

9.2 INFRASTRUCTURE SERVICES, CAPITAL WORKS MONTHLY REPORT - JANUARY 2024

Date Prepared: 29 January 2024
Author: Manager Assets and Projects
Attachments: 1. [Capital Works Highlights - January 2024](#) ↓
2. [Capital Works Summary - January 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 January 2024.

RECOMMENDATION

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

IMPLEMENTATION/COMMUNICATION

Infrastructure Services Capital Works Report Project Highlights – January 2024



Project Name: New Kuranda Cemetery

Program: Cemeteries

Background

The existing Kuranda Cemetery has been approaching capacity for several years necessitating the requirement for Council to acquire a suitable location for the establishment of a new community burial facility. The property located on Kuranda Heights Road became available and was purchased for the purpose of becoming the preferred location for the new facility. The contract works for Stage 1 will provide burial capacity for the next 10 – 15 years.

Scope of Work

The tendered scope of works includes:

- Earthworks
- Roadworks
- Stormwater Drainage
- Water Supply/ Connection
- Carparking
- Landscaping
- Toilet Block
- Concrete works including: kerbs, pathways, beams

Progress Update

Bulk earthworks, roadworks, stormwater drainage, water supply, carparking, landscaping and concrete works for kerbs, pathways and toilet facility are complete. There have been some delays on the toilet construction and lawn beam due to wet, which will be progressed as weather conditions permit.



Kuranda Heights Cemetery – New footpath complete and toilet construction commenced.

Infrastructure Services Capital Works Report Project Highlights – January 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

Works on hold due to wet weather and wet ground conditions.

Mason Street Playground

Pump Track contractor Contour Works has mobilised to site and are completing final earthworks preparation following the recent wet weather events.

Playground equipment including a flying fox, hill slides, rope climb net and swing have been delivered and are in storage until ground conditions are suitable for construction.

Toilet construction works are continuing including plumbing and connection to sewerage.

**Infrastructure Services Capital Works Report
Project Highlights – January 2024**



Bicentennial Lakes Southern Section New Public Toilet Construction



Bicentennial Lakes Pump Track Site Preparation

Infrastructure Services Capital Works Report Project Highlights – January 2024



Project Name: Hastie/Constance Street Intersection Upgrade

Program: Traffic Facilities

Background

The Constance and Hastie Street intersection in Mareeba was identified for upgrade to improve pedestrian safety. The intersection is used by up to 500 vehicles per hour at school drop off and pick up times and there is also significant morning and afternoon pedestrian traffic associated with school, kindergarten and childcare facilities.

This project provides an improved intersection layout and street lighting which will result in increased pedestrian safety by separating vehicles and pedestrians. This project is jointly funded by the Queensland Government through the School Transport Infrastructure Program and Mareeba Shire Council.

Scope of Work

The scope of work included:

- Demolition of existing island and remove materials;
- Installation of concrete islands to delineate the intersection and assist in narrowing the crossing distance for pedestrians;
- Relocation of the pedestrian crossing, installation of a median island and additional pavement marking; and
- Installation of new street lighting to improve visibility at night.

Progress Update

The civil construction works commenced and were substantially completed in January. Ergon is scheduled to commence installation of the lighting upgrade during February.

Infrastructure Services Capital Works Report

Project Highlights – January 2024



New pedestrian crossing location



Concrete island infill

Infrastructure Services Capital Works Report

Project Highlights – January 2024



Before



After - Completion of Pavement Marking

Infrastructure Services Capital Works Report Project Highlights – January 2024



Project Name: Bicentennial Lakes Gravity Sewer Main Upgrade

Program: Water

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 early 2024.

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 to date:

- Trenching and installation of Line 1 and Line 3 sewer pipework
- Pipework installation completed
- Asphalt reinstatement of Keeble Street completed 23 January 2024
- Benching of sewer manhole completed
- Air testing of pipeline completed



Completed manhole benching in manhole 1/11 and confined space entry works for air testing of pipeline sections

Infrastructure Services Capital Works Report Project Highlights – January 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 undertaking construction of the new filter cell modules.

Infrastructure Services Capital Works Report Project Highlights – January 2024



Concrete construction of new filter cell modules.

Infrastructure Services Capital Works Report Project Highlights – January 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.

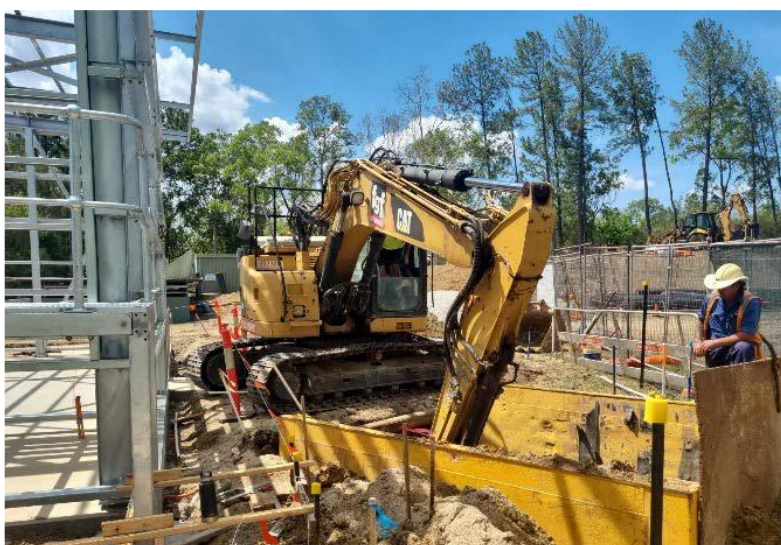
Progress Update

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

Pump Station Building construction:

- Structural steel framing completed.
- Grouting under columns completed.
- Roofing materials delivered to site for roof installation commencing 7 February 2024.
- External staircase and platform supports concreted in.
- Electrical cable tray installation continuing.
- Gantry crane installed, commissioning to occur in late-February.

Infrastructure Services Capital Works Report Project Highlights – January 2024



Structural framing for booster pump station building

Infrastructure Services Capital Works Report Project Highlights – January 2024



Project Name: Mareeba Water Plant Raw Water Pump Station Project

Program: Water

Background

The existing raw water pump station (including electrical controls) is located below the 1% Annual Exceedance Probability (AEP) river flood level presenting an ongoing risk for security of water supply for Mareeba. The project will upgrade the raw water pump station at the Mareeba Township Kowa Street water treatment plant (WTP) to provide a new kiosk-style electrical control station that is located above the flood level, in addition to replacement of the existing pumps with new pumps.

Grant funding for the Mareeba Water Treatment Plant Raw Water Pump Station Upgrade through the Queensland Government Local Government Grants and Subsidies program (LGGSP) and Mareeba Shire Council.

Scope of Works

The scope of works includes:

- Design and specification of new Variable Frequency Drives (VFDs) for control of the new Raw Water pumps
- Design of modifications of existing pipework that may be required to suit installation of the new Raw Water Pumps
- Construction of new electrical MCC for the new Raw Water Pumps, to establish the 1-in-100year flood level and to locate the electrical MCC in an area above this level
- Geotechnical investigation of area proposed for the new MCC
- Manufacturing of the electrical and control cabling for the proposed new pump station installation, from the existing WTP Main Switchboard in the Control Building to the new kiosk MCC and the pumps

Progress Update

Works commenced with the installation of electrical cabling conduits and the commencement of the electrical switch room building.



