

9 INFRASTRUCTURE SERVICES

9.1 INFRASTRUCTURE SERVICES, CAPITAL WORKS MONTHLY REPORT - OCTOBER 2021

Date Prepared: 20 October 2021

Author: Director Infrastructure Services

Attachments:

1. [Capital Works Highlights - October 2021](#) 
2. [Capital Works Summary - October 2021](#) 

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 October 2021.

RECOMMENDATION

That Council receives the Infrastructure Services Capital Works Monthly Report for the month of October 2021.

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 2021/22 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 - October 2021



Project Name: Kuranda Waste Transfer Station Weighbridge Project

Program: Waste

Background

As part of the ongoing implementation of Council's Waste Management Services Strategy, a new weighbridge and gatehouse are being installed at the Kuranda Waste Transfer Station. The project will improve access to the facility for users and assist Council in providing a more efficient waste management service.

Scope of Works

The scope of works includes supply, installation and commissioning of a single deck steel weighbridge, associated hardware, and construction of a new gatehouse.

Progress Update

The site works which include construction of concrete support plinths, approach ramps, electrical conduit installation and instrument connectivity conduits were mostly completed in October.

The works involved site fence extensions to accommodate the new weighbridge, civil works and concrete plinth works and running of electrical and communication lines and sealing of roadway.



Weighbridge construction works



Infrastructure Services Capital Works Report Project Highlights - October 2021



Project Name: Chillagoe Water Main Pipeline and Bore Project

Program: Water

Background

The purpose of this project is to support the continuity of water supply and increased pressure required to fight fire-fighting activities for the township of Chillagoe by providing a more reliable raw water supply to the Chillagoe Water Treatment Plant.

These works are part of Council's water strategy to address critical water issues across the Shire over the next 10 years. The project is fully grant funded under the Local Economic Recovery Program, which is jointly funded by the Australian and Queensland governments, and the Australian Government's Local Roads and Community Infrastructure Program.

Scope of Works

A new 4-kilometre 150mm supermain (PVC) pipeline has been installed from the newly established Bore through to Frew Street Chillagoe to service the Chillagoe Water Treatment Plant. The project includes all associated pipe work, electrical, telemetry and new bore connections.

Progress Update

Works completed in October:

- Bore pump has been delivered to Chillagoe
- Switch board and generator have been delivered and installed to site
- The telemetry poles have been installed and connected
- All electrical runs have been installed
- Instruments have been installed and checked

Works planned for November

- Bore pump to be installed
- Final connections made to board
- Commissioning of the pump to be undertaken

Final completion of the project is dependent on installation and commissioning of new mains power by Ergon.



*Newly constructed Motor Control Centre (MCC)
for the Bore & Telemetry*



Newly installed standby generator for the Bore & Telemetry

Infrastructure Services Capital Works Report Project Highlights - October 2021



Project Name: Mareeba North AC Pipe Renewal Water Main Upgrade Project

Program: Water

Background

An allocation has been provided in the 2021/22 Capital Works Program to replace the failed existing asbestos cement (AC) water main, along the Mulligan Highway Mareeba to maintain on-going water supply for properties.

This section of water main was identified for replacement following the numerous main breaks occurring in the past few years and are part of Council's strategy to address critical water issues across the Shire over the next 10 years.

Scope of Works

The scope of works includes replacement of the existing water main with 150mm PVC Supermain, in addition to new service connections, valving and hydrants. The section of water main currently underway at present is along Tobiano Street between Blacks Road and Debel Close.

Progress Update

Works commenced mid-October with an estimated four (4) month works program, weather permitting. Currently works are concentrated along Tobiano Street, Mareeba.



Laying and installation of the new 150mm diameter PVC Supermain water main

Infrastructure Services Capital Works Report Project Highlights - October 2021



Project Name: Kuranda - Barang Street AC Pipe Renewal Water Main Upgrade Project

Program: Water

Background

An allocation has been provided in the 2021/22 Capital Works Program to replace the failed existing asbestos cement (AC) water main, along the length of Barang Street, Kuranda. The works are from new main connections at Rob Veivers Drive to Arara Street to maintain ongoing water supply for properties.

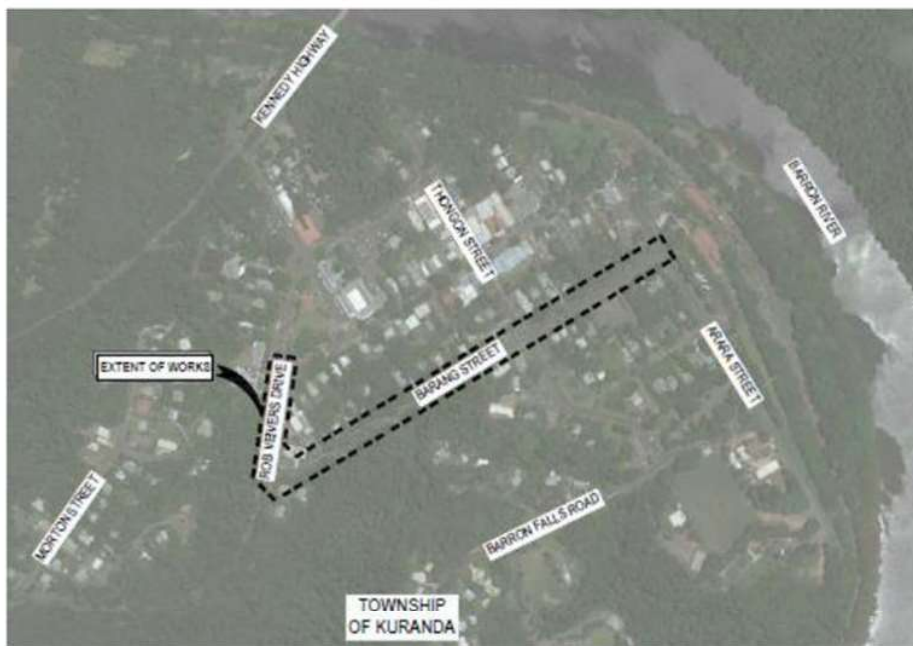
This section of water main was identified for replacement following the numerous main breaks occurring in the past few years, extreme difficulty for QRES to access fire hydrants that are currently located on undulating terrain conditions at some sections. This project is part of Council's strategy to address critical water issues across the Shire over the next 10 years.

Scope of Works

The scope of works includes replacement of the existing water main with a mixture of ductile iron 150mm pipe and 150mm PVC Supermain, in addition to new service connections, valving and hydrants.

Progress Update

Works commenced mid-October with an estimated four (4) month weather dependent construction program.



Map with extent of works area

Infrastructure Services Capital Works Report Project Highlights - October 2021



Project Name: Springmount Road Ch 7.55 - Ch 9.0 Rehabilitate and Widen

Program: Rural Roads

Background

Council has been undertaking progressive widening of Springmount Road to cater for increasing heavy traffic and to address ongoing defects, edge wear and edge drop. The widened road will provide a safer and more efficient route for road users.

