Building Our Regions program.

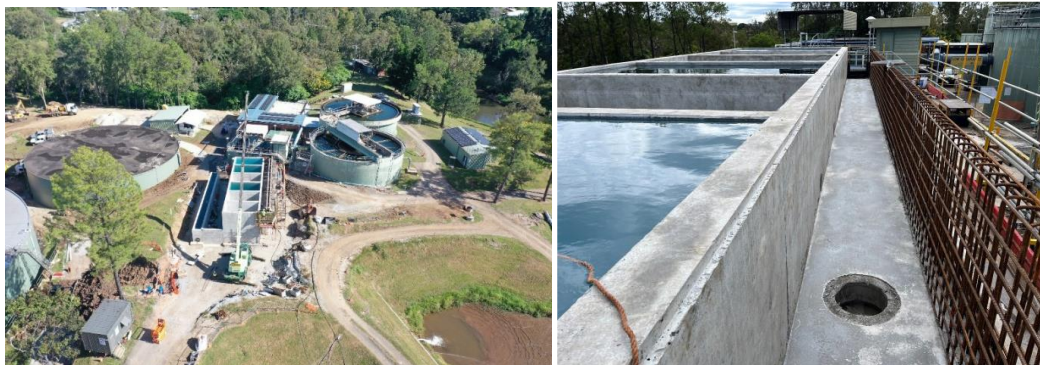
Scope of Works

The scope of works includes:

- Construction of a new filtration system consisting of 6 dual media filters with inlet valve/penstock and magnetic flowmeter
- Construction of small new building to house backwashing system
- Construction of a new backwashing system consisting of backwash pumps, air scour blowers, float switches, backwash control valves, filter to waste capability, connection to existing wastewater handling system and associated pipework and valves
- All necessary valve actuators, motors, drives and instrumentation for automated control of the filters and connection to existing electrical and SCADA control systems
- Modification of existing pipework to connect to new filters
- Earthworks and building approvals
- Commissioning and Testing
- Removal of redundant equipment

Progress Update

Works commenced and have progressed well with the contractor constructing the new filter cell modules and installing critical pipe work and electrical installation works.



Concrete construction of new filter cell modules and launders

Infrastructure Services Capital Works Report

Project Highlights – April 2024



Project Name: Mareeba Water Plant Booster Pump Station Project

Program: Water

Background

As part of the Mareeba Shire Water Strategy, Council has committed to undertaking upgrades to the Mareeba Water Treatment Plant to cater for future growth and ensure that safe and reliable drinking water continues to be supplied to residents and businesses.

The upgrading of the existing Mareeba Water Plant Booster Pump Station will achieve two (2) critical elements; to lift the firefighting capacity in the Mareeba Township area as there are significant and ongoing pressure issues on the western side of the township, and to ensure Council meets the minimum required water pressure standards to its residents due to increased residential developments particularly on the eastern side and to the southern side of Mareeba.

Mareeba Water Plant Booster Pump Station Upgrade is funded by the Federal Government through the Black Summer Bushfire Recovery Grants Program (BSBRGP) and Mareeba Shire Council.

Scope of Works

The project will upgrade the clear water pump station at the Mareeba township Kowa Street water treatment plant (WTP). The works to be completed are:

- Structural design and certification of new Mareeba BPS building and associated building services works (HVAC, Fire Protection and Building Hydraulics)
- Procurement of pumps, generators and VSD's;
- Construction of the Booster Pump Station including the provision of pumps, switchboards, generator and surge vessels;
- Connection of the new pump station to existing trunk water infrastructure;
- Site civil, pavements, conduits and drainage, and site reinstatement works;
- Construction of concrete slab mounted surge vessel on inlet to Centenary Park BPS and associated pipeworks; and
- Commissioning of the Booster Pump Station for Council operation.

Progress Update

Works commenced and have progressed well with the contractor undertaking numerous site works.

- Delivery of pump sets
- DN375 and DN450 discharge pipeline cut ins.
- Installation of electrical switchboards and motor VSD's

Infrastructure Services Capital Works Report Project Highlights – April 2024



Site building construction works and electrical switchboard equipment and booster pumps

Infrastructure Services Capital Works Report Project Highlights – April 2024



Project Name: Sewer Manhole Remediation Project

Program: Wastewater

Background

An allocation in the Capital Works Program has been provided to rehabilitate and replace Council's existing sewerage manholes to extend the life of these assets and reduce infiltration into the sewerage network during rain events. This provides further benefits through minimising the risk of sewage overflows and improving efficiency of Council's wastewater treatment facilities during the wet season by reducing inflows. This project is funded in the 2023/24 Wastewater Capital Works Program.

The current program has focussed on the sewerage reticulation network for the Granite Creek Pump Station catchment, specifically around the northern areas of Walsh Street south through to Herberton Street, to reduce inflow and infiltration. The works specification details the remediation works to be completed by a Contractor in this vicinity on sewer manholes (located within private and public property).

Scope of Works

The project comprises rehabilitating the sewerage manholes to extend the life of the assets and/or replace the manholes were deemed necessary and bring them up to FNQROC standard. In some instances, where the manhole is unable to be rehabilitated due to the extent of deterioration, it will need to be replaced.

Progress Update

The contract was awarded in September 2023 and works are due for completion by 30 June 2024. Works are progressing well despite inclement weather interrupting site works.



Sewer manhole remediation works

Infrastructure Services Capital Works Summary Report - April 2024



Project Code	Project Description	Project Stage	Project Comment
Program: 01 Rural and Urban Roads Reseal Program (Renewal)			
CP0001020	23/24 Reseal & Asphalt Program	Construction	Reseals commence 02/05/2024 in Dimbulah area.
CP00835	BETTERMENT Co-Contribution	Construction	Gully improvement works commenced on Hurricane Road.
Program: 02 Gravel Resheet			
CP0001022	23/24 Gravel Resheet Program	Construction	No re-sheeting works carried out during April. Further works to be programmed.
Program: 03 Urban Streets			
CP0001023	Recovery Way (WTS) Rehab Ch 0.176-0.272	Not Commenced	Quotations to be called in May.
CP0001024	Myola Rd Ch 0.2-3.06	Procurement	Letter of acceptance sent 01/05/24. Programme for delivery being prepared by contractor.
CP00791	Hastie/Constance Upgrade (School)	Completed	Works complete. Ergon have energized the street lights.
CP00795	TIDS 23-27 Herberton/Constance Inter	Design	Detailed Design and Bill of Quantities being finalised.
CP00797	TIDS 22/23 24/25 Rankin/Walsh St R'bout	Design	Detailed Design currently underway.
CP00943	Design Only McIver Rd Ch. 0.00-7.20	Design	Design to be completed mid-2024.
Program: 04 Rural Roads			
CP0000948	TIDS 23/24 Springmount Rd Ch 11.35-12.7	Construction	Culvert extensions continue. Wet weather causing some lost time & rework.
CP0000949	TIDS 23-25 Springmount Rd Ch 6.7-7.55	Procurement	Crews have been concentrating their efforts on CP0000948 culvert extensions as the weather has made it very difficult to undertake pavement works.
CP00801	TIDS Ootann Rd Section 1&2 Widen & Seal	Procurement	Construction of earthworks to commence from July 2024, with crews then planned to re-mobilise after the 24/25 wet season to complete pavement and sealing works by end of 2025.
CP00802	TIDS Springmount Rd - Ch13.2 to 18.1	Completed	As constructed and close-out activities in progress.
Program: 05 Bridges			
CP00711	Granite Ck Mba Replace Footbridge Deck	Construction	Work commenced mid March & recent rains have put the bridge underwater again. Will continue with the project when the water has receded.
CP00712	Palm Cl Mba Replace Footbridge Boards	Construction	Work will commence when weather is favourable.
CP00713	Bicentennial Lakes F/bridge Safety Upgr	Procurement	Handrail will be repaired early 2024. Materials procured.
CP00839	Bullaburrah Ck Rd C'way Relieving Slab	Not Commenced	Not commenced.
CP00840	Clohesy River Barron St Inspect & Design	Design	Draft Report received, review underway.
CP00841	Bolton Rd Inspect/Design/Repl Girders	Design	Draft Report received, review underway.
CP00842	Barron Riv. Bridge Oakforest Rd Insp/Des	Design	Consultant finalising plans and documentation.
CP00843	Barron River Cwy Henry H Dr Repl Slabs	Not Commenced	Not commenced.
Program: 06 Drainage			
CP0001021	23/24 Minor Culvert & C/ways Program	Construction	No additional repairs done under this program since March update.
CP00844	MBA Amaroo Drainage Upgrades	Design	Design works will commence as wet season permits.