Electrical cabling conduits installed

Project Code	Project Description	Project Stage	Project Comment
Program: 01 Rural and Urban Roads Reseal Program (Renewal)			
P0001020	23/24 Reseal & Asphalt Program	Construction	Regional reseal meeting will be held on 6 February 2024 to reset timelines due to recent & ongoing weather events.
P00835	BETTERMENT Co-Contribution	Construction	Contractor engaged, works to commence - weather dependent.
Program: 02 Gravel Resheet			
P0001022	23/24 Gravel Resheet Program	Completed	Bolwarra Road re-sheeting was completed December 2023.
Program: 03 Urban Streets			
P0001023	Recovery Way (WTS) Rehab Ch 0.176-0.272	Not Commenced	Programmed for 2nd half of current financial year.
P0001024	Myola Rd Ch 0.2-3.06	Procurement	Tenders received. Project pushed back until after 23/24 wet season.
P00791	Hastie/Constance Upgrade (School)	Construction	Primary construction works completed. Minor works to ensure crossing compliance and Ergon street lighting proposed to be completed from February.
P00795	TIDS 23-27 Herberton/Constance Inter	Design	Awaiting detailed design from consultants. Anticipate design completion Feb 2024.
P00797	TIDS 22/23 24/25 Rankin/Walsh St R'bout	Design	Quotation for Detailed design to be sought Feb 2024.
P00943	Design Only Mclver Rd Ch. 0.00-7.20	Design	Design to be completed June 2024.
Program: 04 Rural Roads			
P0000948	TIDS 23/24 Springmount Rd Ch 11.35-12.7	Procurement	Works now expected to start early March 2024, weather permitting.
P0000949	TIDS 23-25 Springmount Rd Ch 6.7-7.55	Procurement	2xNBN pits installed in January. Underboring expected to commence mid-February. Project construction will commence March, weather permitting.
P00801	TIDS Ootann Rd Section 1&2 Widen & Seal	Procurement	New milestone dates have been set following the Federal Government's approval of the project after the Independent Strategic Review. Construction to commence from July 2024 and completion by November 2025.
P00802	TIDS Springmount Rd - Ch13.2 to 18.1	Completed	Construction complete. Line marking to be installed December 2023.
Program: 05 Bridges			
P00711	Granite Ck Mba Replace Footbridge Deck	Procurement	Works to be done late February 2024.
P00712	Palm Cl Mba Replace Footbridge Boards	Construction	Works to be undertaken in March 2024, weather permitting.
P00713	Bicentennial Lakes F/bridge Safety Upgr	Procurement	Handrail will be repaired early 2024. Materials procured.
P00839	Bullaburrah Ck Rd C'way Relieving Slab	Not Commenced	Not commenced.
P00840	Clohesy River Barron St Inspect & Design	Design	Initial investigation complete, design for replacement deck to be finalised March 2024.
P00841	Bolton Rd Inspect/Design/Repl Girders	On Hold	Draft Report received, review underway.
P00842	Barron Riv. Bridge Oakforest Rd Insp/Des	Design	Level 3 report received in January 2024 and design to commence from February 2024.

Project Code	Project Description	Project Stage	Project Comment
P00843	Barron River Cwy Henry H Dr Repl Slabs	Not Commenced	Not commenced.
Program: 06 Drainage			
P0001021	23/24 Minor Culvert & C/ways Program	Construction	Four culvert road crossings installed on Pickford Road in September.
P00844	MBA Amaroo Drainage Upgrades	Design	Design works will commence as wet season permits. Anticipate design completion by end April 2024.
P00845	MBA Hastings Dr Replace Concrete Pipe	Completed	Project completed December 2023.
P00938	Tilse Street Upgrade Drainage	Construction	Project nearing completion. Anticipate completion February 2024.
Program: 07 Traffic Facilities			
P0000951	Anzac Ave LATM Upgrades	Design	Neighbourhood Entry Treatments and SAS investigations completed. Detail plans to be finalised and works undertaken prior to end of Financial Year. Commencement of Masterplan for Anzac Avenue (TMR to Hastings Int) to commence this Financial Year
P0001025	Design Only Byrnes St Accessibility	Planning	Draft CBD Stormwater Masterplan (Phase 2) received. Works to commence on prioritising staging of stormwater upgrades. Awaiting grant application outcome for Mareeba CBD redesign project.
Program: 08 Parking			
P00715	Borzi Park Mba Carparking Masterplan	On Hold	On hold pending sporting clubs' grant applications.
P00846	MBA Heritage Centre Carpark Extension	Design	Layout Plan and Quantities completed. Engagement to commence in early 2024.
Program: 09 Footpaths			
P0001026	23/24 Footpath Renewal Program	Procurement	Quotations received & works will commence early February 2024, weather permitting.
P0001027	23/24 Footpath Upgrade Program	Planning	Locations to be identified.
Program: 10 Parks and Gardens			
P0001028	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 new play equipment at the bicentennial lakes.
P0001029	Kda Com Precinct Parks Upgrade	Planning	Planning to progress in 2024.
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.
P00805	Chillagoe Parks Improvement	Construction	Works delayed by flooding event and contractor commitments. Works to commence mid February 2024.
P00806	DIM Parks Refresh	Construction	Pump track and fence complete. Swing to be ordered with remaining budget.
P00807	KDA Centenary Park Playground Upgrade	Construction	Playground completed. Hans Pehl currently refurbishing the sign structures which will be repurposed and installed in Centenary Park.

Project Code	Project Description	Project Stage	Project Comment
P00809	MBA Bicentennial Lakes (Southern) D&C	Construction	Waterway damaged in Ex-Jasper Flooding and will need to be reinstated after the wet season. Toilet construction well progressed with completion expected in March 2024, weather permitting. Pump Track contractor mobilised but delayed by wet weather. Playground equipment has arrived and will be installed when weather and ground conditions permit.
P00817	MBA Byrnes St Medians	Not Commenced	Project to be programmed for after March 2024.
P00818	MBA Anzac Memorial Pk L'scaping & Safety	Completed	Project completed November 2023.
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	Landscaping on hold due to wet weather events.
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	Existing hexagonal picnic setting removed and in storage until it can be relocated when weather and contractor availability permits in conjunction with the new picnic shelter installation. Swing set expected to be installed early 2024 when sand quarry is accessible after wet weather events.
P00939	Roscommon Park -Renew Exercise Equipment	Procurement	Fitness equipment and artificial turf installed. Shade sail to go out to RFQ in February.
Program: 11 Water			
P0001032	Chillagoe WTP Construct Storage Shed	Construction	Shed kit and Roof over WTP completed. Raised platform connecting new and existing sheds to be constructed in February.
P0001033	Chillagoe WTP Construct Roof over Plant	Construction	Shed kit and Roof over WTP completed. Raised platform connecting new and existing sheds to be constructed February.
P0001034	Ibis Dam Replace Inlet Feed Pipeline	Planning	Stores have ordered materials, once they arrive actual installation works will commence.
P0001035	23/24 WTP Minor Infra Replace Program	Construction	Various minor projects under way which include the Dimbulah WTP chlorination works and Mareeba WTP sludge lagoon concreting.
P0001036	23/24 AC Water Main Replace Program	Construction	Works continuing to progress on schedule. Works between Jebreen and Costin St continuing.
P0001037	23/24 Water Telemetry/SCADA Upgrades	Planning	W&W along with IT participating in a presentations by iControl on Ignition Historian and with Parasyn on Canary as the current Historian eDNA is at the end of its useful life. Following the presentations a decision will be made on which new Historian platform for W&W will be acquired.
P0001038	23/24 Retic Valve/Hyd Replace Program	Construction	Works progressing now materials have arrived.
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	Estimated completion early to mid 2024.

Project Code	Project Description	Project Stage	Project Comment
P00733	BOR6 MWTP Filtration Upgrade	Construction	Contractor on site with civil excavation and concrete works underway. There are some long lead times on equipment arrivals though at this stage not expected to hold project up but will advise as things progress.
P00824	MBA Clear Water Booster Pump Station	Construction	Contractor has made good progress on civil works, shed slab and shed frame construction. There are some very long lead times on critical equipment items for this project and will advise as things progress but at this stage the project is on schedule.
P00874	MBA WTP Raw Water Pumps & Electrics	Construction	Works commenced with the installation of electrical cabling conduits and the commencement of the electrical switch room building.
P00876	BOR6 22/23 Water Forward Design Program	Design	Original scope of work for MWTP clarifier design completed under budget. Following discussions with State Government, approval has been granted for the residual funds to be allocated to design of the new MWTP clearwater reservoir.
P00878	MBA Deommission 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	Construction	Works were schedule to be completed by end of December, however some critical equipment has not arrived from England and the works will now be completed in February.
P00883	MBA WTP Clarifier Infra Process Improv.	Design	Design report completed and received. Project funds could be used for grant seed funding on next BOR grant program.
Program: 12 Wastewater			
P0001040	Mba WWTP Purchase Forklift	Design	Project scope has been amended to purchasing a forklift as site constraints not suitable for a gantry.
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	Construction	This project being done as a variation to the BiLakes Gravity Sewer Main work.
P0001046	23/24 WW Telemetry/SCADA Upgrades	Planning	W&W along with IT participating in a presentations by iControl on Ignition Historian and with Parasyn on Canary as the current Historian eDNA is at the end of its useful life. Following the presentations a decision will be made on which new Historian platform for W&W will be acquired.
P0001047	23/24 WW CCTV & Relining Program	Construction	Contracts have just been signed off on and works will commence on the regional program with MSC's section scheduled in January/February.
P0001048	SPS New Standby Generators	Construction	New generators now positioned at relevant pump stations. Electrical and telemetry connections will be done as soon as practical.
P0001049	23/24 WW Manhole Rehab/Replace Prog	Construction	Works commenced January 2024.