Springmount Road is a Local Road of Regional Significance (LRRS) and the project is jointly funded by the Queensland Government through the Transport Infrastructure Development Scheme and Mareeba Shire Council.

Scope of Works

The scope of works includes the widening and sealing of Springmount Road to 8 metres sealed width between the Walsh River and Middle Creek Road. Within this section, concrete culverts were removed and replaced, extended or removed completely. Stankovich Road and Middle Creek Road intersections was also upgraded.

Progress Update

The project was bitumen sealed in late September and the line marking was completed in late October.



Ch 7580 - Before



Ch 7580 - After



Ch 8220 - Before



Ch 8220 - After

Infrastructure Services Capital Works Report Project Highlights - October 2021



Project Name: Bower Road Ch 1.44 - Ch 4.34 Widen Road and Causeway

Program: Rural Roads

Background

Much of Bower Road, Arriga is single lane width bitumen seal and is prone to edge wear and edge drop. The widened road will provide a safer and more efficient route for the increased volume of traffic in the area.

Bower Road is a Local Road of Regional Significance (LRRS) and the project is jointly funded by the Queensland Government through the Transport Infrastructure Development Scheme and Mareeba Shire Council.

Scope of Works

The scope of works included the widening and sealing of Bower Road to 7 metres between the Bower Road intersection and the Stanton Road intersection. The causeway at Ch 3.60km on Bower Road was also widened to as part of the project.

Progress Update

Works progressed well throughout October and the final bitumen seal was applied 28 October after which the road furniture was reinstated. The line marking will be undertaken later in November.



First Application of C320 Bitumen



Spreading 16mm Aggregate



Completed Two Coat Seal



Completed Two Coat Seal

Infrastructure Services Capital Works Report Project Highlights - October 2021



Project Name: 2021/22 Reseal and Asphalt Overlay Program

Program: Rural and Urban Roads

Background

Council undertakes an annual bitumen reseal and asphalt program in order to maintain its road network to a suitable standard. Bitumen resealing and asphalt resurfacing prevents moisture from penetrating through deteriorated bitumen and asphalt seals into the underlying pavement, protecting Council's roads from damage such as rutting and potholes.

Scope of Works

The scope of works includes bitumen reseals and asphalt overlays on a number of roads across Mareeba Shire to extend the useful life of the existing pavement.

Progress Update

The existing seal on the roundabout at the intersection of Rankin Street and Chewko Road, near the Mareeba High School, was a mixture of old, cracked and deformed asphalt and clay pavers.

During the September/October School holidays the pavers were removed and replaced with Type 2.1 Road Base and the existing asphalt was profiled out and the roundabout sealed with a 40mm layer of DG14 asphalt.



Rankin/Chewko Roundabout - Before



Rankin/Chewko Roundabout - After

**Infrastructure Services Capital Works Report
Project Highlights - October 2021**



Project Name: Euluma Creek Road Julatten, Rehabilitate and Widen

Program: Rural Roads

Background

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

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

Scope of Works

The first of these projects is the widening of the existing 3.9m bitumen sealed road to 8m including the replacement and extension of existing culverts from chainage 5550 to chainage 6330.

Progress Update

Project construction was programmed to take place either side of the 2020/2021 wet season with the drainage establishment and replacement and extensions of existing culverts to be completed prior to the 2020 Christmas close down. The pavement rehabilitation and widening activities commenced in October 2021.

Wet weather has hampered the progress of the widening activities, however it is anticipated that the milling, gravel overlay and stabilising components of the project can recommence in the second week of November.



Milling Operation



Geofabric put in place due to unsuitable subgrade



Infrastructure Services Capital Works Report Project Highlights - October 2021



Project Name: Kanervo Road - Davies Creek Bridge Replacement

Program: Bridges

Background

In August 2019, Council secured a grant under the Australian Government's Bridges Renewal Program towards upgrade of the existing bridge over Davies Creek on Kanervo Road.

A Level 3 engineering inspection and load assessment was undertaken on bridge in 2015 which identified significant deterioration of some of the timber girders and a load limit of 14 tonnes was imposed on the bridge. The purpose of this project is to restore the bridge to its original intended load limit and provide accessibility for heavy vehicles.

Scope of Works

The scope of works includes replacing the existing timber girders and deck of the bridge over Davies Creek on Kanervo Road with concrete precast deck units and a concrete deck.

Progress Update

At the time of reporting, 12 of the required 24 deck units had been fabricated at council's casting slab at the Kowa Street Depot. Site works will commence as soon as practicable after the 2021/22 wet season.



Girder Reinforcement



Pouring Concrete Girder



Concrete Finishing



Completed Girders

Infrastructure Services Capital Works Report Project Highlights - October 2021



Project Name: Toilet Facility Refurbishments

Program: Community Buildings

Background

Council is undertaking upgrades to the existing toilet facilities at 10 Acre Park - Chillagoe; Mareeba Heritage Centre; Tennis Courts - Dimbulah as part of an improvement programme over several years to update public restroom facilities throughout the Shire.

Scope of Works

The scope of works includes upgrading/replacing fixtures, installation of new flooring, painting walls both internal and external and other improvements required.

Progress Update

Initial works at 10 Acre Park, Chillagoe are completed, with some minor rectification works still to be completed. Mareeba Heritage Centre Toilets have been refurbished, with new vanities, partitions and flooring painted internally (before and after photos below). Refurbishment of the Dimbulah toilets will be programmed for the new year.