Infrastructure Services Capital Works Summary Report - April 2024



Project Code	Project Description	Project Stage	Project Comment
CP00938	Tilse Street Upgrade Drainage	Construction	Project delayed due to wet weather conditions, however major works completed. Minor defect, close out activities to occur prior to end of April 2024.
Program: 07 Traffic Facilities			
CP0000947	Mareeba Aerodrome Safety & Repairs	Construction	RFQ for the upgrade of firefighting equipment to be called.
CP0000951	Anzac Ave LATM Upgrades	Procurement	Neighbourhood Entry Treatments and Speed Activated Signs procurement underway. Commencement of Masterplan for Anzac Avenue (Kennedy Hwy to Hastings Drive) to commence this Financial Year.
CP0001025	Design Only Byrnes St Accessibility	Planning	Draft CBD Stormwater Masterplan (Phase 2) received. Awaiting outcome of Grant funding prior to progressing further design.
Program: 08 Parking			
CP00715	Borzi Park Mba Carparking Masterplan	On Hold	On hold pending sporting clubs' grant applications.
CP00846	MBA Heritage Centre Carpark Extension	Design	Layout Plan and Quantities completed. Engagement to commence in mid 2024.
Program: 09 Footpaths			
CP0001026	23/24 Footpath Renewal Program	Construction	Bicentennial Lakes 80m section of old paver footpath replace with 2m wide concrete.
CP0001027	23/24 Footpath Upgrade Program	Planning	Propose to undertake works in conjunction with Lighter, Quicker, Cheaper Program.
Program: 10 Parks and Gardens			
CP0001028	Mary Andrews Park Repaint Play Equip	Construction	80% of the required replacements have been completed. Big Splash will be installing the last two components when they erect the the new play equipment at the Bicentennial Lakes.
CP0001029	Kda Com Precinct Parks Upgrade	Planning	Planning to progress in 2024.
CP0001030	Mba-Dim Rd/Mulligan Hwy Intersection	Not Commenced	Project currently being scoped for presentation at future council workshop.
CP0001031	Byrnes St Median Hedges (Lloyd-Granite)	Not Commenced	Project currently being scoped for presentation at future council workshop.
CP00805	Chillagoe Parks Improvement	Construction	Basketball court complete. Minor works to refresh Chillagoe Hall Playground still to be completed.
CP00806	DIM Parks Refresh	Construction	Swing set install commenced. Seat install for pump track commenced. Works to be completed mid May.
CP00807	KDA Centenary Park Playground Upgrade	Construction	Repurposed Hans Pehl signage structures have been installed. Awaiting outcome of Grant application for footpath improvements.
CP00809	MBA Bicentennial Lakes (Southern) D&C	Construction	Playground earthworks & site shaping complete. Equipment installation due to commence.
CP00817	MBA Byrnes St Medians	Not Commenced	Project currently being scoped for presentation at future council workshop.
CP00853	MBA Byrnes St Traffic Islands (BP)	Not Commenced	Project currently being scoped for presentation at future council workshop.
CP00855	MBA Connection Rd/Byrnes St Intersection	Not Commenced	Project currently being scoped for presentation at future council workshop.
CP00860	KDA Anzac Park Landscaping	Procurement	RFQ documentation for concrete works being prepared.
CP00861	KDA Coondoo Street Refurb	Design	On hold pending grant application outcome.
CP00862	KDA CBD Planter Boxes & Gardens	Not Commenced	On hold pending grant application outcome.
CP00865	IRV Bill Newburn Park Refresh	Procurement	The swing set to be installed by the contractor BigSplash once they have completed the Bicentennial Lakes playground project.

Infrastructure Services Capital Works Summary Report - April 2024



Project Code	Project Description	Project Stage	Project Comment
P00939	Roscommon Park -Renew Exercise Equipment	Construction	Contractor has submitted his sail layout and footing design to his Engineer for structural approval and issuing of a RPEQ Form 15.
Program: 11 Water			
P0001035	23/24 WTP Minor Infra Replace Program	Completed	Works are completed and waiting to clear final commitments so project can be closed out.
P0001036	23/24 AC Water Main Replace Program	Construction	Project completion has been delayed due to QRail not providing a Wayleave approval for an under bore under the rail network. Once the Wayleave approval is received the works can be completed.
P0001037	23/24 Water Telemetry/SCADA Upgrades	Construction	Work is underway and due for completion by end of June.
P0001038	23/24 Retic Valve/Hyd Replace Program	Construction	Wet weather has delayed the completion of works however now the weather has improved we should be able to complete works by 30 June.
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	Works are unlikely to be completed by 30 June as we need two key projects at the Mareeba WTP to be commissioned before we can finalise. Anticipated completion is September 2024.
P00733	BOR6 MWTP Filtration Upgrade	Construction	Project progressing well despite inclement weather affecting construction works.
P00824	MBA Clear Water Booster Pump Station	Construction	Works progressing although the inclement weather has had an adverse affect on this project with underground service installations disrupted due to rainfall. The project is expected to be completed on schedule despite the setbacks form the rain.
P00874	MBA WTP Raw Water Pumps & Electrics	Construction	Works are progressing though the major component of the works has been delayed due to aged infrastructure requiring replacement - two valves that were installed in the late 1950's early 60's are inoperable and need replacing.
P00876	BOR6 22/23 Water Forward Design Program	Design	Qld State Govt agreed to use funds for the design of a 10ML water reservoir, design to be completed by 30 June.
P00878	MBA Decommission 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.
P00882	WTP Minor Infrastructure Replacements	Completed	Equipment arrived and has been installed and project can be closed out if commitments are cleared.
P00883	MBA WTP Clarifier Infra Process Improv.	Completed	Design report completed and received.
Program: 12 Wastewater			
P0001040	Mba WWTP Purchase Forklift	Procurement	Fleet are sourcing a forklift which has been ordered and staff have started their forklift driver training.
P0001041	Mba WWTP Inlet Works Replacements	Construction	New inlet screens have been installed and commissioned and working well. There is some minor works yet to be completed and once these are done the project will be closed out.
P0001042	Kda WWTP Intet Works Replacements	Completed	New inlet screen installed and commissioned and working well. If commitments are cleared the project can be closed out.

Infrastructure Services Capital Works Summary Report - April 2024



Project Code	Project Description	Project Stage	Project Comment
P0001043	Atherton St Pump Station Refurb	Not Commenced	Project subject to grant funding.
P0001044	Robins St SPS Rising Main Upgrade	Completed	New sewer rising main installed and commissioned and redundant line grout filled. Some road reinstatement works yet to be done and minor pump station works are completed.
P0001046	23/24 WW Telemetry/SCADA Upgrades	Construction	Works well underway and due for completion by end of June.
P0001047	23/24 WW CCTV & Relining Program	Construction	Sewer relining works halted due to the package of pipes identified for relining are mostly PVC. Once the Sewer Fogging and CCTV works underway in Kenneally Estate are completed we can then identify underway and CCTV imaging is due for completion in about three months.
P0001048	SPS New Standby Generators	Construction	Electrical and telemetry connections underway and once completed project can be closed out.
P0001049	23/24 WW Manhole Rehab/Replace Prog	Construction	Works well underway despite inclement weather interrupting site works and project on schedule to be completed end of May early June.
P0001050	Kennedy Hwy PS Control Board Upgrade	Construction	New switchboard construction completed and due to be installed on site once the inclement weather improves.
P0001053	23/24 WWPS Refurbishment Program	Construction	Currently waiting on quotes from various contractors to undertake works identified in condition assessments. Once the quotes are received we can progress to getting the works done.
P00886	MBA Bi-Lakes Sewer Main Capacity	Completed	Project has been completed and once final progress claims have been processed the project can be closed out.
P00889	22/23 MBA Sewer CCTV & Relining	Construction	Sewer reticulation smoke detection and CCTV imaging works currently underway with an expected completion timeframe of end of June.
P00894	Minor WW Pump Station Refurbishments	On Hold	Subject to grant funding.
Program: 13 Waste			
P0001054	23/24 Mba L/Fill Leachate Pump Replace	Planning	On initial inspection it appeared the pumps were in reasonable condition, we've arranged for the pumps to be inspected again during May and if the pumps are still okay, they won't require replacing.
P0001055	23/24 Mba L/Fill PS Pump Replace	Planning	On initial inspection it appeared the pumps were in reasonable condition, we've arranged for the pumps to be inspected again during May and if the pumps are still okay, they won't require replacing.
Program: 15 Fleet			
P0001066	Fleet Replace #14 Grader Caterpillar	Completed	Grader delivered 19th March, available for service.
P0001067	Fleet Replace #401 Mini Excavator	Procurement	Procurement stage.
P0001068	Fleet Replace #619 Job Truck Tipper	Procurement	Truck has been delivered, currently at body fabricators having the body built.
P0001069	Fleet Replace #1206 Mitsu Pool Vehicle	Completed	New vehicle to be delivered 3 June 2024.
P0001070	Fleet Replace #1210 Mitsu Pool Vehicle	Completed	Vehicle delivered and in service 25th March 2024. Project completed
P0001071	Fleet Replace #1231 Toyota WW	Procurement	Vehicle has been ordered expected delivery date July 2024.
P0001072	Fleet Replace #1313 Nissan Dual Cab	Procurement	Vehicle delivered 22 March 2024, vehicle in final stages of fit out.