Project Code	Project Description	Project Stage	Project Comment
P0001050	Kennedy Hwy PS Control Board Upgrade	Construction	Project under way with the manufacturing of the new switchboard. Once built it can be shipped to site and installed.
P0001051	Mba WWTP Sewer Pump Replacement	Procurement	Supervisor Treatment Operations placed an order for the new pump, once it arrives it will be installed. There is a 12 to 16 week lead time on delivery.
P0001052	23/24 WWTP Minor Infa Renewal Program	Construction	Works currently underway and should be completed this financial year.
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. Council's fabricator completed the upgrading of shelters to the pump stations in Kuranda.
P00886	MBA Bi-Lakes Sewer Main Capacity	Construction	Majority of works completed by December 2023. Some rectification works required due to wet weather damage, with final road, footpath and verge reinstatement to be completed when weather conditions are favourable.
P00889	22/23 MBA Sewer CCTV & Relining	Construction	Relining works are substantially complete. Some minor works will need to be finalised then once invoices are received and paid project can be closed out.
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	An assessment will be done in early 2024 on which pumps to replace.
P0001055	23/24 Mba L/Fill PS Pump Replace	Planning	An assessment will be done in early 2024 on which pumps to replace.
P00935	MBA/KDA Transfer Station Security Improv	Construction	Contractor has been engaged and once their equipment arrives the works will commence.
Program: 14 Aerodromes			
P0000947	Mareeba Aerodrome Safety & Repairs	Construction	RFQ for the upgrade of firefighting equipment to be called early March 2024, with installation to occur prior to end of Financial Year.
Program: 15 Fleet			
P0001066	Fleet Replace #14 Grader Caterpillar	Procurement	Delivery Expected 2nd week March 2024
P0001067	Fleet Replace #401 Mini Excavator	Planning	Currently in planning 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	Procurement	Expected delivery mid March 2024.
P0001070	Fleet Replace #1210 Mitsu Pool Vehicle	Procurement	Vehicle has been ordered, awaiting delivery date.
P0001071	Fleet Replace #1231 Toyota WW	Procurement	Vehicle has been ordered expected delivery date July 2024.
P0001072	Fleet Replace #1313 Nissan Dual Cab	Procurement	Tender evaluation complete, waiting approval to purchase.
P0001073	Fleet Replace #1402 Mazda Oncall Veh	Procurement	Tender evaluation complete, waiting approval to purchase.
P0001074	Fleet Replace #2055 Mitsu P&G	Procurement	Vehicle ordered, expected delivery July 2024.

Project Code	Project Description	Project Stage	Project Comment
P00427	GPS Vehicle Management System	In Progress (for the non-infrastructure projects)	On going of implementing GPS to new and some existing fleet.
P00915	Fleet Replace #675 Crew Cab Tipper	Procurement	Delivery February 2024.
P00916	Fleet Replace #623 Crew Cab Tipper	Procurement	Delivery February 2024.
Program: 16 Depots and Council Offices			
P0001064	Mba Depot Admin Building Refurb	Procurement	In procurement.
P0001065	Mba Depot Stores Mez Floor Safety Upgr	Completed	Works practically complete, finalisation of minor outstanding items to be completed Feb 2024.
P00759	Kowa St MSC Depot Emergency Generator	Planning	Will recommence investigations February 2024.
P00940	Kowa St MSC Depot New Fuel Bowser	Procurement	Budgetary estimate received for works. Detailed quotes to be sourced for Bowser Replacement, potentially not enough funds to integrate intelligent reporting.
Program: 17 Community Buildings			
P0000950	Cedric Davies Hub Disaster Resilience Up	Construction	99% Complete. Flashings and minor rectification works expected in mid February depending on contractor availability.
P0001056	Chillagoe Hall Septic Modifications	Construction	In construction.
P0001057	Mba Aquatic Fac Pump Shed Upgrades	Completed	Fence installed. Project Completed
P0001059	Mba/Dim Aquatic Condition Assessment	Planning	Condition Assessment scope of works in development. Expect Quotations to be called early 2024.
P0001062	23/24 Amenities Refurbishment Program	Construction	Painting completed. Epoxy floors will be completed by February 2024.
P0001063	Davies Park Lighting Upgrade	Design	Waiting on outcome of grant application.
P0001087	Aquatic Facilities Equipment	Completed	Blankets and disability chair lift have been installed.
P0002902	SES SUPPORT Kda SES External Facility	Construction	Soil tests completed January 2024. Engineered plans received. Shed kit has been ordered. Construction expected to start in March 2024 with completion in May 2024 weather dependent.
P00749	Aquatic Facility Upgrades & Splash Park	Construction	Emergent electrical works complete. Ergon offer pending following electrical engineer assessment and application for increased power capacity into the facility. Allowance is currently 200amps per phase application to increase to 260amps per phase.
P00793	MBA Women's Restroom Refurb	Construction	Investigation finalised, work will commence in February 2024.
P00819	22/23 Shire Toilet Facility Repl Program	Construction	Epoxy flooring will be completed January 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	Design	In procurement.
Program: 18 Non-Infrastructure Items			



<i>Project Code</i>	<i>Project Description</i>	<i>Project Stage</i>	<i>Project Comment</i>
P0000946	Mba Cemetery New Mausoleum Wall	Construction	Wet weather has delayed access to site. Construction to recommence when weather permits.
P0001058	WAT Cemetery Lawn Plaque on Beam	Not Commenced	Work postponed until February 2024.
P0001085	Mba Cemetery Expansion Planning	Planning	Investigations into alternative options commencing February 2024.
P00446	Kuranda New Cemetery	Construction	Cemetery earthworks construction complete. Toilet facility nearing completion. First beam to be installed when weather permits.
P00932	MBA MIP Expansion	Completed	Delays with consultant providing draft Masterplan.

9.3 INFRASTRUCTURE SERVICES, TECHNICAL SERVICES OPERATIONS REPORT - JANUARY 2024

Date Prepared: 29 January 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 January 2024.

RECOMMENDATION

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

BACKGROUND

Technical Services

Design, quality, and investigations:

Investigation activities undertaken in January included:

Activity	Current Requests	Closed Requests
Road Infrastructure Review	71	13
Drainage Investigations	37	11
NHVR Permit Applications	0	26
Traffic Count Surveys	0	6
Parks Investigations	4	0
Miscellaneous e.g. Planning; Local Laws	35	7
Before You Dig Requests	0	20

Soil Laboratory:

Council's Soil Laboratory provides NATA-accredited soil and material testing for internal and external services. Limited testing was undertaken during the January period due to wet weather, testing is anticipated to return to normal levels in February.

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. 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	Prestige Gardens Stage 5-6	Under construction
Mareeba	Catherine Atherton Drive	Under construction
Mareeba	Emerald End Road and Country Road	Under construction
Mareeba	Amaroo Stage 13a	On-maintenance
Mareeba	Amaroo Stage 12 – Drainage Infrastructure	On-maintenance
Mareeba	Prestige Gardens Stage 1-4	On-maintenance
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 2024 dry season.
2023 DRFA	Northern and Central Queensland Monsoon and Flooding Event, 20 December 2022 – 30 April 2023. QRA have completed the majority of assessments, with tender for construction to be undertaken once full impact of Cyclone Jasper Event understood.
2023 Bushfires	A number of fires within communities have been responded to by QFES, with Council providing support on request, i.e. traffic management, plant engagement, etc.
2023 Cyclone	Declared event December 2023 - 'Tropical Cyclone Jasper, associated rainfall and flooding, 13 – 28 December 2023'. Emergency response activities continue and damage assessments underway.