Mareeba Heritage Toilets (100 Park) - Before



Mareeba Heritage Toilets (100 Park) - After

Infrastructure Services Capital Works Summary Report - October 2021

Project Description	Project Stage	Progress Comment
Program: 01 Rural and Urban Roads Reseal Program (Renewal)		
2021/22 Reseal & Asphalt Program	Procurement	Rankin/Chewko Street roundabout resurfacing completed in October. John Doyle Bridge asphalt repairs are programmed for 19/20 November. Bitumen reseals will commence early April, weather permitting.
RD-05 Betterment Co-Contribution	Not Commenced	Funding set aside for potential betterment projects arising from 2021/22 DRFA events and as complementary expenditure for approved REPA projects.
Program: 02 Gravel Resheet		
2021/22 Gravel Resheet Program	Construction	During October, sections of Tyrconnell Road were re-sheeted using material reclaimed from the Bower Road capital project. Various sections of Grievson Road, Rasmussen Road and Black Mountain Road will be re-sheeted in conjunction with the Palm Valley and Euluma Creek Roads capital projects using re-claimed material from the milling process.
Program: 03 Urban Streets		
R2R Reynolds Street, Mareeba - Replace Kerb and Channel	Design	Programmed for January/February 2022. Water main renewal works to be undertaken prior to roadworks.
Program: 04 Rural Roads		
TIDS Bower Road, Arriga - Widen and Seal Ch 1.447-4.317	Construction	Final seal completed 28 October 2021. Line marking programmed for late November.
TIDS Euluma Creek Road, Julatten Ch 7.01-9.325 Rehabilitate and Widen 3 sections within chainage	Construction	Clearing and grubbing complete. Culverts and headwalls delivered to site late October.
TIDS Euluma Creek Road, Julatten Ch 9.350-10.130 rehabilitate and widen 3 sections within chainage	Design	Funding no longer split over two (2) financial years. Project will be delivered as part of 2022/23 Capital Works Program.
TIDS Springmount Road, Arriga - Rehabilitation Ch 7.55-9.00	Completed	Project completed October 2021.
R2R Wolfram Road, Dimbulah Priority Sections Stage 2	Design	Programmed for construction February to April 2022.
RD-14 R2R Palm Valley Road, Koah - Widen and Seal Ch 0.00-1.30	Construction	Project brought forward with works scheduled to commence early November 2021.
RD-60 Borzi Road, Mareeba - Widen and Seal Ch 0.03-0.67	Design	Project in design phase. Currently programmed for construction July to October 2022.
TIDS Euluma Creek Road, Julatten Ch 5.565-6.343 Rehabilitate and Widen	Construction	Drainage completed late 2020. Works re-commenced mid-October 2021. Wet weather is hindering progress and it is anticipated that pavement milling and overlaying can commence mid-November.
DRFA Betterment Co-contribution	Construction	Fossilbrook Road Lynd R. Causeway: Contractor mobilised to site on 13 October 2021 with completion scheduled for late November 2021.
Fallon Road, Kuranda - Rehabilitate Pavement Ch 0.874 - 0.948	Planning	On hold. Two (2) sites submitted to QRA for funding consideration. Awaiting advice from QRA.
Program: 05 Bridges		
Granite Creek, Mareeba - Replace Footbridge Deck (Eales Park)	Planning	Quotations to be invited for design in November.
Palm Close, Mareeba - Replace Footbridge Boards	Planning	Quotations to be invited for design in November.
Bicentennial Lakes Footbridge Safety Upgrade	Not Commenced	Project on hold - potential for the full area to be upgraded under Parks & Open Spaces Strategy.
Kanervo Road, Replace Timber Bridge over Davies Creek	Construction	Girder fabrication commenced 14 October 2021. To date 12 of the 24 girders have been poured.
Davies Creek Road Bridge Replacement	Design	Project is in design phase. Programmed for construction April/May 2022.
Hales Siding Road - Timber Bridge Replacement	Not Commenced	On hold pending discussions with funding body regarding potential deferral of project.
Program: 06 Drainage		
2021/22 Minor Culvert and Causeways Renewal	Construction	Mareeba Cemetery access culvert complete. RCP renewal on Springs Road to be programmed.
Amaroo Mareeba - Drainage Upgrade Stage 2 of 3	Design	Stage 2 section has been cleared and is currently being surveyed for design. Construction currently programmed for June / July 2022.
Program: 08 Parking		
Borzi Park, Mareeba - Carparking Masterplan	Not Commenced	Design programmed to start in early 2022.
Program: 09 Footpaths		
2021/22 Footpath Renewal Program	Not Commenced	To be programmed.
Basalt Gully Stewart Street, Mareeba Footpath Renewal	Design	Quotations closed and awarded. Footpath sections of Bicentennial Lakes will be completed prior to Christmas. The switchback link to Stewart Street is awaiting survey and design.

Infrastructure Services Capital Works Summary Report - October 2021

Project Description	Project Stage	Progress Comment
Rankin Street, Mareeba - Footpath Renewal (Chewko Byrnes)	Design	Quotations closed and awarded. Footpath from Byrnes Street to Abbott Street programmed for completion by Christmas 2021.
Program: 10 Parks and Gardens		
Mary Andrews Park, Mareeba - Replace Exercise Equipment	Procurement	Static exercise equipment has been ordered. Latest advice from Proludic indicates installation will commence 17 January 2022 and take approximately 1 week. Should the equipment arrive in Brisbane earlier than expected the installation may be brought forward subject to contractor availability.
2021/22 Park Entrance Sign Renewal Program	Procurement	Latest advice is signs will be delivered mid-November 2021.
Dimbulah Parks Irrigation Upgrades	Procurement	Materials ordered, waiting on pipe and timers. Irrigation upgrade will be complete within two weeks of supply.
Chillagoe Parks Irrigation Upgrades	Procurement	Irrigation upgrade is programmed for early November 2021.
Shire Beautification Program	Construction	Potential for a portion of the remaining balance of funds to be used to upgrade Byrnes Street Centre Islands between Hort and Middlemiss Streets.
Bi-Centennial Lakes - Seed Funding	Not Commenced	No grants identified as yet.
Mt Molloy Centre Islands, Replace irrigation and kerbing	Completed	Project completed October 2021.
LRCIP2 Shire-wide Parks, Open Space and Facility Upgrades	Planning	Projects to be identified as part of Parks and Open Spaces Strategy.
Program: 11 Water		
LER / LRCIP2 Chillagoe Bore & Water Main Construction	Construction	New bore pump and equipment shed constructed and new bore pump installed mid-October. Commissioning of pump to be undertaken mid-November. Ergon to confirm when mains power will be installed to the site, but currently programmed for January 2022.
Myola Road, Kuranda - Reservoir Flow Meter	Construction	New flow meters installed, waiting on electrical and telemetry connections to be established.
Warril Drive, Kuranda - Water Main Replacement	Construction	Works completed with some remediation work to be completed during November 2021.
W4Q5 Barang Street, Kuranda - Water Main Upgrade	Construction	Project construction works commenced mid-October with 3-4 month construction period, weather permitting.
Mareeba Transfer Holding Lagoon New Spare Pump	Procurement	Pump is on order with a long lead time for delivery anticipated.
W4Q5 Mareeba AC & Defunct Pipe Replacement 2.5km	Procurement	Council day labour commenced small section of project. Tenders closed for contractor-delivered section of project with report for tender approval to Council 17 November.
2021/22 Water Telemetry/SCADA Upgrades	Planning	Planning with Council's SCADA officer and external contractor underway. Some internal liaising with IT for server upgrades.
2021/22 Valve Replacement Program (Reticulation)	Construction	Some works were completed during September with saw three new valves installed in Chillagoe. Planning on other areas underway.
Mareeba WTP - Study for upgrade of wastewater system	Planning	This project will be delayed due to ongoing lock downs in NSW affecting the ability of City Water Technologies to perform their work.
Mareeba Water Treatment Plant - SML Reservoir Roof Replacement	Procurement	A further assessment of the internal roofing is scheduled for November to assess the roof to understand if the internal roofing can be repaired.
2021/22 Hydrant Renewal Program	Construction	Works underway with hydrants being replaced in Chillagoe and Mareeba. Further assessments underway for replacements where applicable.
Mareeba Water Treatment Plant Filtration Upgrade	Not Commenced	BOR Grant application submitted for this project and awaiting outcome of grant assessment.
Warril Drive, Kuranda - Water Main Replacement	Construction	New booster station has been commissioned and Council officers are gradually adjusting pressure pump set to required water pressure standards, feedback from residents has been very positive.
Mareeba and Kuranda WTP - Staged start-up of raw water pumps upgrade	Design	City Water Technology working on this project, there are some delays with this due to Covid travel restrictions though it will be completed prior to the end of the financial year.
Mareeba, Kuranda and Dimbulah - Replace Chlorine Analysers	Completed	Analysers installed and commissioned early September.
Mareeba Water Treatment Plant - filter 3 Install dedicated backwash pumps and reconfigure wash water feed pipes	Not Commenced	Project on hold pending outcome of grant application for new filter block.
Mareeba Water Treatment Plant - Optimise clarifier performance upgrade	Design	Report on project received from City Water Technologies with recommendations for further works.