Infrastructure Services Capital Works Summary Report - April 2024



Project Code	Project Description	Project Stage	Project Comment
P0001073	Fleet Replace #1402 Mazda Oncall Veh	Completed	Vehicle delivered 25 March 2024. Fit out complete, vehicle in service.
P0001074	Fleet Replace #2055 Mitsu P&G	Procurement	Vehicle ordered, expected delivery July 2024.
P00427	GPS Vehicle Management System	In Progress (for the non-infrastructure projects)	As new equipment comes on line, Procurement will commence. Expected July 2024.
Program: 16 Depots and Council Offices			
P0001064	Mba Depot Admin Building Refurb	Construction	Stage 1 works to be completed 13 May.
P00759	Kowa St MSC Depot Emergency Generator	Planning	Investigation underway.
P00940	Kowa St MSC Depot New Fuel Bowser	Procurement	Budgetary estimate received for works, detailed quotes to be sourced for Bowser Replacement.
Program: 17 Community Buildings			
P0000950	Cedric Davies Hub Disaster Resilience Up	Completed	Variation raised to removed damaged louvre windows from western side of building and replace with fixed pane with vent window section.
P0001059	Mba/Dim Aquatic Condition Assessment	Planning	Condition Assessment scope of works in development.
P0001062	23/24 Amenities Refurbishment Program	Construction	Painting completed. Due to the football season starting the epoxying the floors have been deferred to be completed by June 2024.
P0001063	Davies Park Lighting Upgrade	Design	Project on hold, awaiting Grant application.
P0002902	SES SUPPORT Kda SES External Facility	Completed	Final Certification received.
P00749	Aquatic Facility Upgrades & Splash Park	Construction	Preliminary switchboard design & Ergon approval process complete. Design plans RPEQ approved. Ergon Solar notified of upgrade works. UG cabling upgrade works due to commence in preparation for the new switchboard installation and change out.
P00793	MBA Women's Restroom Refurb	Construction	Options report to be developed for facility.
P00819	22/23 Shire Toilet Facility Repl Program	Construction	Epoxy flooring at Davies Park has been postponed due to the football season commencing. Works are programmed to be completed by end of June 2024.
P00905	KDA Community Prec. Toilet Refurb	Completed	Painting works completed.
P00909	KDA Aquatic Cnt 25m Pool Aquaris Upgrade	Procurement	Awaiting receipt of 2nd & 3rd quotes from suppliers, it has proven difficult to source contractors for works.
P00941	23/24 Park/Sporting LED Lights Arnold Pk	Design	Quotes to be called for works.
P00942	22/23 DIM Town Hall A/C/Solar/Lighting	Construction	Works commenced. Works scheduled for completion 28 June 2024.
Program: 18 Non-Infrastructure Items			
P0000946	Mba Cemetery New Mausoleum Wall	Construction	Concrete apron complete.
P0001058	WAT Cemetery Lawn Plaque on Beam	Not Commenced	Beam will be installed after the wet season.
P0001085	Mba Cemetery Expansion Planning	Planning	Investigations into alternative options to commence.
P00446	Kuranda New Cemetery	Construction	Toilet complete & lawn beam installed. General tidy up planned in preparation for burials to commence.
P00932	MBA MIP Expansion	Design	Draft Masterplan under review.

9.3 INFRASTRUCTURE SERVICES, TECHNICAL SERVICES OPERATIONS REPORT - APRIL 2024**Date Prepared:** 17 April 2024**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 April 2024.

RECOMMENDATION

That Council receives the Infrastructure Services, Technical Services Operations Report for April 2024.

BACKGROUND**Technical Services**Design, quality, and investigations:

Investigation activities undertaken in April included:

Activity	Current Requests	Closed Requests
Road Infrastructure Review	59	23
Drainage Investigations	34	12
NHVR Permit Applications	0	23
Traffic Count Surveys	0	8
Parks Investigations	2	2
Miscellaneous e.g. Planning; Local Laws	22	23
Before You Dig Requests	0	45

Soil Laboratory:

Council's Soil Laboratory provides NATA-accredited soil and material testing for internal and external services. The extended wet season has continued to limit the quantity of testing in April, however 136 tests were completed with the majority being for external clients.

GIS

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.

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	On-maintenance
Kuranda	Christiansen Road, Myola Heights – Stage 2a	On-maintenance
Mareeba	Prestige Gardens Stage 5-6	Under construction
Mareeba	Emerald End Road and Country Road – Stage 3	On-maintenance
Mareeba	Emerald End Road and Country Road – Stage 4	Under construction
Mareeba	The Rise – Catherine Atherton Drive – Stage 3	On-maintenance
Mareeba	Amaroo Stage 13a	On-maintenance
Mareeba	Amaroo Stage 12 – Drainage Infrastructure	On-maintenance
Mareeba	Prestige Gardens Stage 1-4	On-maintenance
Mareeba	Prestige Gardens Stage 5-6	Under construction
Mareeba	7 Haren Street	On-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	Far North Queensland Low Pressure Trough, that occurred 1 – 7 February 2022. All contracts achieved practical completion prior to end of calendar year (excluding defects), with the exception of Gamboola Crossing bridge which was demobilised prior to wet season, with work on deck units to be undertaken over the wet.
2022 Betterment	Contract has commenced with works planned for completion by end of 2024 dry season.
2023 DRFA	Northern and Central Queensland Monsoon and Flooding Event, 20 December 2022 – 30 April 2023. Contracts for the reconstruction of essential infrastructure were awarded April 2024.
2023 Cyclone	Declared event December 2023 - 'Tropical Cyclone Jasper, associated rainfall and flooding, 13 – 28 December 2023'. Emergency response activities continue, with the QRA providing an extension to the Emergent Period. Damage assessments are continuing. Julatten, Mt Lewis Road, Bridge: a pedestrian bridge was installed to provide secure access to residents, with the Bridge Replacement Tender prepared for release. Emerald End Road: a temporary bridge remains in place until replacement structure is constructed. Tender for reconstruction works planned to be called May 2024.

Facilities

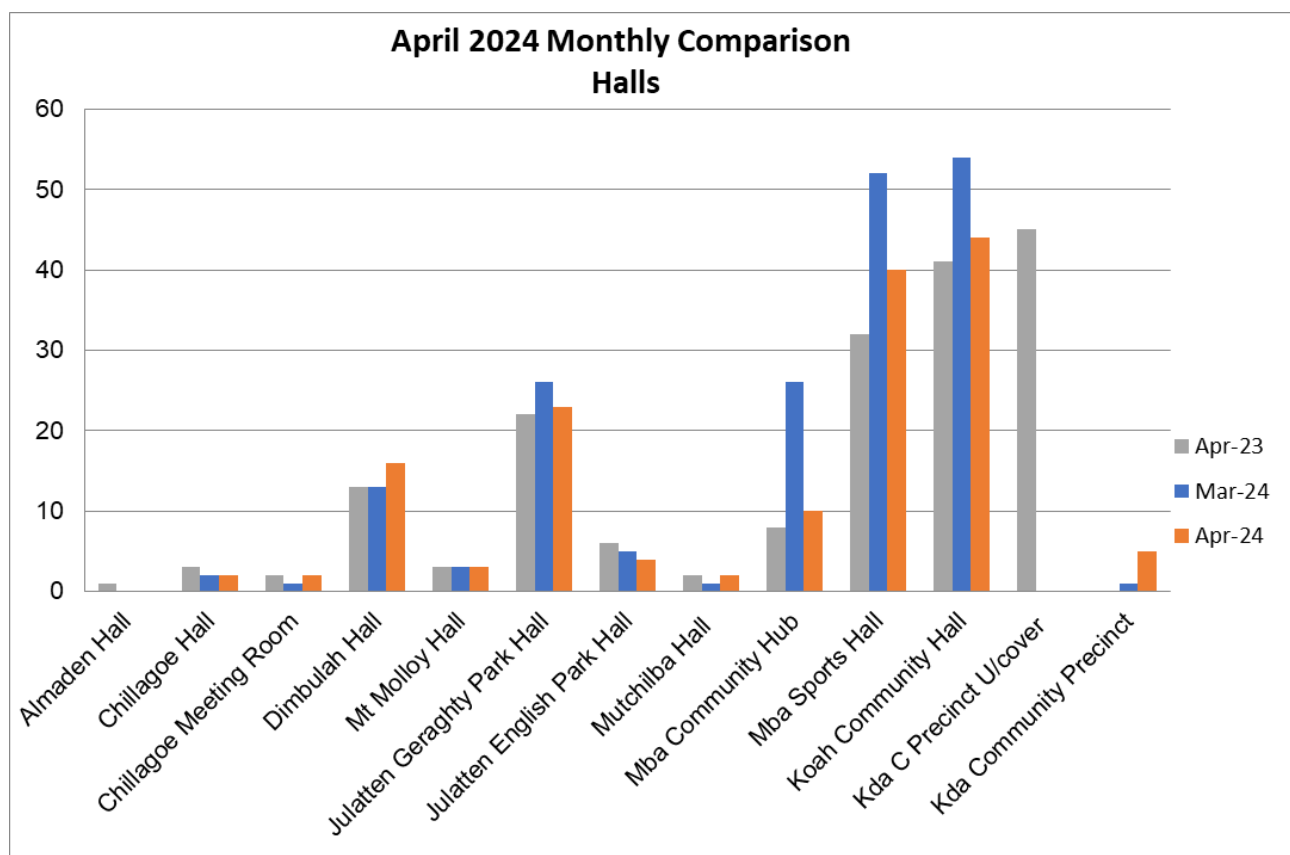
Asset Inspections:

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.

Facility maintenance programs, arising from the defect listing, are progressing well with works underway at numerous facilities.