Girders for Gamboola Crossing (2022 DRFA)

Facilities

Asset Inspections:

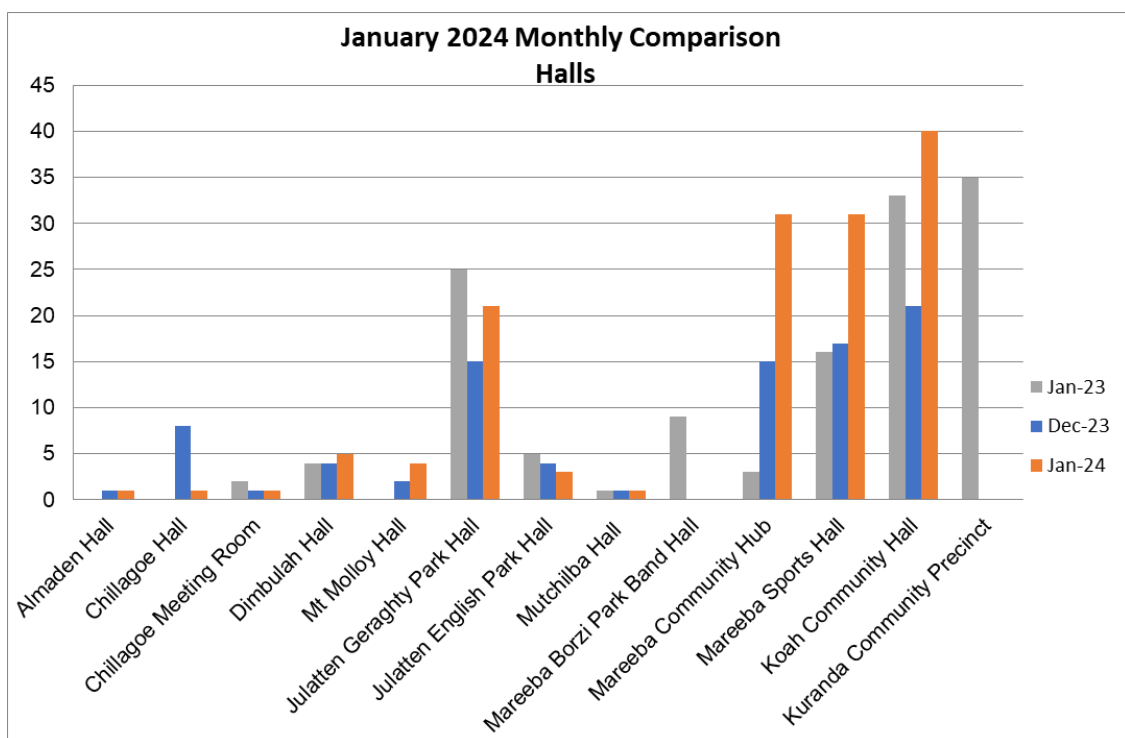
Facility asset condition and defect inspections continue, and a review of internal facility processes/practices is underway to seek efficiency improvements. Inspections are currently targeted towards assisting in the development of Asset Management sub plans.

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

Community Halls:

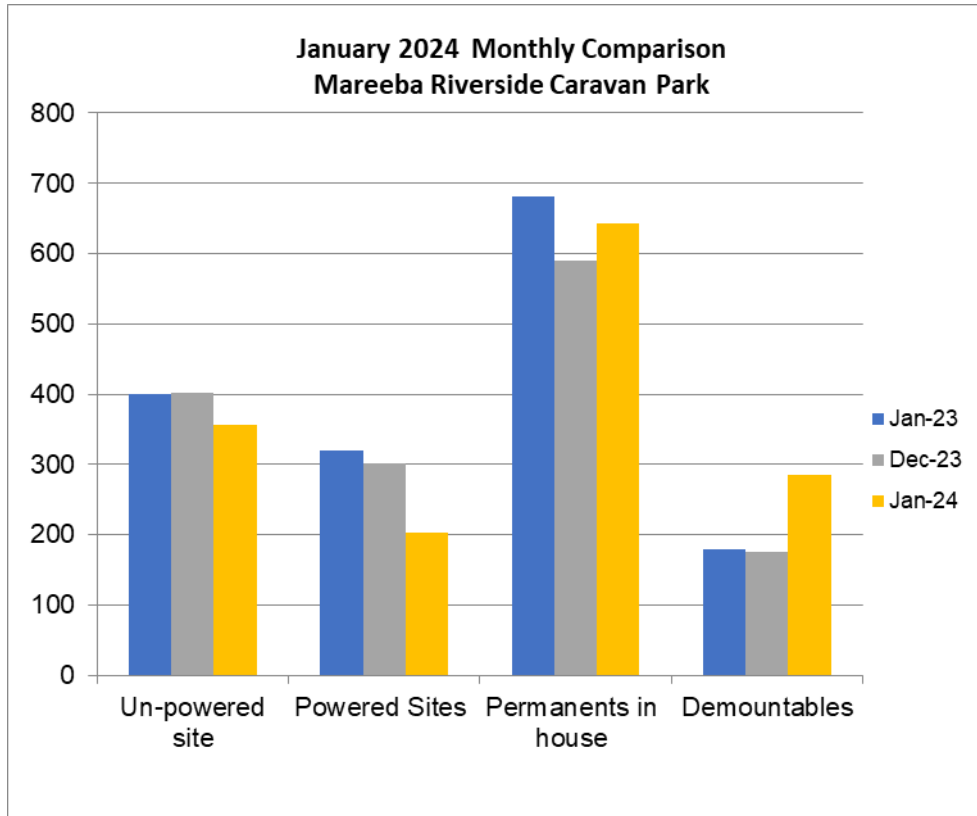
Maintaining safe and efficient access to Council’s Community Halls is recognised as an important aspect for the community's ongoing wellbeing. Although the impacts of Cyclone Jasper continued into January, utilisation was strong across almost all facilities.

Particular note to the improvement of utilisation at Koah Community Hall, Mareeba Sports Hall and the Geraghty Park Hall.

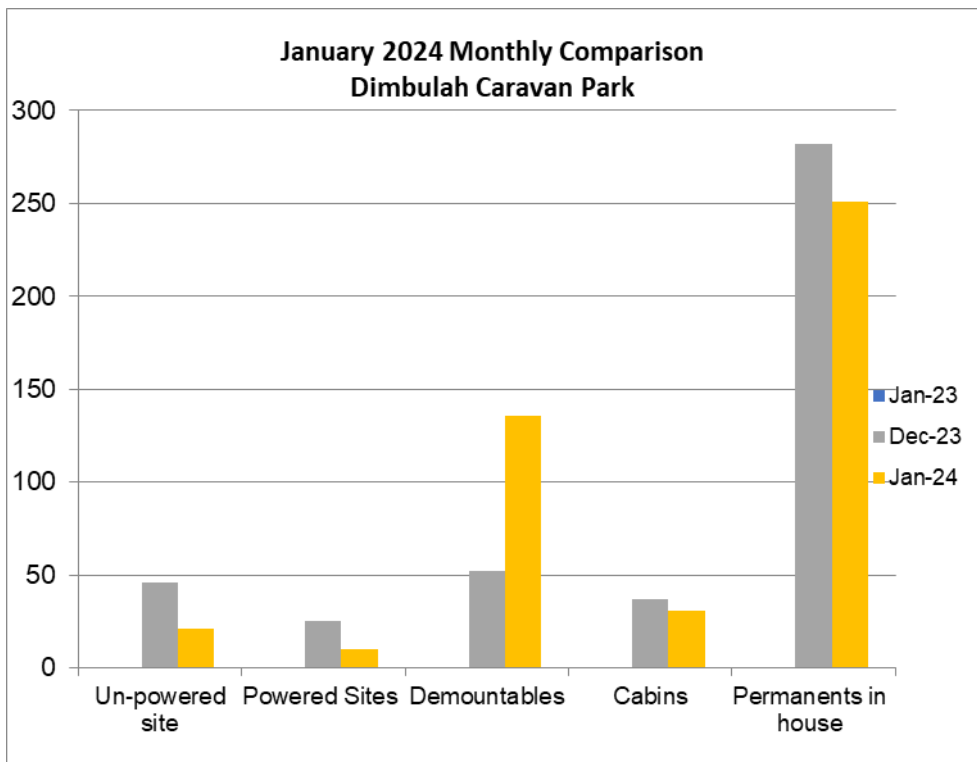


Caravan Parks:

Mareeba Riverside Caravan Park overall tenant numbers were generally consistent with the previous month, however a change in the recorded offering type was recorded, ie; increase in demountable usage with corresponding reduction in powered / unpowered sites.