Infrastructure Services Capital Works Summary Report - October 2021

Project Description	Project Stage	Progress Comment
Mareeba Water Treatment Plant - Backwash operation renewal	Not Commenced	Project pending outcome of grant application for new filter block. Working with City Water Technology for the implementation of this project, in conjunction with the new backwash system they are designing if grant funding is not successful.
Chillagoe Water Treatment Plant Filter Cell	Construction	Works to continue in November and December.
Program: 12 Wastewater		
Kuranda Wastewater Treatment Plant - Replace Sludge Conveyor Belts	Procurement	Quotes on new belts being sourced, once received they will be acquired and installed.
Telemetry/SCADA Upgrades	Planning	Project works being identified and planned with council's SCADA officer and external contractor. With two sewerage pump stations having the communication networks upgraded, currently working on two pump stations.
New Sewer Pump Station Standby Generators x2	Procurement	New generators on order with very long lead times for delivery. Once received they will be installed and commissioned.
2021/22 Mareeba Sewer CCTV & Relining Program	Procurement	Project awarded and expected to commence November 2021 with Relining Solutions.
2021/22 Mareeba Wastewater Treatment Plant Component Renewals	Procurement	Purchase orders issued for quoted goods. Potential long lead times on delivery of some items.
Granite Creek, Mareeba Sewerage Pump Station Refurbishment	Procurement	Project pre-start meeting held with Re-Pump Australia. They intend to mobilise to site in December and commence works January 2022.
2021/22 Mareeba Pump Station Magflow Install Program	Planning	Prioritising pump stations for flow meter requirements.
2021/22 Mareeba Wastewater Reticulation Pump Renewal	Planning	Currently assessing which SPS pumps require replacement, with one pump being replaced to date.
Minor Sewerage Pump Stations H2S protection and refurbishment	Construction	Tender awarded to Re-Pump Australia with pre-start meeting held and contractor advising materials for project currently being sourced.
Minor Sewerage Station H2S Protection	Construction	Preliminary works to commence prior to Christmas with the remainder of the works to be completed in the early 2022.
Mareeba Wastewater Treatment Plant - Aeration diffusers replacement (every 5 years)	Construction	Equipment has arrived and arrangements will be made for installation.
Mareeba Gravity Sewer Main installation from Cedric Davies to Lifestyle Sewerage Pump Station	Construction	Project works were initially anticipated for commencement late October / early November; Contractor has since advised that works will now get underway in December 2021.
Program: 13 Waste		
Mareeba Waste Facility Weighbridge Data Recording System	Construction	Software supplier selected and Council officers working with SUEZ toward getting data from existing software platform and setting up of new format for data reporting ahead of the anticipated 21 November change over date for software.
Kuranda Waste Transfer Station Weighbridge & Gatehouse	Construction	Major component of civil works completed, DHL Logistics have advised that key equipment has not left the Port of Singapore and there are delays getting this equipment to site which will see a rescheduled completion date for the weighbridge installation.
2021/22 Mareeba Waste Facility - Leachate Pump Station Pump Replacement	Construction	Works are underway and there is a need to rectify a concrete pit and replace some of the leachate lines due to deterioration.
2021/22 Mareeba Waste Facility - Leachate Sump Pump Replacement	Construction	Works are underway and there is a need to replace some of the leachate lines due to deterioration as part of the project.
Mareeba Waste Facility - Buy Back Shop Construction	Procurement	Development application submitted with relevant state body and Council. New shed for Buy Back Shop to be constructed prior to Christmas break subject to planning approval.
Mareeba Waste Facility - Design for New Landfill Cells	Procurement	New cell design underway, consultant working in conjunction with Council officers and work expected to take three to four months.
Program: 15 Fleet		
Fleet Replacement #1336 - LLOs Dual Cab Ute	Procurement	Purchase Order raised 10 September 2021; anticipated delivery December 2021.
Fleet Replacement #676 - Civil Works Truck	Procurement	Purchase Order raised 4 August 2021; anticipated delivery November/December 2021.
Fleet Replacement #1317 - Western Roads Landcruiser	Procurement	Purchase Order raised 4 August 2021; anticipated delivery November /December 2021.
Fleet Replacement #4009 Toro 72" Mower	Procurement	Purchase Order raised 23 August 2021; anticipated delivery November 2021.
Fleet Replacement #509 Backhoe	Procurement	Purchase Order raised 19 August 2021; anticipated delivery January 2022.