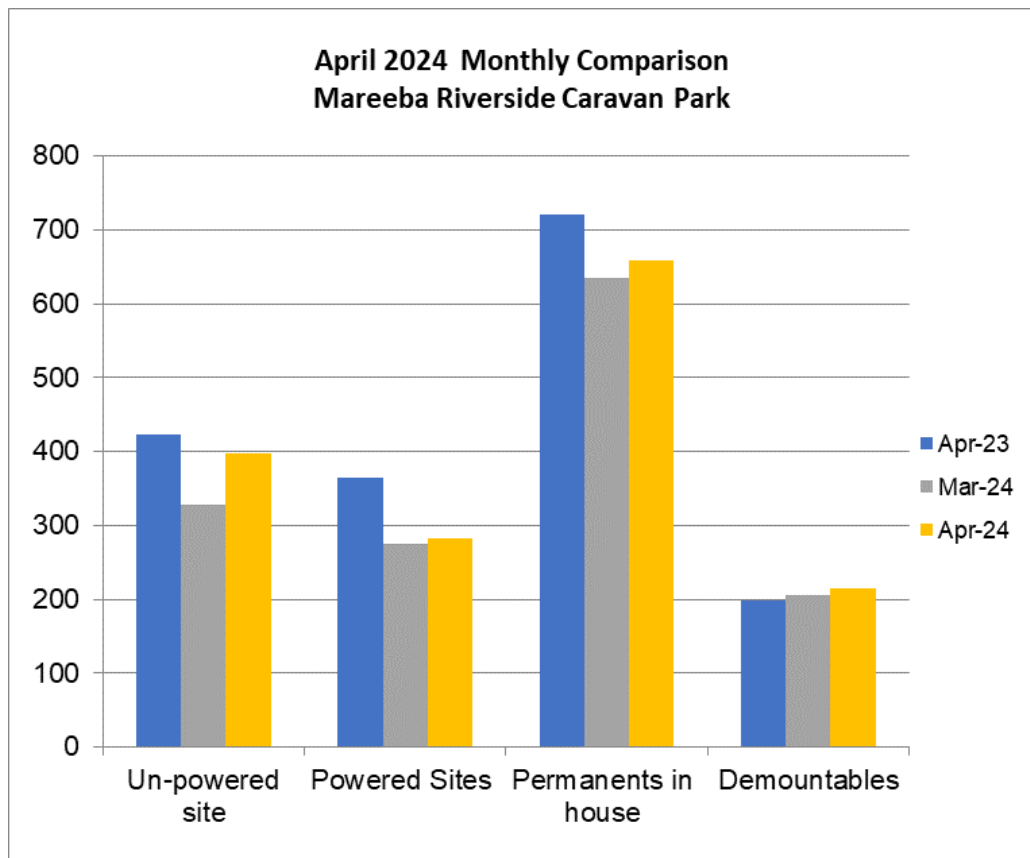
Community Halls:

Maintaining safe and efficient access to Council's Community Halls is recognised as an important aspect for the community's ongoing wellbeing. Although the impacts of Cyclone Jasper continue, utilisation remains strong across almost all facilities.

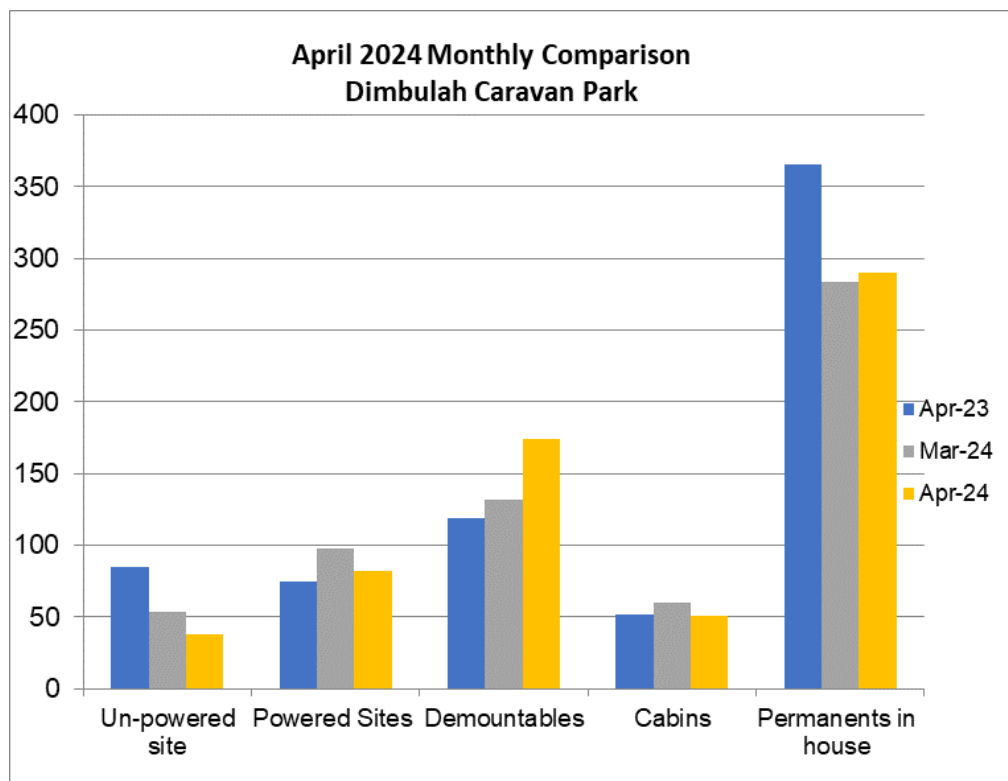


Caravan Parks:

Mareeba Riverside Caravan Park tenant numbers have remained consistent across all sectors with a slight increase in unpowered sites.

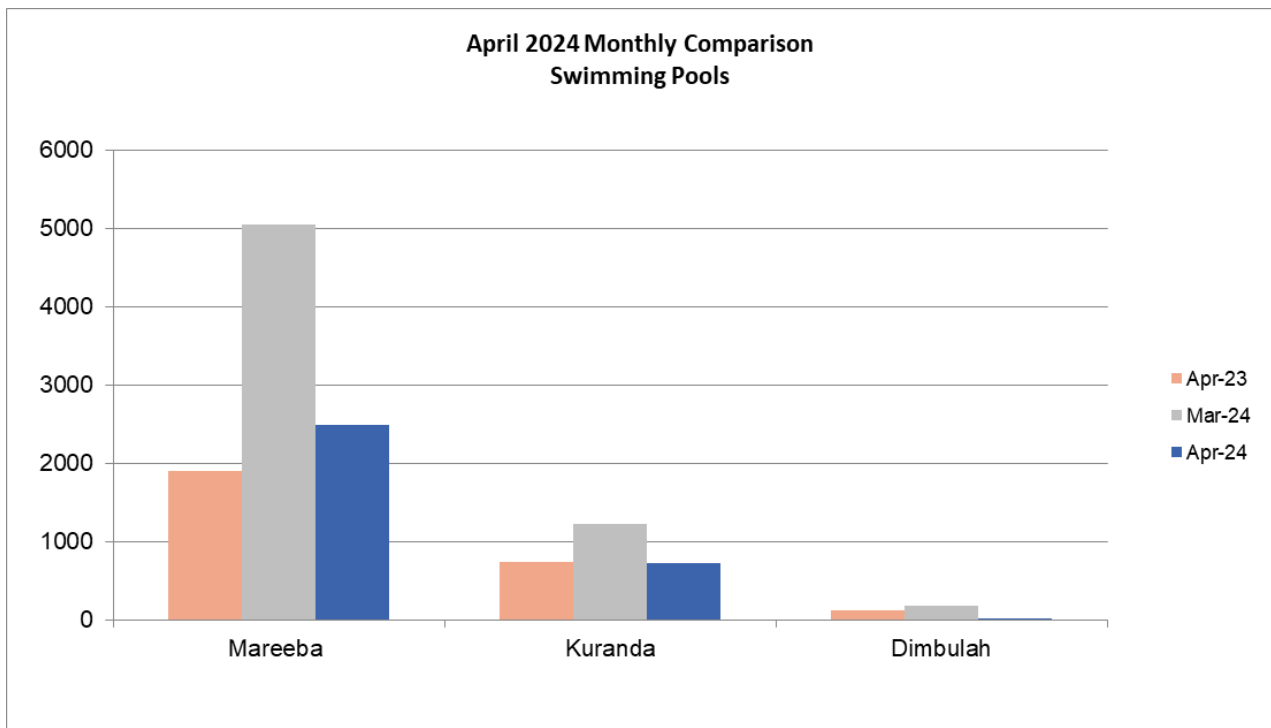


Dimbulah Caravan Park user numbers (total) have generally remained consistent.