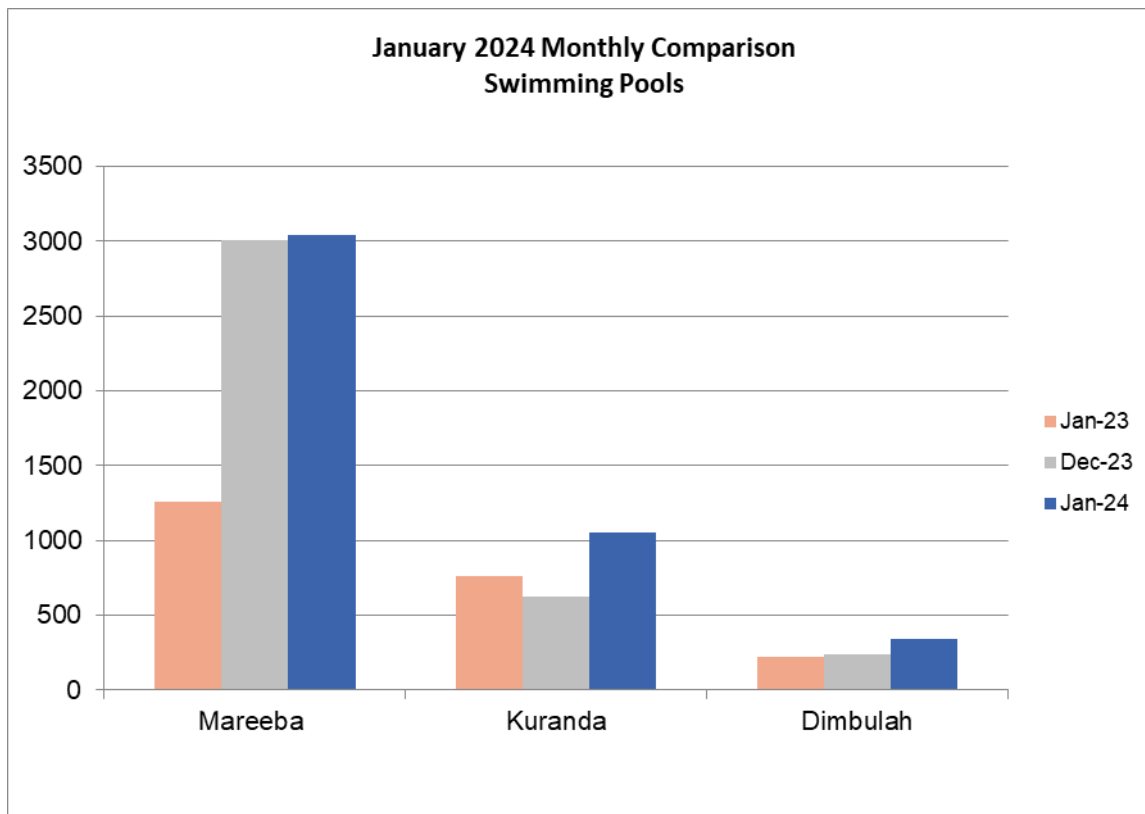


Dimbulah Caravan Park visitor numbers have varied across categories, but generally remained constant overall. Utilisation numbers for previous year is unavailable for comparison.



Aquatic Centres

Attendance numbers for all facilities were improved against previous months utilisation, which would align with the higher temperatures and school holiday period. The impact of Cyclone Jasper were spread across the December / January period, with extended closure of Kuranda Aquatic facility due to power disruptions.



Vandalism & Graffiti:

During January, ten (10) reports of vandalism and graffiti were recorded for Council facilities, with annual costs provided below;

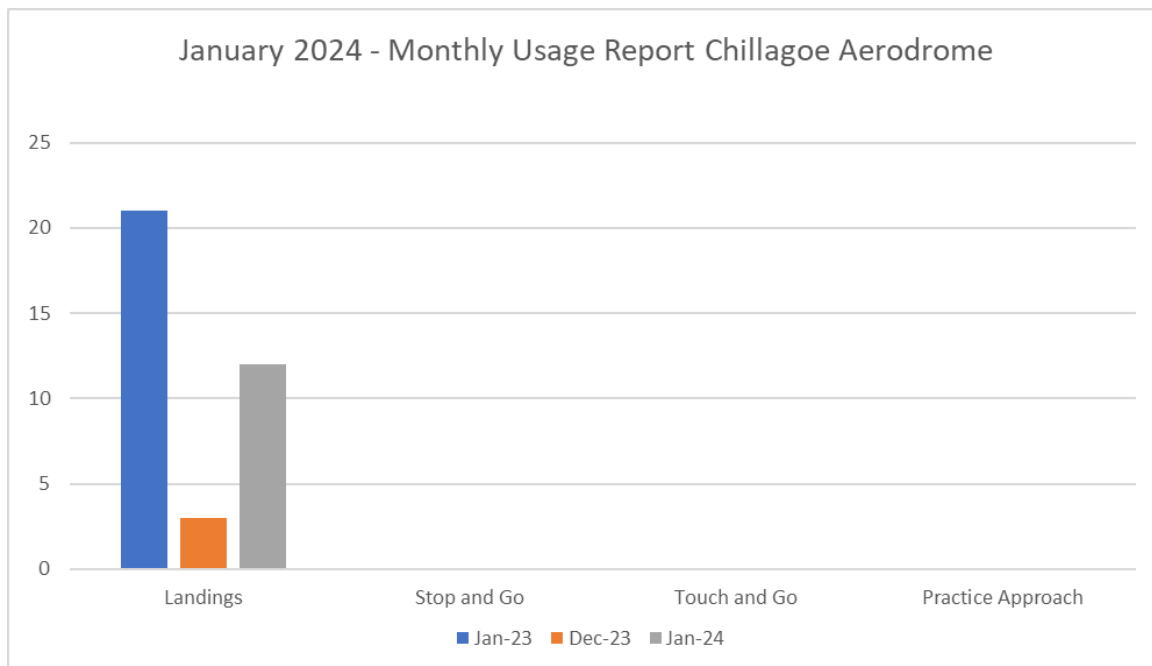
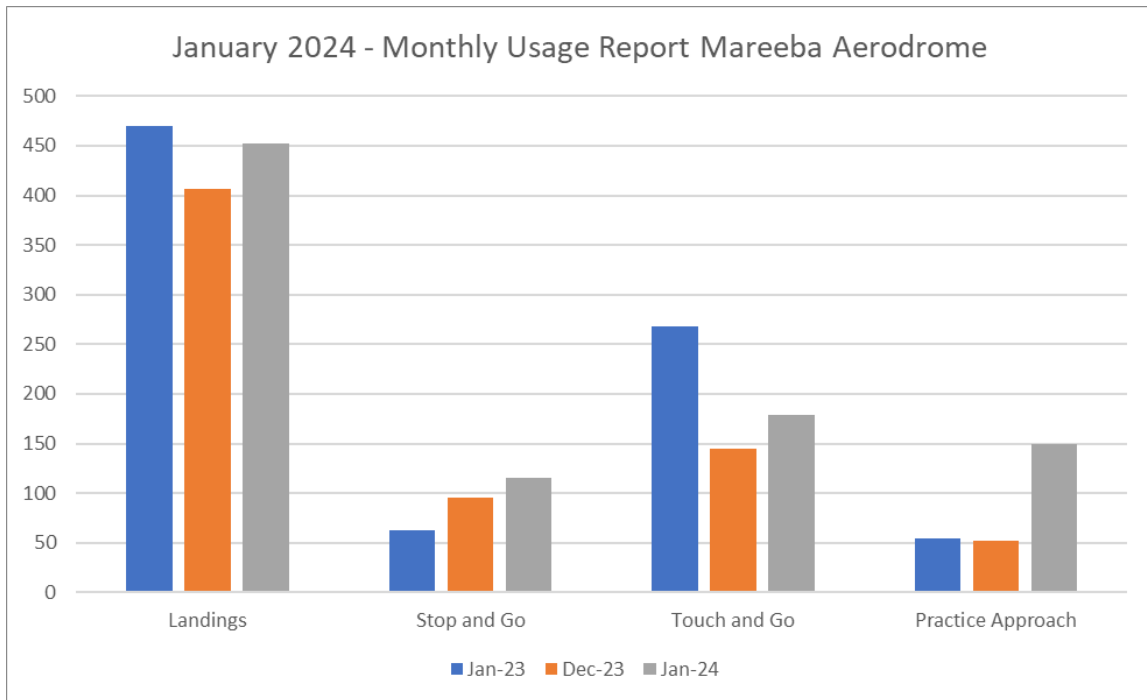
Financial Year	Actuals	Comments – January 2024
2015/16	\$ 2,134.00	<ul style="list-style-type: none"> • Kuranda Community Precinct - Vandalism x1 • Mareeba Theatre Hall - Vandalism x2 • Mareeba CWA Toilets - Vandalism x1 • Mareeba Rankin Street Office - Vandalism x1 • Mareeba Arnold Park Toilets – Vandalism x3 • Julatten English Park Hall – Vandalism x1 • Mareeba Kowa Street Depot & Offices – Vandalism x1
2016/17	\$ 16,546.00	
2017/18	\$ 23,948.00	
2018/19	\$ 14,851.00	
2019/20	\$ 14,211.18	
2020/21	\$ 62,199.62	
2021/22	\$ 48,301.12	
2022/23	\$33,030.18	
2023/24	\$7,884.72	