Infrastructure Services Capital Works Summary Report - October 2021

Project Description	Project Stage	Progress Comment
Fleet Replacement #1250 - Water and Waste Hilux	Procurement	Purchase Order raised 4 August 2021; anticipated delivery November 2021.
Fleet Replacement #1251 - Water and Waste Hilux	Procurement	Purchase Order raised 4 August 2021; delivery anticipated November/December 2021.
Fleet Replacement #4055 - Kubota 72" Front Deck	Procurement	Purchase order raised 21 July 2021; anticipated delivery December 2021.
Fleet Replacement #4053 - Husqvarna Zero Turn	Procurement	Purchase Order raised 26 October 2021; anticipated delivery January 2022.
Fleet Refurbishment #400 - Cat Excavator (Track)	Procurement	Purchase Order being raised; work will be completed over Christmas period shutdown.
Fleet Refurbishment Truck Mounted Water Tank	Planning	Work programmed for December / January during wet season.
Fleet Replacement #1239/1300 with 1x Pool Vehicle	Procurement	Purchased Order raised 4 August 2021; anticipated delivery November/December 2021.
GPS Vehicle Management System	Planning	Potential system and fleet to be fitted under assessment.
Replace Unit 5432 Sewerage Jet Rodder trailer with a hydro vac truck	Procurement	Monitoring auctions and will procure when suitable plant identified.
Fleet Purchase 3 x Portable Traffic Lights	Procurement	Investigating options to procure Portable Traffic Lights as a response to the changing Traffic Management Regulations being implemented Nationally from December.
Program: 16 Depots and Council Offices		
Kowa Street, MSC Depot - Air conditioning Replacement	Procurement	Contract awarded. Works to commence during Council's Christmas break.
Rankin Street, MSC Office - External Refurbishment	Planning	Scope of works being prepared, anticipate calling of tenders late 2021, early 2022.
Rankin Street, MSC Office - Air conditioning and General Roof Covers	Planning	Scope of works under consideration with quotations and implementation to be undertaken in conjunction with the External Refurbishment project.
Rankin Street, MSC Office - Town Planning Foyer Reconfiguration	Procurement	Tenders to be called 4 November 2021.
Kowa Street, MSC Depot - Emergency Generator	Planning	Project scope under review.
Program: 17 Community Buildings		
Dimbulah / Mareeba / Kuranda Pools Chlorine Dosing Improvements	Planning	Works to be progressed first half of 2022.
Mareeba Leagues Club Grandstand Refurbishment	Procurement	No tender responses received for the works. Will require reprice in the new year.
Geraghty Park Hall, Julatten - Toilet Access Upgrade	Completed	New flooring laid early October, project now complete.
Mareeba PCYC Shire Hall Part Roof Replacement	Design	DES heritage exemption certificate received 1 November 2021; subject to conditions. The heritage exemption to be assessed and the scope of works adjusted accordingly prior to tender submissions being sought.
2021/22 Shire-wide Ablution Refurbishment Program	Construction	Mareeba Heritage centre toilet refurbishments works were completed late October 2021. Further works to be identified and approval sought for balance of funds.
Koah Tennis Court - Remove/replace the unstable timber light poles	Not Commenced	On hold - Seed funding for potential development by Koah Community Group.
Kuranda SES Facilities Upgrade	Construction	Works progressing well, approvals received for locating the sand box from QAS. SES have made preliminary arrangements for works to be done prior to Christmas.
Program: 18 Non-Infrastructure Items		
DRFA Flood Warning Infrastructure Network MbaSC.0016.1819E.FWI - River Gauge (Biboohra)	Design	Preliminary assessment of each site's environmental and cultural heritage compliance requirements being undertaken. Installation works are scheduled to commence in April 2022 and be completed by June 2022.
DRFA Flood Warning Infrastructure Network MbaSC.0018.1819E.FWI - Rain Gauge (7 locations)	Design	Preliminary assessment of each site's environmental and cultural heritage compliance requirements being undertaken. Installation works are scheduled to commence in April 2022 and be completed by June 2022.
Kuranda New Cemetery	Planning	Draft layout options received from consultant are currently being reviewed.
Replace GPS Base/Rover and Controller	Procurement	Equipment delivered late October 2021.
Program: 20 KIAC		
KIAC - New Wayfinding Signage	Construction	External advice sought on quality of product and options for rectification.

9.3 INFRASTRUCTURE SERVICES, TECHNICAL SERVICES OPERATIONS REPORT - OCTOBER 2021

Date Prepared: 20 October 2021
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, Project Management, Facilities and Investigation Services activities undertaken by Infrastructure Services during the month of October 2021.

RECOMMENDATION

That Council receives the Infrastructure Services, Technical Services Operations Report for October 2021.

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

Investigation activities undertaken in October included:

Activity	Current Requests	Closed Requests
Road Infrastructure Review	71	59
Drainage Investigations	8	0
NHVR Permit Applications	0	15
Aerodrome Investigations	2	0
Traffic Count Surveys	0	14
Parks Investigations	2	1
Dial Before You Dig Requests	0	153

Soil Laboratory:

Council's Soil Laboratory provides NATA-accredited soil and material testing for internal and external services. The laboratory completed the following testing in the month of October:

Supplier	No. of Tests
Internal	94
External	133

Asset Inspections:

Scheduled inspections of Council's transport infrastructure assets have been undertaken during the month of October. Field inspections were directed towards culvert crossings of roads within the shire. In addition to these field inspections, work was completed towards improving data collected for the footpath, water, sewerage, roads and kerbs.

Inspections planned for November will continue to focus on the culvert crossings of roads, kerb and channelling, underground stormwater network as well as inspection of Council roads and other transport infrastructure.

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
Mareeba	Kenneally Estate Stage 4	On-maintenance
Mareeba	The Edge Stage 3	Under construction
Mareeba	The Edge Stage 3A	Under construction
Mareeba	Amaroo Stage 11	On-maintenance
Mareeba	The Edge Stage 2B	On-maintenance
Mareeba	Mareeba Roadhouse and Accommodation Park, Williams Close	On-maintenance - Monitoring
Kuranda	72 - 76 Mason Road Stage 1	On-maintenance
Kuranda	112 Barnwell Road widening	Monitoring
Koah	123 Fantin Road (Two Chain Road)	Under construction

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
2021 DRFA Program General	Mareeba Shire activated DRFA assistance measures linked to Tropical Cyclone Imogen and associated Low Pressure System that occurred 2- 12 January 2021. A consultant has been engaged to assist with delivery of the 2021 DRFA Program. Betterment projects are to be identified and submitted in future funding rounds.
2021 DRFA REPA Program	High priority sites have been awarded to successful contractors, following notification from QRA of eligible activities. A number of activities on Tinaroo Creek and Leafgold Weir Road were deemed ineligible by QRA, however, to ensure the integrity of the network, it is proposed to complete the original intended scope of works via complimentary Council funding. Tenders for the greater part of the REPA works, closed Monday 8 November and will be considered by Council at its next Ordinary Meeting, 15 December 2021. One remaining package of works, being the Culvert Restoration Program is to be submitted to QRA for assessment in December 2021.
2019 DRFA	Gamboola Crossing remains the only site not yet completed. Commencement occurred in late October, with completion expected prior to December 2021, weather dependant.

Program	Status
2019 Betterment	Fossilbrook Crossing remains the only site not yet completed. Commencement occurred mid-October, with completion expected prior to end of November 2021, weather dependant

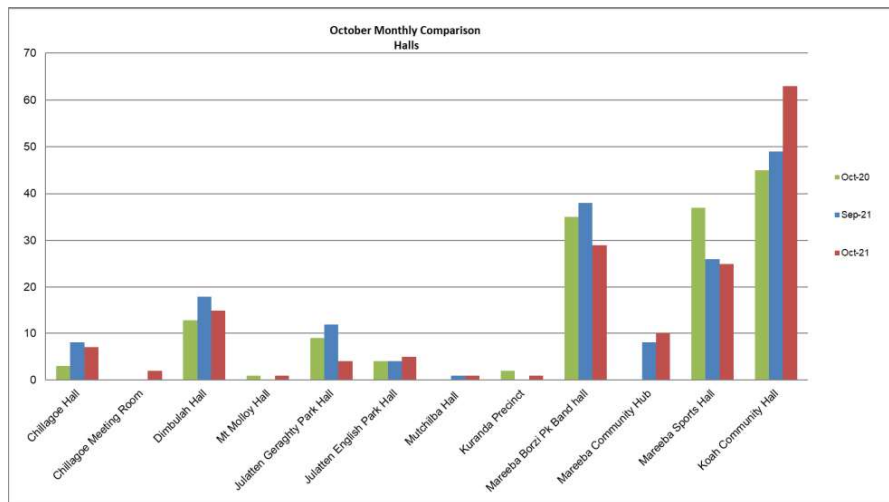
Facilities

Community Halls:

Maintaining safe and efficient access to Council Community Halls is recognised as an important aspect for the community's ongoing wellbeing. All facility users are required to comply with the conditions set out by the State Government's COVID-19 Restrictions Roadmap.