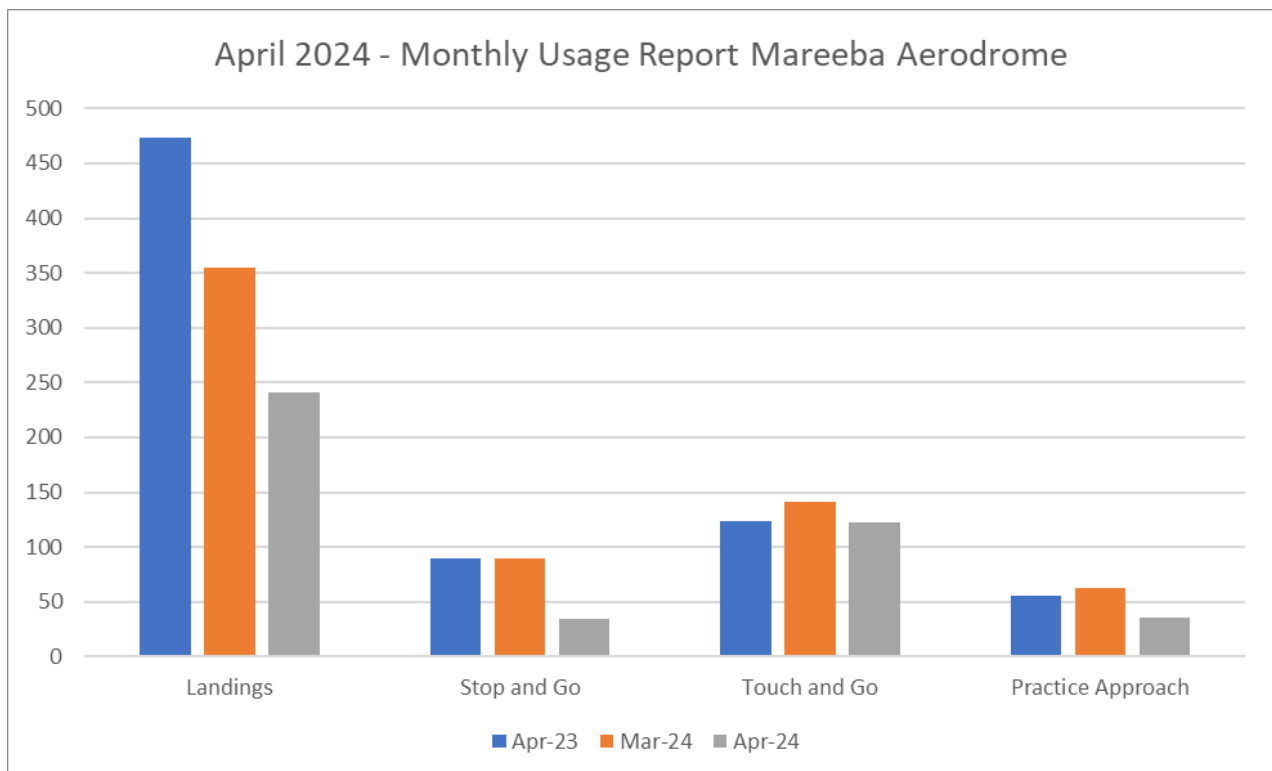
Aquatic Centres

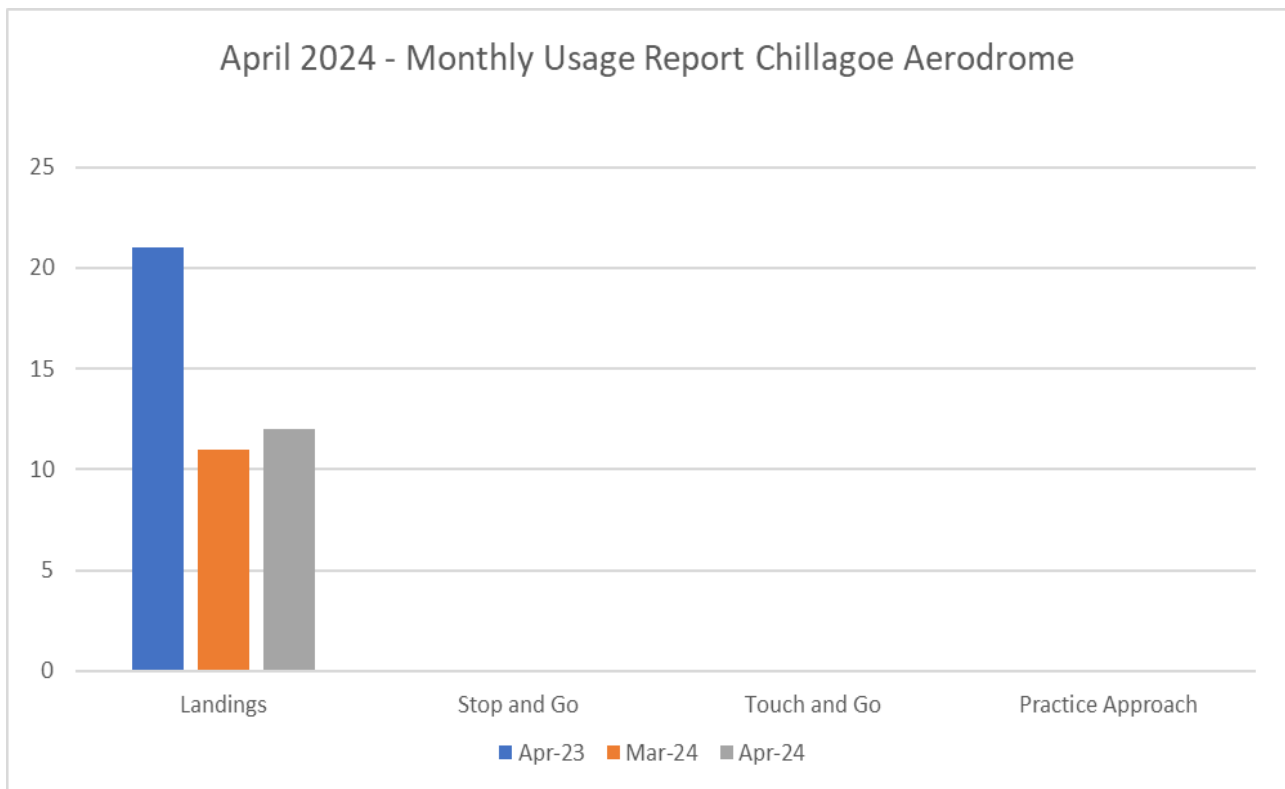
Attendance numbers have shown indications of a potential winter slowdown when compared to March numbers. Some further reduction in utilisation was recorded for Dimbulah.



Aerodromes:

The data recorded below is current for the month of April, 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.





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

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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.

9.5 INFRASTRUCTURE SERVICES, WATER AND WASTE OPERATIONS REPORT - APRIL 2024

Date Prepared: 17 April 2024
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 April 2024.

RECOMMENDATION

That Council receives the Infrastructure Services, Water and Waste Operations Report for April 2024.

BACKGROUND**Water and Wastewater Treatment:**

All treatment plants are generally performing satisfactorily. Planning to repair damage to Kuranda Water Treatment Plant intake infrastructure which resulted from Cyclone Jasper and ongoing rain is continuing. Wastewater treatment plant volumes have been high due to rainfall and flooding caused by wet weather events.

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)	7,711	701	196	245	145
Number of Connections	4,141	1053	127	246	111
Average daily water consumption per connection (L)	1,862	665	1,544	995	1,309

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

Wastewater Treatment	Mareeba	Kuranda
Wastewater Plant average daily treatment (kL)	5,301	236
Number of Connections	3,519	356
Average daily inflow per connection (L)	1,506	664

Mareeba Water Treatment Plant Upgrades:

Three (3) critical infrastructure projects at the Mareeba Water Treatment Plant (MWTP) have commenced 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 water to residents and businesses in Mareeba now and into the future. Completion of the upgrades is programmed for mid-2024 for the booster pump station and raw water pump station projects and late 2024 for the filtration project.

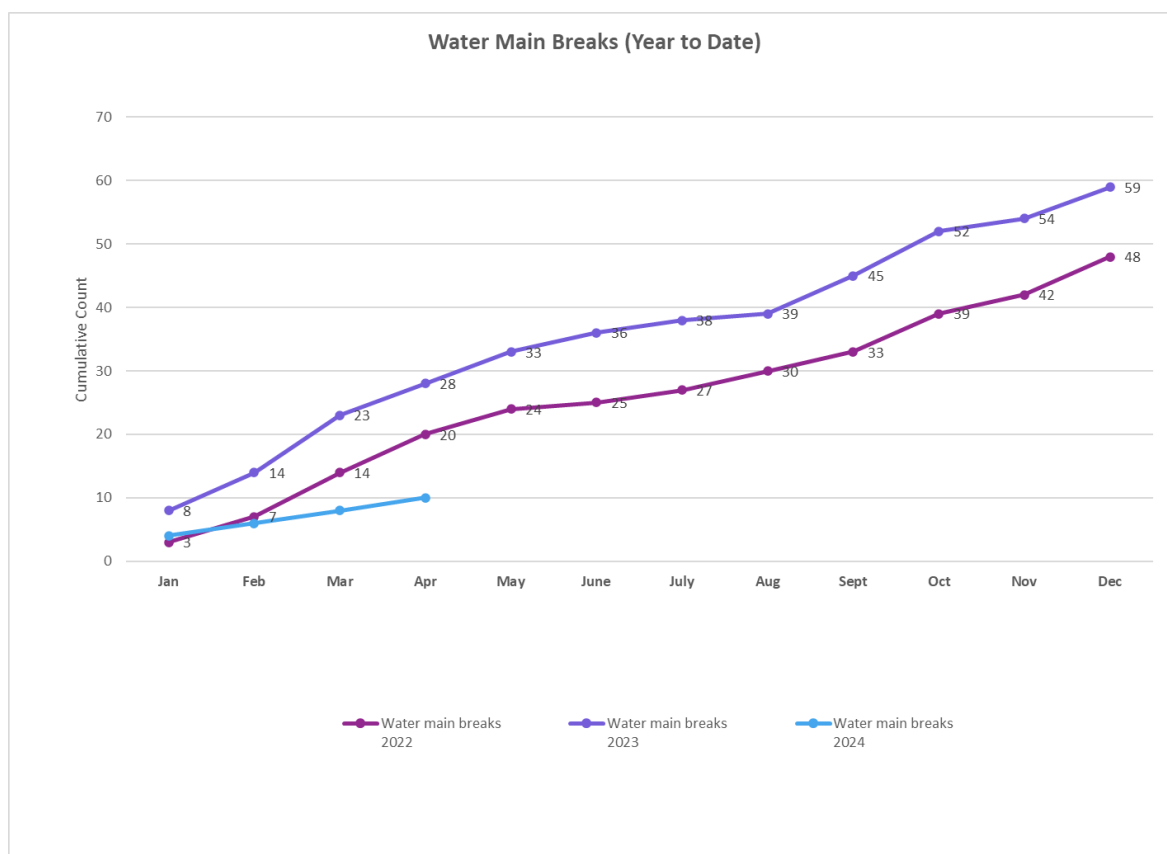
While these works occur at the Mareeba Water Treatment Plant there may be disruptions from time-to-time. As a result, the community has been asked to conserve water and reduce consumption during the upgrades. It may be necessary to introduce water restrictions to enable certainty of water supply to residents.