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 January, 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.

While utilisation of Mareeba Aerodrome for general aviation was adversely impacted by weather events related to TC Jasper, the aerodrome became an important base for refuelling rotary wing aircraft which were operating to provide emergency response activities, particularly with the range road closures following the event.



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.

9.4 INFRASTRUCTURE SERVICES, WATER AND WASTE OPERATIONS REPORT - JANUARY 2024

Date Prepared: 29 January 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 January 2024.

RECOMMENDATION

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

The Water Services Regulator was notified of a water main break and blocked intake event at Kuranda that impacted water supply during late January.

In addition, a sewer blockage incident resulting in the ongoing release of untreated wastewater into the Barron River at Mareeba was notified to the Department of Environment, Science and Innovation, the Water Service Regulator and Queensland Health. A media release regarding this event has been distributed. Monitoring to assess the environmental and public health risk is being undertaken, and measures implemented to mitigate health risk and environmental harm while a solution is being implemented.

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)	7,380	848	240	183	119
Number of Connections	4,141	1053	127	246	111
Average daily water consumption per connection (L)	1,782	805	1,890	743	1,074

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

Wastewater Treatment	Mareeba	Kuranda
Wastewater Plant average daily treatment (kL)	5,304	291
Number of Connections	3,519	356
Average daily inflow per connection (L)	1,507	819

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

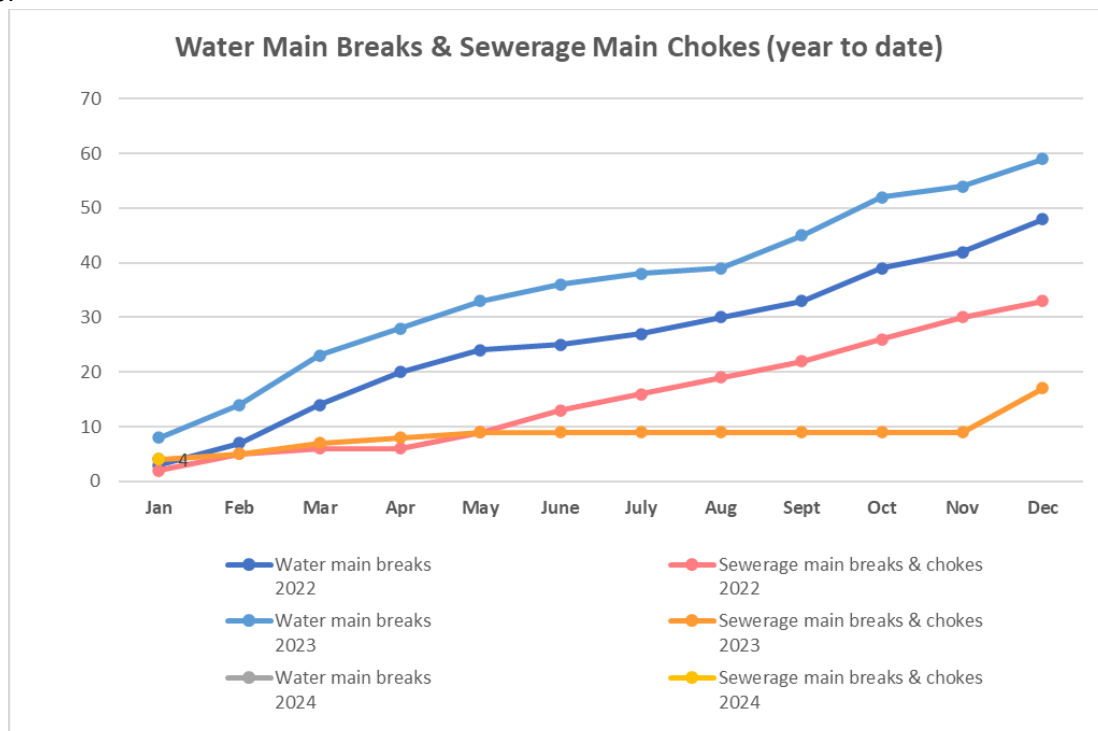
These projects will increase capacity of the plant and ensure that Council is able to supply safe water to residents and businesses in Mareeba now and into the future. Completion of the upgrades is programmed for mid-2024.

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 four (4) water main breaks, and four (4) sewer main breaks/chokes this month, and average response times were within targets set out in Council's customer service standard for water services.

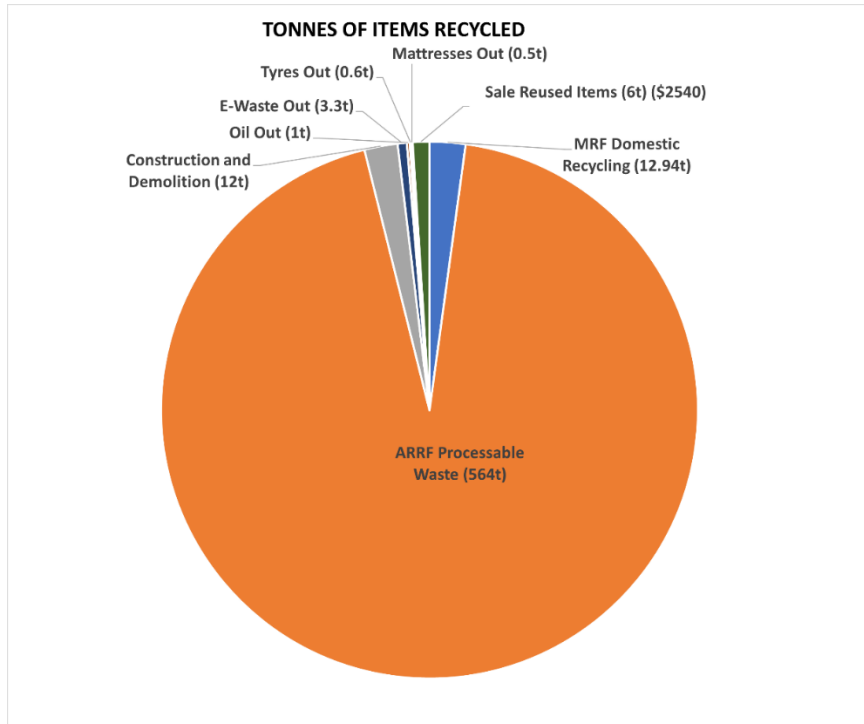
Monthly statistics are shown on the water reticulation main breaks and sewerage main breaks and chokes:



Waste Operations:

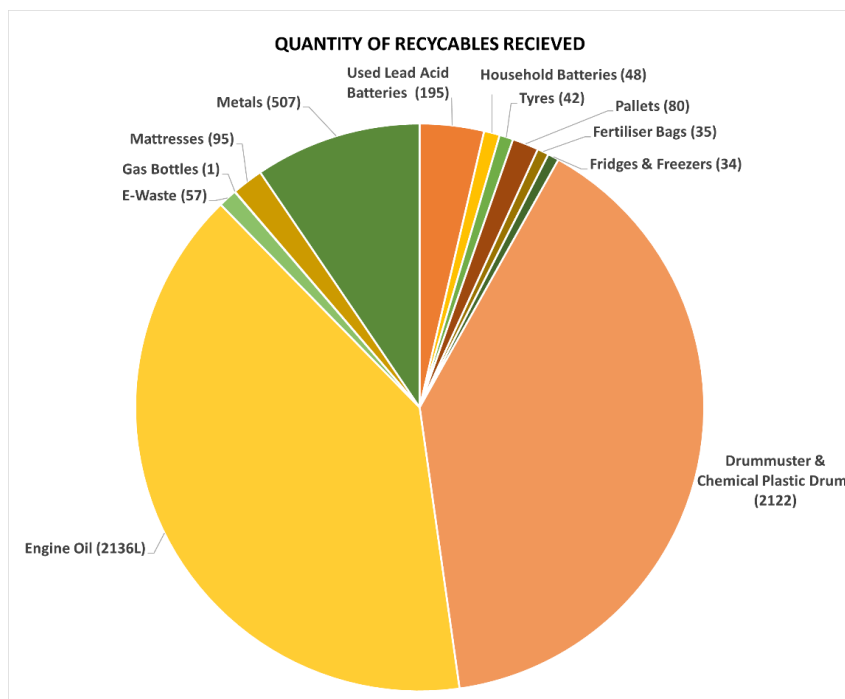
Waste material collected in Kerbside trucks is transported to the Advanced Resource Recovery Facility (ARRF) in Cairns for processing. Residual waste and waste collected at Transfer Stations is transported to Springmount Waste Facility, and recyclable material is transported to the Material Recovery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

During February, 564 tonnes of waste was processed through the ARRF, 215 tonnes of waste was sent to Springmount Waste Facility and 12.9 tonnes of domestic items were recycled at the MRF.



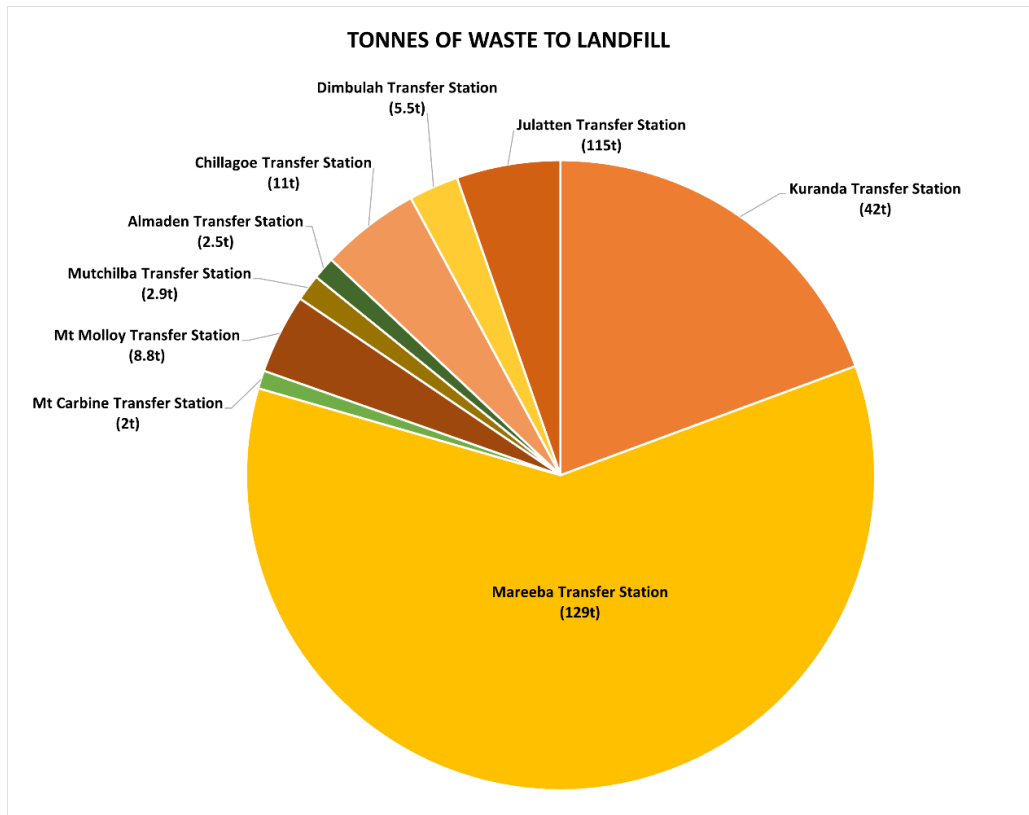
Recycling

Residents continue to recycle at the Transfer Stations. During February the highest count of recyclable items received were 2136 litres of Engine Oil, 2122 DrumMuster chemical drums and 507 Metal items.



Transfer Station Waste

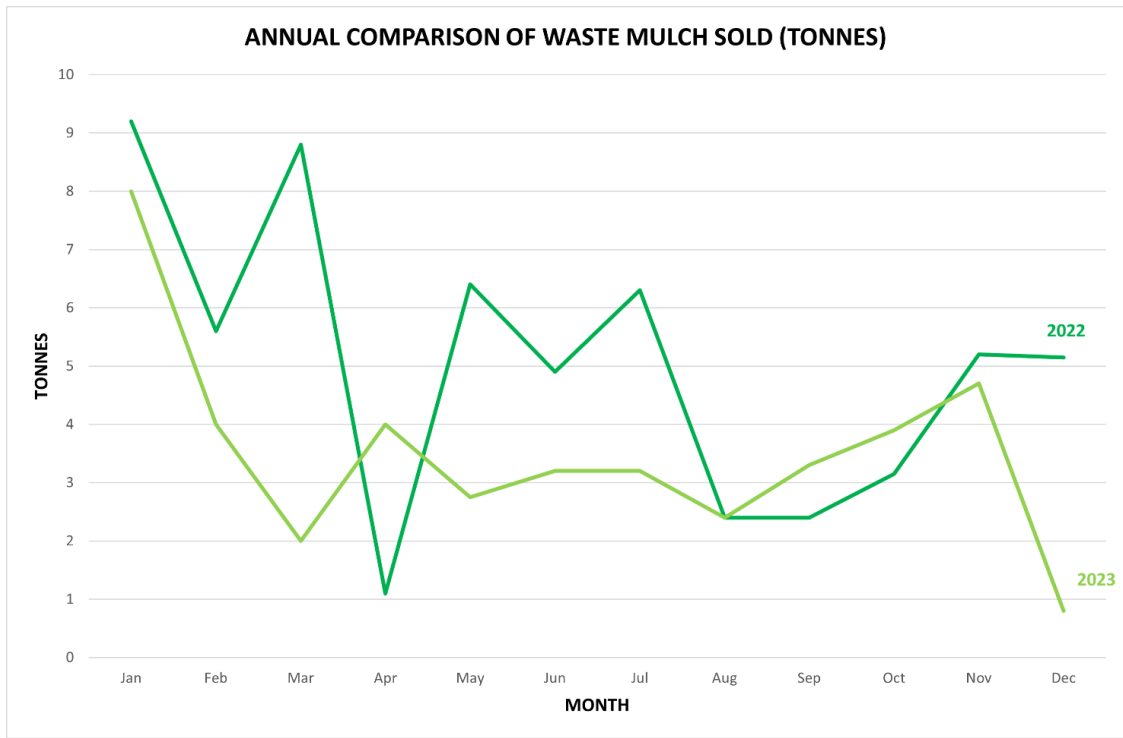
Transfer Station dry waste is transported off site to the Springmount Waste Facility. During February a total of 215 tonnes of waste was sent to landfill. Mareeba Transfer Station contributed to 129 tonnes to landfill, and Kuranda 42 tonnes.



Green Waste

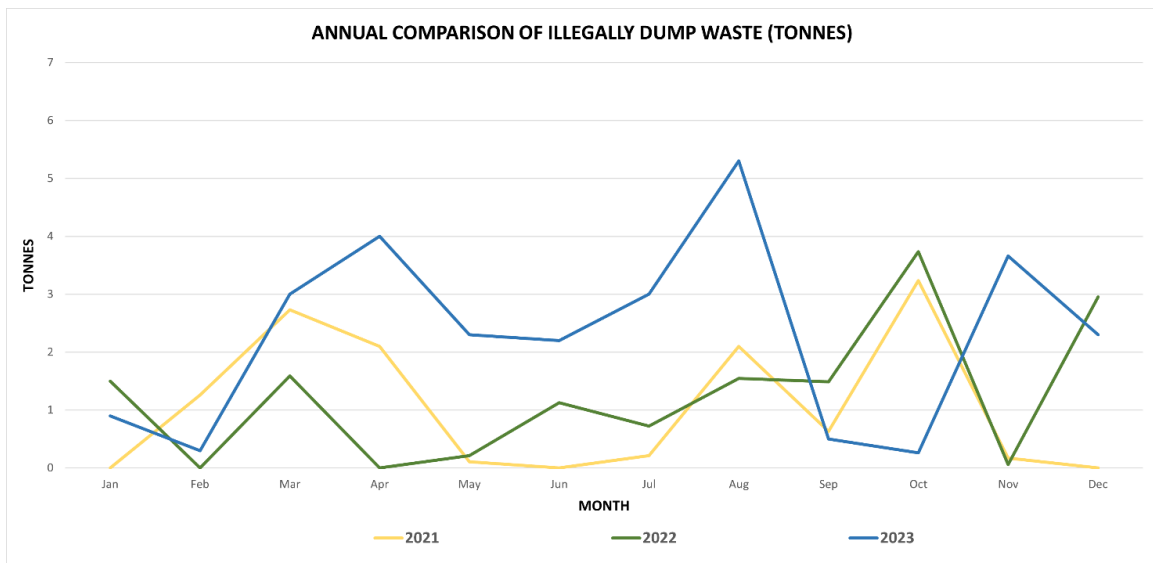
During January, Council received a total of 153 tonnes of green waste. Kuranda recorded 11.4 tonnes of green waste from locations registered as being potentially contaminated with Electric Ants. A total of 1.4 tonnes of waste mulch was sold during January.





Illegally Dumped Waste

Council cleaned up 8.3 tonnes of illegally dumped waste during February. Majority of this waste was collected near Mt Molloy and Mt Carbine.



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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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

9.5 INFRASTRUCTURE SERVICES, WORKS SECTION ACTIVITY REPORT - JANUARY 2024**Date Prepared:** 8 February 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 January 2024.

RECOMMENDATION

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

BACKGROUND

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

Transport InfrastructureGeneral Maintenance

The major activities carried out in January are listed below;

Activity	Area
Mowing	Chillagoe, Julatten, Dimbulah, Mt Molloy
Bitumen Patching	Arriga, Chewko, Mutchilba
Signage Repairs & Replacement	Mareeba, Mutchilba, Chewko, Kuranda
Herbicide Spraying	Paddy's Green, Mareeba, Mt Molloy, Chillagoe, Kuranda
Vegetation Management	Kuranda, Julatten
Unsealed Road Maintenance	Gamboola, Kuranda, Chillagoe, Mutchilba
Concrete Footpath Maintenance	Mareeba, Koah, Kuranda

There was no Unsealed Road Grading undertaken during the month due to weather events.

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.

At the time of reporting 190 roads within the shire had been allocated Work Orders to temporarily repair damage and maintain access.



Bilwon Road, Bibbohra



Lappa-Mt Garnet Road, Petford



Ootann Road, Almaden



Eichblatt Road, Watsonville



Fassio Road, Paddy's Green



Barron River Esplanade, Kuranda

Customer Requests

During the month of January, the Works Group received 265 Customer Requests (CRs) with 288 resolved (resolved requests include those received prior to January 2024). The table below shows the number of requests lodged per Works Section for the month.

Month	Roads	Parks and Gardens	Pest Management
January	215	42	8

At the time of reporting, the Works Group had 117 open requests.

Requests in relation to Cyclone Jasper and subsequent flooding are now being logged through Council's CR Management platform and are included in the above figures.

TMR Routine Maintenance Performance Contract (RMPC)

32A - Kennedy Highway (Cairns – Mareeba)

- Rest Area Servicing - Edmund Kennedy Bridge

34A – Mulligan Highway (Mareeba – Mt Molloy)

- Rural slashing Brady Road to River Road
- Rural slashing River Road to Mt Molloy
- Emergent Works - Pothole patching
- Road inspections and emergent works data collection

34B – Mulligan Highway (Mt Molloy – Lakeland)

- Rest Area Servicing - Riffle Creek, includes toilet cleaning, mowing and brush cutting
- Roadside Litter Collection - Riffle Creek, Mt Carbine Truck Stop and Bob's Lookout
- Wet weather activities at various locations on road as required – *eg.* Place out signs/tree removal, clean debris from McLeod Bridge
- Callout to place out signs at Spear and Rifle Creek due to flooding
- Emergent Works – Re-establish signposts at Spear and Riffle Creek, pothole patching
- Road inspections and emergent works data collection

653 – Mossman-Mt Molloy Road

- Roadside Litter Collection - Hunter Creek, Environ Park and Lyons Park
- Rest Area Servicing - Hunters Creek
- Wet weather activities at various locations on road as required – *eg.* Place out Road Closed signs at Bushy Creek and re-open road, clear trees Rex Range
- Emergent Works - Pothole Patching at various locations, remove/clear logs and debris build up on upstream side of Bushy Ck Bridge and clear landslips on the Rex Range
- Road inspections and emergent works data collection

664 – Mareeba-Dimbulah Road

- Wet weather activities at various locations on road as required – *eg.* Place out signs/tree removal, clear Granite Creek of debris
- Emergent Works - Pothole Patching at various locations, repair large sink hole (Vaughan Street)
- Road inspections and emergent works data collection

89B – Burke Developmental Road (BDR)

- Eureka Creek Rest Area Servicing - including mowing, brush cutting and litter removal
- Road inspections and emergent works data collection

6632 – Herberton – Petford Road

- Callout to clean drains and remove silt from roadway
- Road inspections and emergent works data collection



Culvert washout on Herberton-Petford Road

Parks and Open Spaces

With the onset of the wet season, parks in Mareeba, Dimbulah, Kuranda, Mt Molloy, Julatten and Chillagoe are now on fortnightly schedules with several playing fields in Mareeba being mowed twice weekly. Contractors have been engaged to mow Biboohra township, Irvinebank and Watsonville cemeteries, the Rail Trail and Shaban, Mooraridgi and Eales Parks.

Activities undertaken in January include:

- Hedging and weeding
- Northern approaches to Mareeba were slashed
- Setup and pack down Australia Day events
- Tree removal Mareeba and Kuranda
- Burials (including wall internments)—Mareeba x 12, Kuranda x 5, Mt Molloy x 1, Chillagoe x 1

Land Protection

1. **Parthenium Weed:** Inspections carried out on 13 sites. All landholders are complying with their bio security obligation. Continuing to monitor one (1) site every two (2) weeks with the other 12 every three (3) weeks.
2. **Navua Sedge:** First round of roadside spraying using selective herbicide on Council roads has been carried out in the Mt Molloy/Julatten area, follow up treatment required in 10 weeks.
3. **Giant Rats Tail Grass:** Roadside treatment using selective herbicide for control of Giant Rats Tail Grass (GRT) has commenced on council local roads.
4. **Cyclone Jasper Environmental Clean-up Assessment:** Assist an external assessor to access creeks and rivers to assess environmental damage caused by flooding.

5. **Feral Pigs:** Pig free feeding in the leadup for 1080 baiting program in the Chewko Road/Narcotic Creek Road area was stopped after several adjoining landholders raised concerns about the use of baits and requested properties use traps. Council has provided two (2) traps (joined) to a property owner and to date three (3) pigs have been trapped.

Invasive Turtles: In September, the Senior Land Protection Officer assisted the Queensland Department of Agriculture and Fisheries (DAF) install a turtle platform in Mareeba Bicentennial Lakes. The platform, equipped with a motion detection camera, was set in the middle of the lake adjacent to Keeble Street to photograph any turtles that climb onto the platform for sun to detect if any invasive turtle species, in particular the red-eared slider turtle, inhabit the site.

The platform was removed in December and DAF has since reported that no invasive species were detected.



Images from turtle platform camera at Bicentennial Lakes, Mareeba

FINANCIAL AND RESOURCE IMPLICATIONS

Operating

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

LINK TO CORPORATE PLAN

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IMPLEMENTATION/COMMUNICATION

Nil