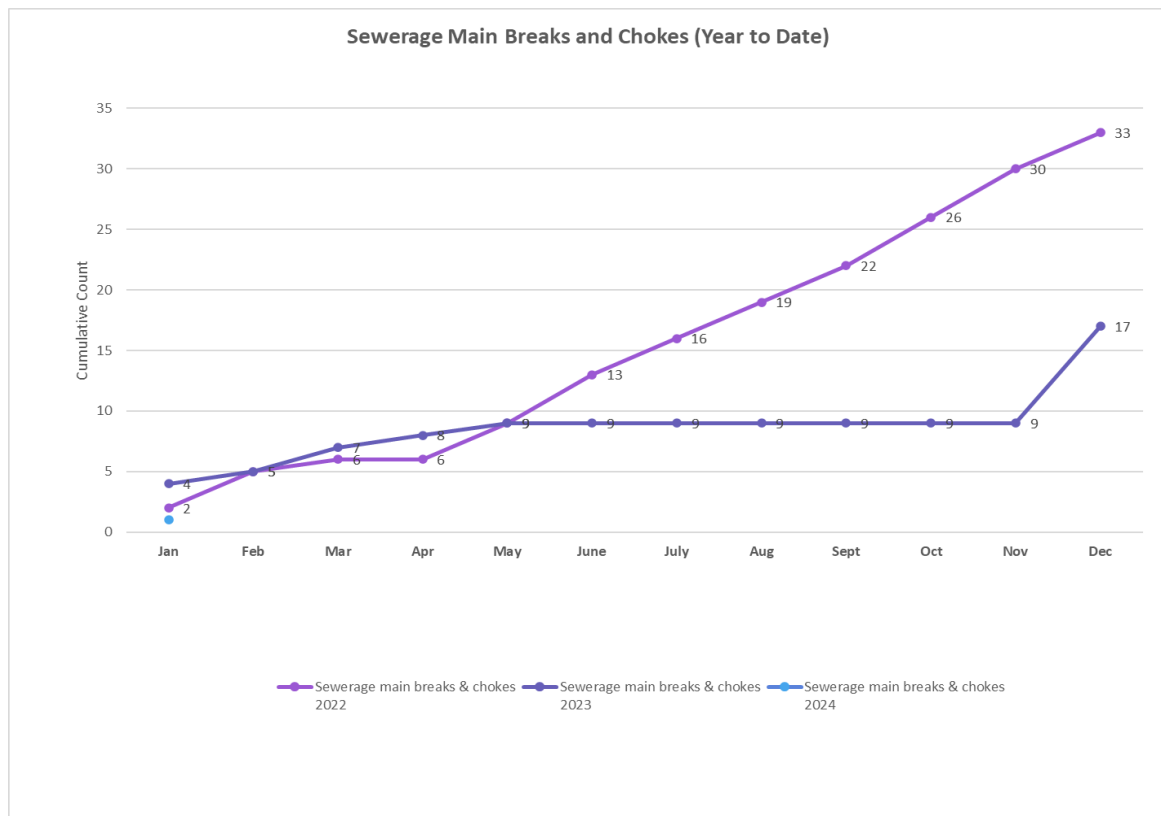
Water and Wastewater Reticulation:

Council's water reticulation crew attended to two (2) water main breaks, and two (2) sewer main breaks/chokes this month, and average response times were within targets set out in Council's customer service standard for water services.

The temporary solution to address the blockage of the Lloyd Street sewer in Mareeba continues to operate to mitigate wastewater discharges to the Barron River which ceased in February. Planning for a long-term solution is underway. The various regulators are satisfied with Council's response to the incident which is now closed out and they have advised that no regulatory action against Council will be taken.

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

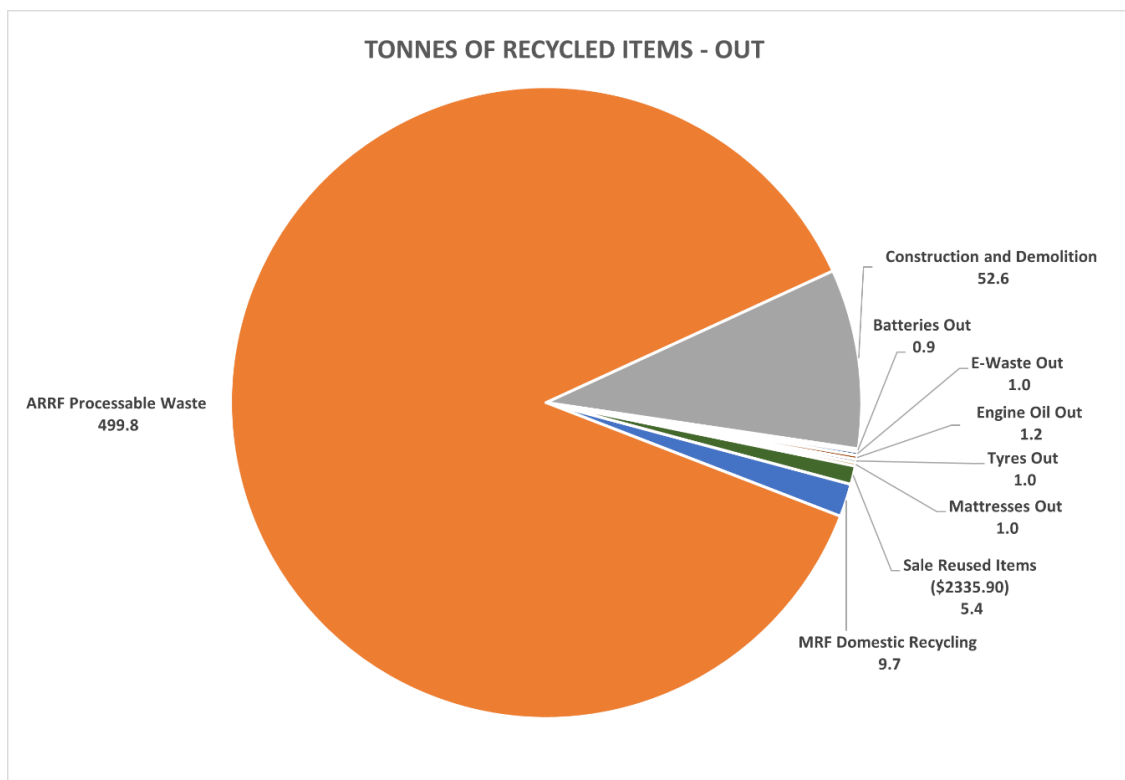




Waste Operations:

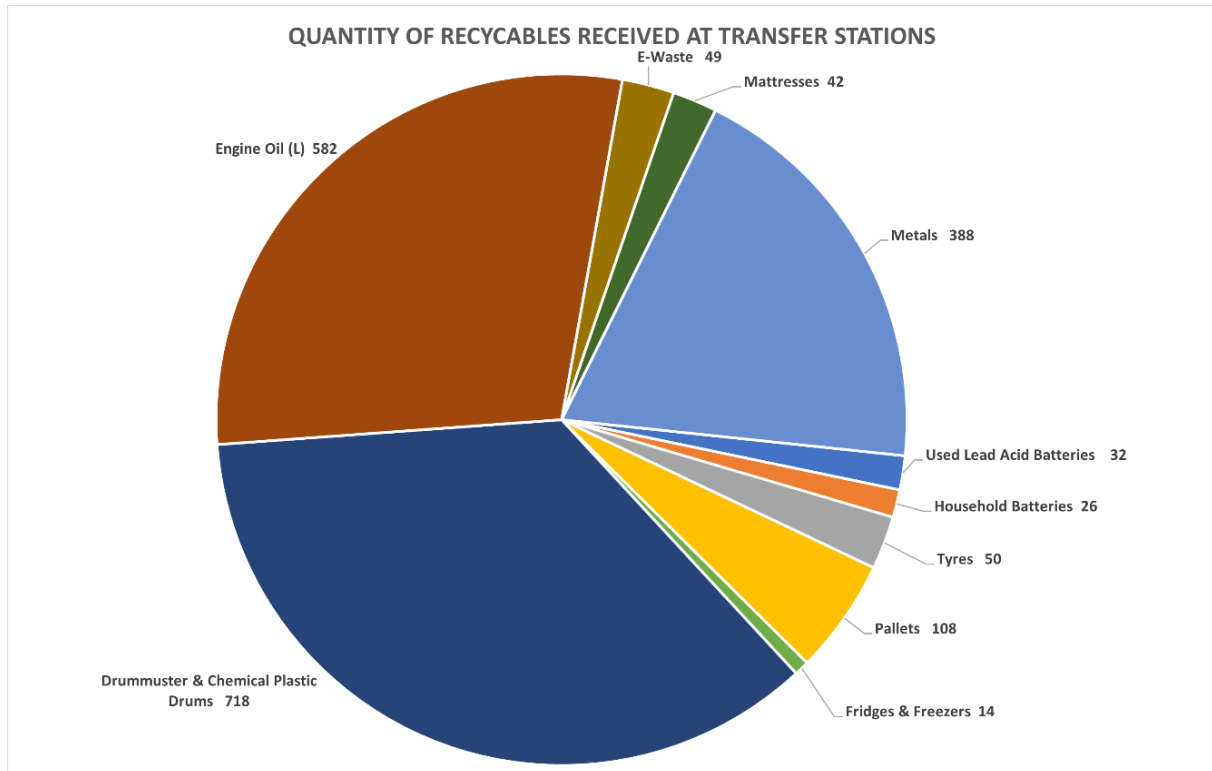
Waste material collected in Kerbside trucks is transported to the Advanced Resource Recovery Facility (ARRF) in Cairns for processing. Residual waste and waste collected at Transfer Stations is transported to Springmount Waste Facility, and recyclable material is transported to the Material Recovery Facility (MRF) in Cairns for processing.

During April, 499.8 tonnes of waste was processed through the ARRF, 193 tonnes of waste was sent to Springmount Waste Facility and 9.7 tonnes of domestic items were recycled at the MRF.



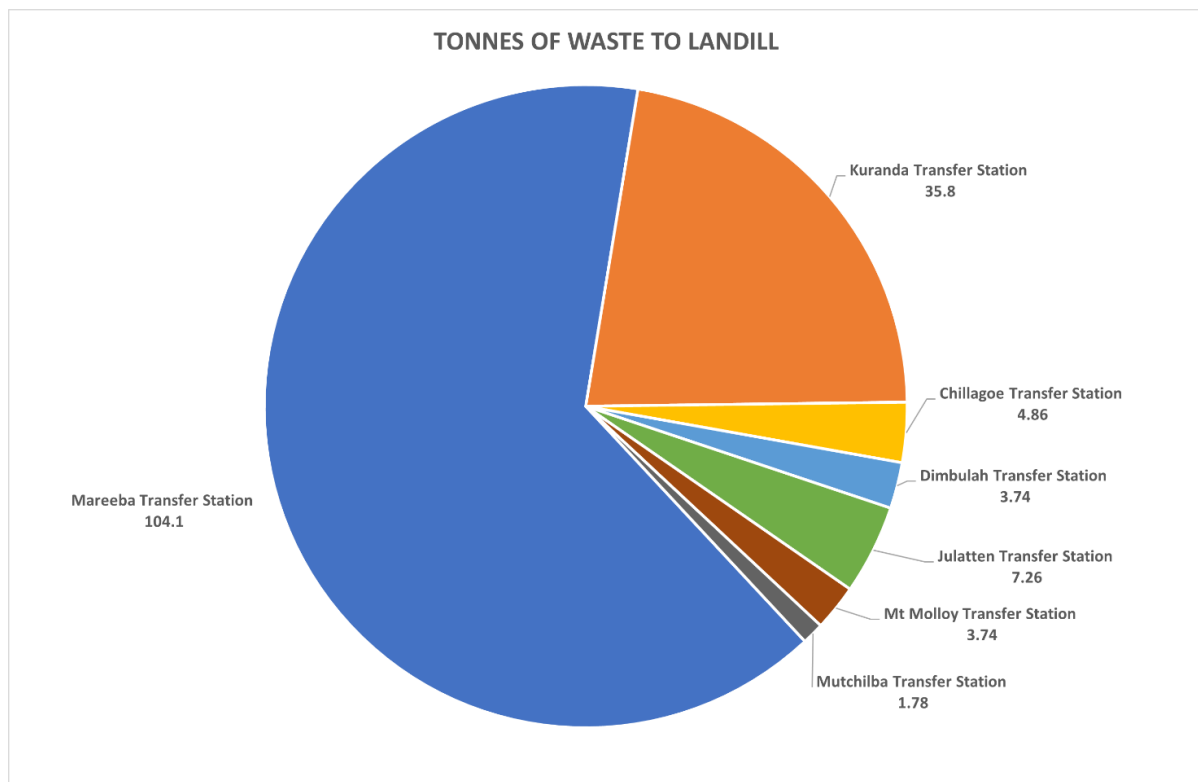
Recycling

Residents continue to recycle at the Transfer Stations. During April the highest count of recyclable items received were 718 drumMuster chemical drums, 582 litres of engine oil and 388 items of scrap metal.



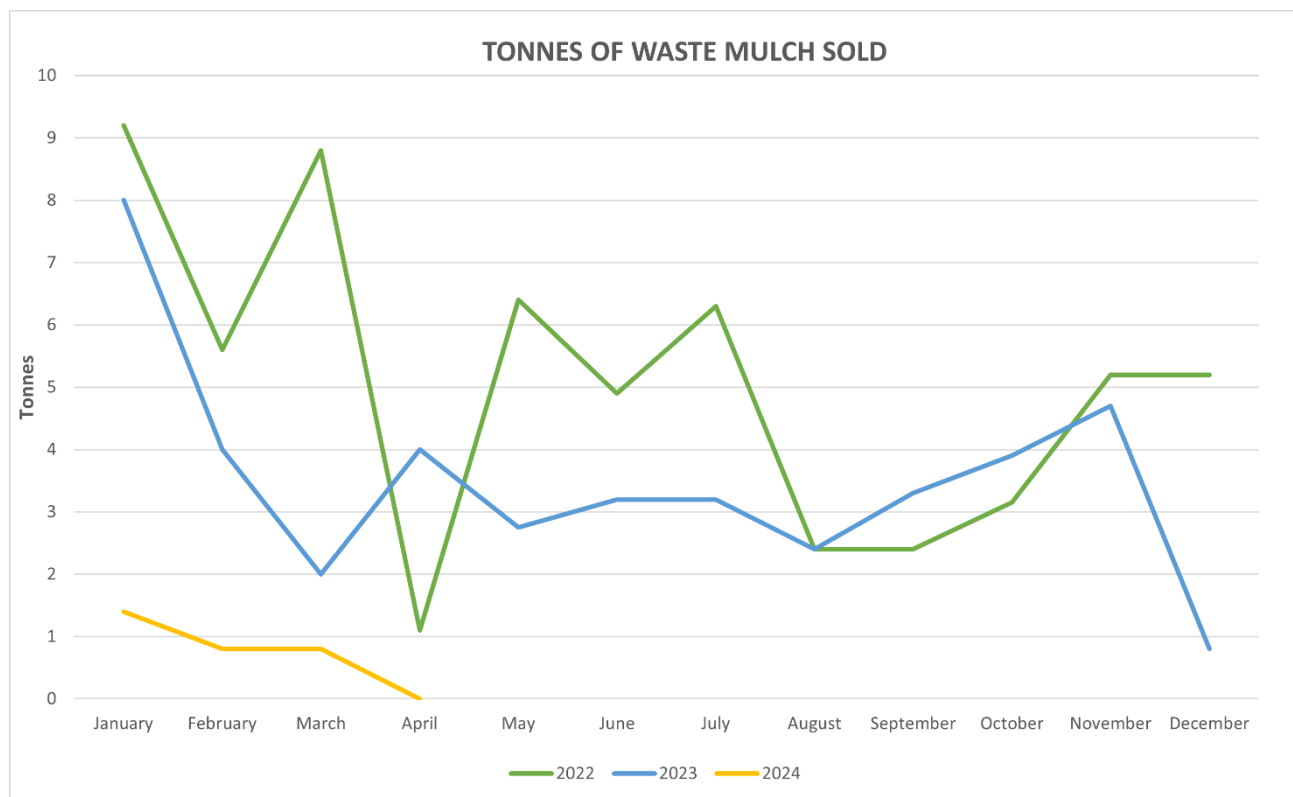
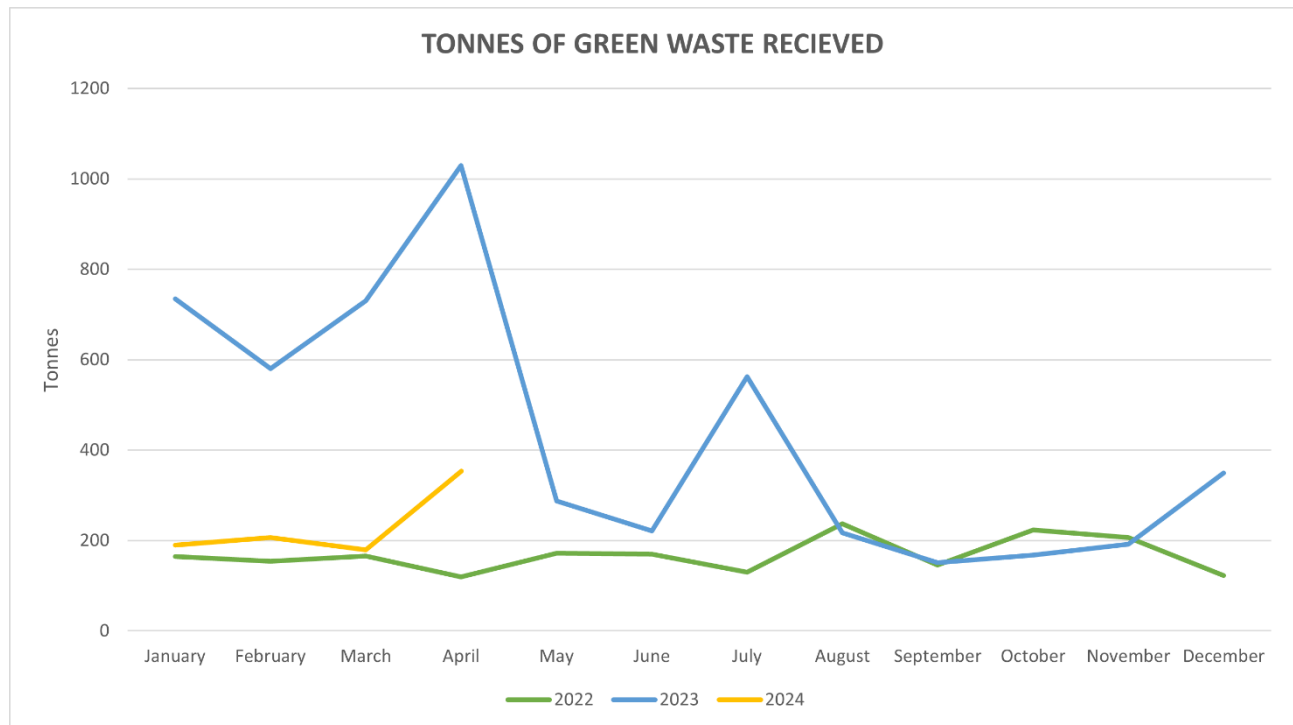
Transfer Station Waste

Transfer Station dry waste is transported off site to the Springmount Waste Facility. During April a total of 193 tonnes of waste was sent to landfill. Mareeba Transfer Station contributed to 124.1 tonnes to landfill, and Kuranda 45.3 tonnes.



Green Waste

During April, Council received a total of 354.1 tonnes of green waste. During the scheduled free green waste days, a total of 161.4 tonnes was received, totalling 714 deliveries. Kuranda recorded 1.8 tonnes of green waste from locations registered as being potentially contaminated with Electric Ants. No mulch was sold during April.



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***Capital***

Nil

Operating

Nil

LINK TO CORPORATE PLAN

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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

9.6 INFRASTRUCTURE SERVICES, WORKS SECTION ACTIVITY REPORT - APRIL 2024**Date Prepared:** 3 May 2024**Author:** Manager Works**Attachments:** Nil**EXECUTIVE SUMMARY**

The purpose of this report is to summarise Council's Transport Infrastructure, Parks and Gardens, TMR Routine Maintenance Performance Contract (RMPC) and Land Protection operational activities undertaken by Infrastructure Services during the month of April 2024.

RECOMMENDATION

That Council receives the Infrastructure Services, Works Progress Report for the month of April 2024.

BACKGROUND

A summary of works completed in April 2024 is provided below.

Transport InfrastructureGeneral Maintenance

The major maintenance activities carried out in April are listed below;

Activity	Area
Unsealed Road Grading	Julatten, Thornborough, Watsonville, Chillagoe
Slashing	Dimbulah, Mt Carbine, Kuranda, Mt Molloy, Julatten
Herbicide Spraying	Arriga, Paddy's Green, Mt Carbine, Mareeba, Mt Molloy, Bibbohra, Dimbulah
Tree Clearing/Vegetation Management	Julatten, Kuranda, Mutchilba, Mt Molloy, Chillagoe, Mareeba
General Drainage	Mutchilba, Paddy's Green, Speewah, Dimbulah
Unsealed Road Maintenance	Julatten, Watsonville, Mareeba, Mt Molloy, Koah, Kuranda,
Bitumen Patching	All areas
Events	Set up and traffic control - Mt Molloy, Mareeba, Dimbulah, Chillagoe, Kuranda

Tropical Cyclone Jasper, Associated Rainfall and Flooding

Mareeba Shire Council received advice from the Queensland Reconstruction Authority (QRA) that Disaster Recovery Funding Arrangements (DRFA) has been activated for Tropical Cyclone Jasper, Associated Rainfall and Flooding event.

The event has impacted large portions of the shire particularly in the eastern and northern areas.

Due to on-going rain and access difficulties the Queensland Reconstruction Authority has issued an extension of time to the Emergent and Immediate Restoration submissions for Council controlled roads of a further 90 days to 30 June 2024.

At the time of reporting, 223 roads within the shire have recorded expenses for emergent work to temporarily repair damage and maintain access. The number of roads affected will increase as the Walsh and Mitchell River levels drop allowing access to local roads past these crossings.

As an example, at the time of reporting, Council officers had recently gained access to Bulimba Road for the first time since December and the damage is quite significant. Contract crews will be establishing in the area mid to late May to commence emergent works for Council.



Bulimba Road (03/05/2024)



Bulimba Road (03/05/2024)



Bulimba Road (03/05/2024)



Bulimba Road (03/05/2024)

Customer Requests

During April, the Works Group received 196 Customer Requests (CRs) with 261 resolved (resolved requests include those received prior to April 2024). The table below shows the number of requests lodged per Works Section for the month.

Month	Roads	Parks and Gardens	Pest Management
April	150	42	4

At the time of reporting, the Works Group had 118 open requests.

TMR Routine Maintenance Performance Contract (RMPC)**89B – Burke Developmental Road (BDR)**

- Emergent works
 - Road repairs along gravel road from Chillagoe Creek to Ferguson’s Crossing
 - Road repairs along gravel road from Fergusons Crossing to Trimble’s Crossing
- Herbicide Spraying - Dimbulah to Almaden
- Repair or replace guide markers - Dimbulah to Almaden
- Rest Area Servicing
- Sign Works
 - Re-instate 1x black and white chevron marker at Eureka Creek causeway
 - Supply new bracket/bolts and re-fix existing flood marker to Pump Creek causeway

6632 – Herberton – Petford Road

- Herbicide Spraying - Watsonville Range to Irvinebank
- Trim trees - Rest Area Irvinebank - Mango Trees

32A - Kennedy Highway (Cairns – Mareeba)

- Rest Area Servicing 32A - Edmund Kennedy Bridge

664 – Mareeba-Dimbulah Road

- Emergent Works
 - On-going pothole patching at various locations as required
- Herbicide Spraying- signs, guideposts and guardrails
- Replace/Straighten guideposts where required - full length of road
- Rural slashing- Dillon Street to Dimbulah two (2) cuts both sides

653 – Mossman-Mt Molloy Road

- Emergent Works
 - Ongoing pothole patching as required
 - Slip clearing
- Herbicide spraying - signs, guideposts, guardrail
- Rest Area - Toilet Servicing - Hunters Creek
- Roadside Litter Collection - 653 - Hunter Creek, Environ Park and Lyons Park
- Rural slashing Molloy to Mossman - Full cut both sides where possible - including traffic control

34B – Mulligan Highway (Mt Molloy – Lakeland)

- Emergent Works
 - Ongoing pothole patching as required
- Herbicide Spraying - entire length of road where possible
- Slashing - Full cut width slashing from Rifle Creek to Spear Creek

- Rest Area Servicing - Rifle Creek, includes toilet cleaning
- Roadside Litter Collection - Rifle Creek, Mt Carbine Truck Stop and Bob's Lookout

34A - Mulligan Highway (Mareeba - Mt Molloy)

- Emergent Works
 - Ongoing pothole patching as required
- Herbicide Spraying - entire length of road where possible
- Rural slashing - Bibbohra to Mt Molloy
- Rural slashing - Brady Road to River Road

In early May, Council's western road crew will begin emergent repairs to the Burke Developmental Road from Mungana to Ferguson's Crossing.

Parks and Open Spaces

Description	Comment
Mowing	Mareeba, Dimbulah, Kuranda, Mt Molloy/Julatten, and Chillagoe now all on scheduled mowing roughly every fortnight as far as practicable.
Playing fields mowing	Davies Park twice per week at 50mm, Borzi Park twice per week at 25mm, Firth Park once per week at 32mm.
General maintenance	Hedging, weeding and brush cutting as time permits. Herbicide spraying on Mulligan Highway and Mareeba-Dimbulah Road town sections.
Gurney crew	Additional works as per CRM's - Pressure washed footpaths at Wetherby Park and Anzac memorial, Bicentennial Lakes footpaths.
Playgrounds	Centenary Park carousal is broken and we are waiting on spare parts. It will be repaired under warranty.
Projects	Mareeba Library Garden Group have started on the final garden, and it is approximately 50% complete at the time of reporting
Burials	Mareeba three (3) burials – mausoleum wall and in ground.
LOA	Mareeba Cemetery and Pioneer Cemetery mowing and brush cutting
Contractors	Bibbohra has been mowed twice this month, Irvinebank and Watsonville cemeteries completed on 22 April 2024. The Rail Trail, Shaban Park, Mooraridgi Park and Eales Park have been slashed. Excavator/Forestry Mulcher completed vegetation control at the Kuranda Heights Cemetery.
Tree maintenance	Dead trees removed from Mareeba northern approaches and Lions Park. Tree pruning was undertaken at Anzac Park prior to Anzac Day.
Fire management	The fire break at Buchan Street, Kowrowa and all tracks Watsonville were mulched.

Land Protection

1. **Parthenium Weed:** Inspections carried out on 13 sites. All landholders are complying with their biosecurity obligation. We continue to monitor 1 site every 2 weeks with the other 12 every 3 weeks.

Gamba Grass: Foliar spraying of Gamba Grass on council roadsides working from Dimbulah back towards Mareeba.

2. **Feral Pigs:** Landholders given advice on baiting, shooting, and trapping. A total of six (6) customer requests were received for April regarding feral pig management.

Tramp Ants: Sentinel site surveys were carried out at MSC Transfer Stations for Electric and Yellow Crazy ants. No positive samples detected.

3.

FINANCIAL AND RESOURCE IMPLICATIONS***Operating***

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

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IMPLEMENTATION/COMMUNICATION

Nil