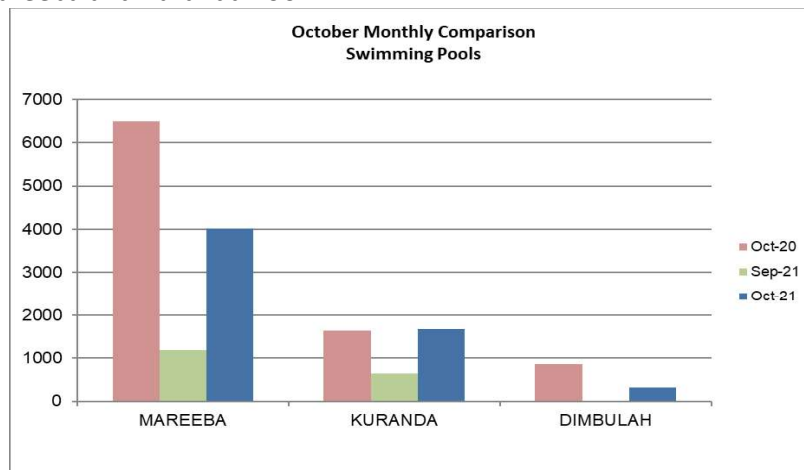
Generally, October hall hires remained steady across the portfolio, although Koah Hall provided a significant increase to utilisation. The Mareeba Cedric Davies Community Hub is still new to tracking, however interest continues to improve in its access.

As of 9 July, the "Check In Qld" App was made mandatory in Council's Facilities.

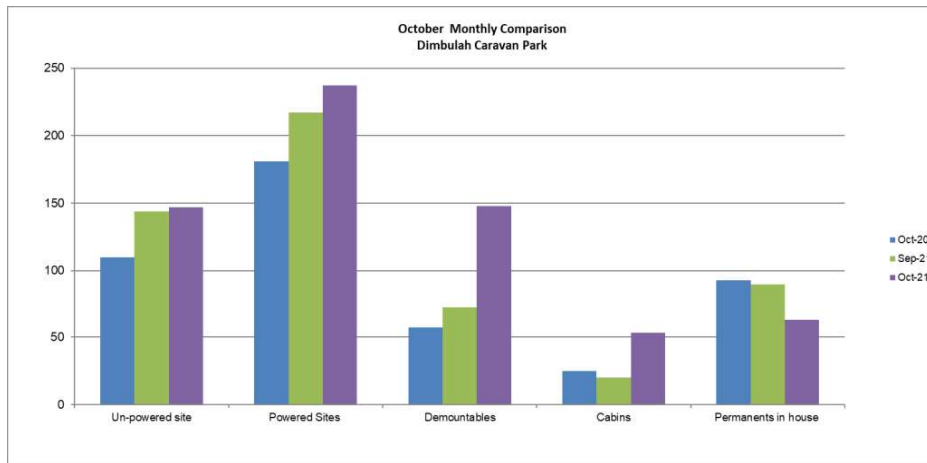
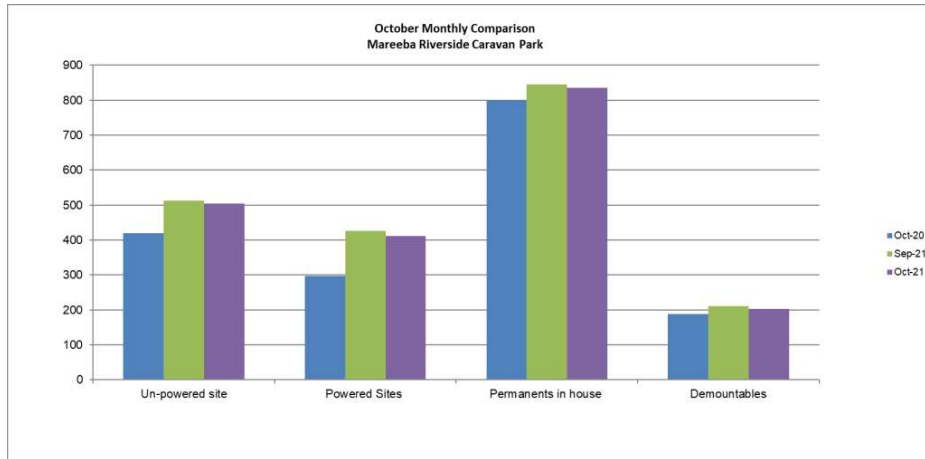


Swimming Pools

All Pools were open to the public with the new Managing Lessee undertaking a ground up review of practices at all facilities, which has (and will further) resulted in a number of changes, including gate entry practices at all facilities. School swimming lessons has commenced, and squad training is increasing at Mareeba and Kuranda Pool.



Caravan Parks:



Vandalism & Graffiti:

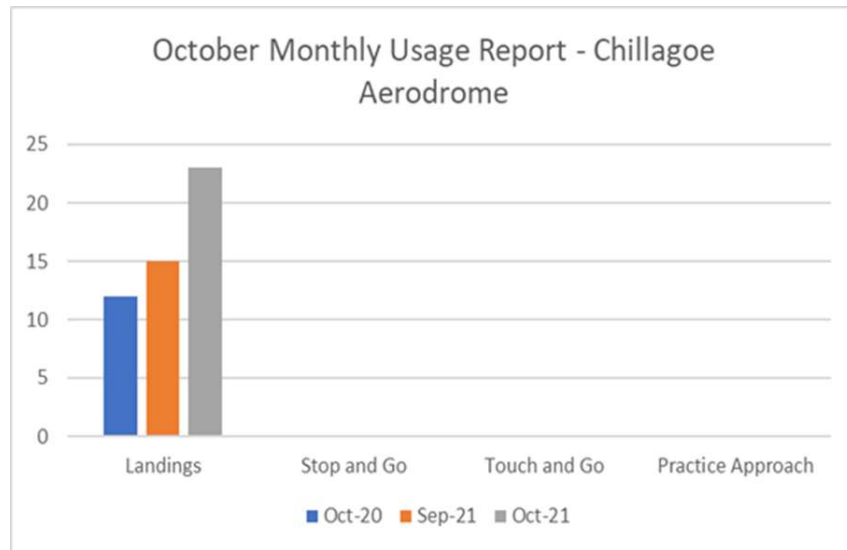
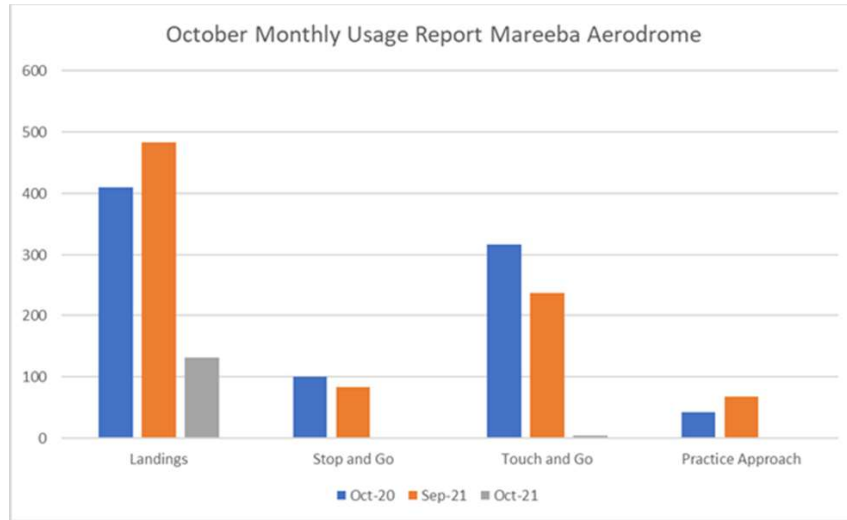
During October six, (6) reports of vandalism/graffiti were recorded for Council facilities, with annual costs provided below;

Financial Year	Actuals	Comments
2015/16	\$ 2,134.00	<ul style="list-style-type: none"> • Mareeba Rankin Street - vandalism • Mareeba Arnold Park toilets - graffiti • Mareeba CWA Toilets - vandalism • Mareeba Gymnastics Hall - vandalism and graffiti • Mareeba Pool secret garden - graffiti • Kuranda Centenary Park toilets - vandalism
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	\$12,617.92	

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

Mareeba Aerodrome recorded a reduction in activity for October, generally owing to the weather conditions. Chillagoe Aerodrome has only minor activity recorded for the period, however with consideration to month on month reporting, it has reflected significant growth.



LEGAL/COMPLIANCE/POLICY IMPLICATIONS

COVID-19 impacts in relation to closure and re-opening of facilities will be managed in line with Queensland Government requirements.

FINANCIAL AND RESOURCE IMPLICATIONS

Capital

Nil

Operating

Additional costs 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.

9.6 INFRASTRUCTURE SERVICES, WATER AND WASTE OPERATIONS REPORT - OCTOBER 2021

Date Prepared: 20 October 2021
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 October 2021.

RECOMMENDATION

That Council receives the Infrastructure Services, Water and Waste Operations Report for October 2021.

BACKGROUND**Water and Wastewater Treatment:**

All treatment plants are performing satisfactorily. Water demand was slightly higher across all schemes with higher than average consumption per connection, which may be attributed to the dry conditions currently being experienced.

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

Water Treatment	Mareeba	Kuranda	Chillagoe	Dimbulah	Mt Molloy*
Water Plant average daily production (kL)	9,959	1,433	434	480	112
Number of Connections	4,385	982	157	272	113
Average daily water consumption per connection (L)	2,271	1,459	2,764	1,765	991

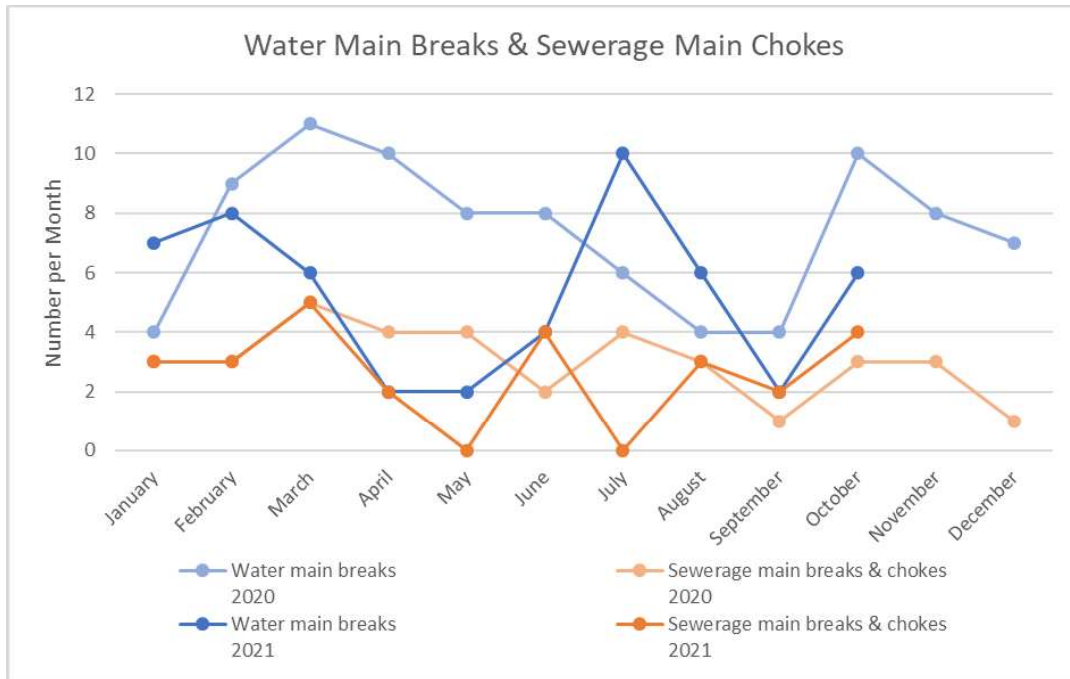
* Mt Molloy is an untreated, non-potable water supply

Wastewater Treatment	Mareeba	Kuranda
Wastewater Plant average daily treatment (kL)	2,021	229
Number of Connections	3,424	346
Average daily inflow per connection (L)	590	662

Water and Wastewater Reticulation:

Council's water reticulation crew attended to six (6) water main breaks and small water leaks and four (4) sewer main breaks 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:



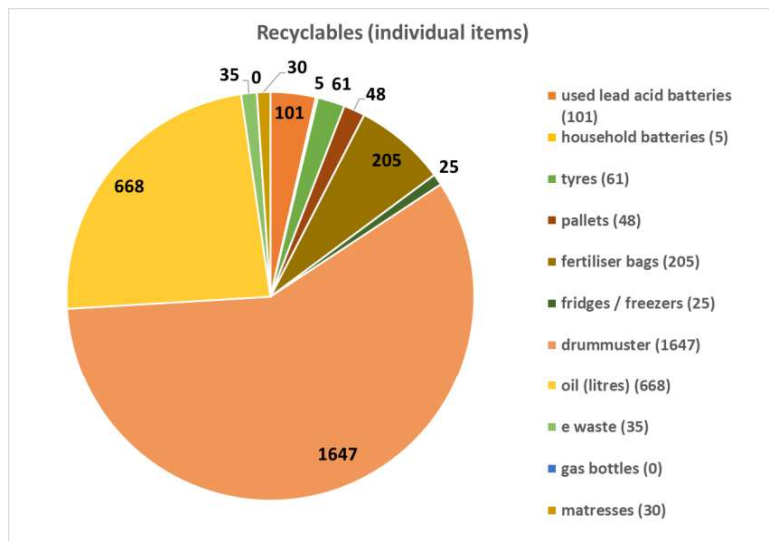
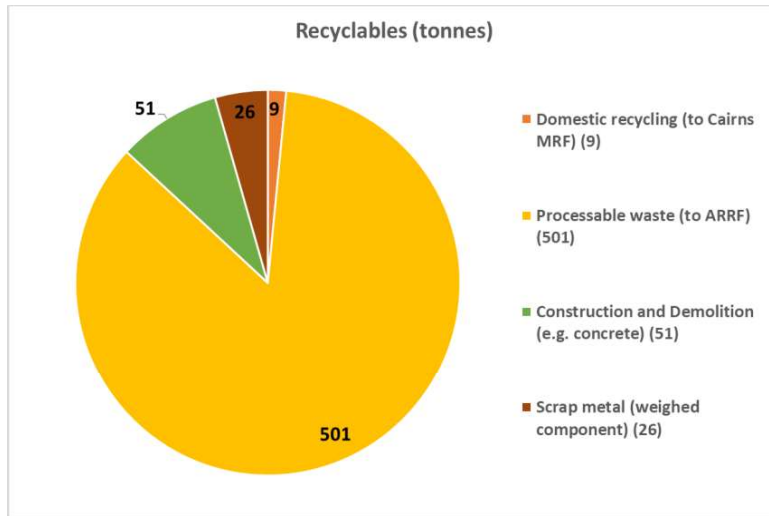
Waste Operations:

All transfer stations and Mareeba landfill are currently operational.

Recycling

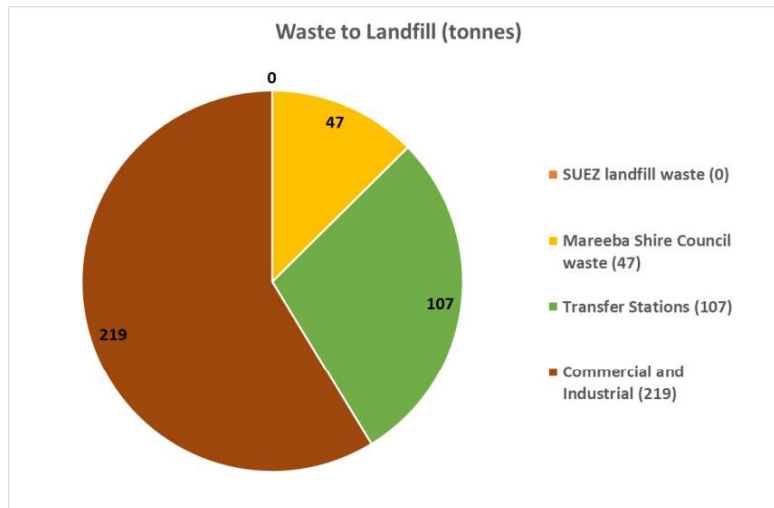
Waste material collected at each of the waste transfer stations are either deposited directly to the Mareeba landfill, recycled or transported to the SUEZ Advanced Resource Recovery Facility (ARRF) in Cairns for processing.





Waste to Mareeba Landfill

Mareeba Landfill is no longer receiving residual waste from the SUEZ Advanced Resource Recovery Facility (ARRF) plant in Cairns. Landfill waste in October includes minor quantities received from the waste transfer stations (Mareeba included), commercial and industrial waste, and waste that Mareeba Shire Council produces from its own activities.



Illegally Dumped Waste

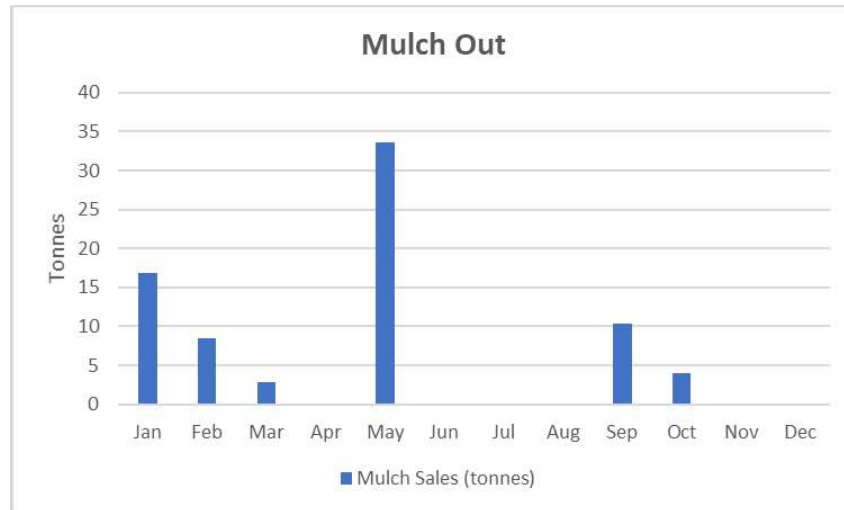
Council received three (3) illegally dumped tyres and one (1) illegally dumped vehicle and a fridge through Mareeba Waste Transfer Station during the month of October.



Green Waste

Council received a total of 105 tonnes of green waste in the month of October. Green waste was mulched in October, and there were 4 mulch sales. A Free Green Waste disposal day will be held on Saturday, 4 December 2021 and Sunday, 5 December 2021 for all transfer stations.





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

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

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

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

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

9.7 INFRASTRUCTURE SERVICES, WORKS SECTION ACTIVITY REPORT - OCTOBER 2021

Date Prepared: 8 November 2021
Author: Manager Works
Attachments: Nil

EXECUTIVE SUMMARY

The purpose of this report is to summarise Council's Transport Infrastructure, Parks and Gardens, and Bridge operational activities undertaken by Infrastructure Services during the month of October 2021.

RECOMMENDATION

That Council receives the Infrastructure Services, Works Progress Report for the month of October 2021.

BACKGROUND

Transport Infrastructure

Road Maintenance Activities

Unsealed road maintenance grading continued within the Shire in September, with the following roads being graded.

Area	
Dimbulah/Western	Eastern
Crystalbrook Road Maniopota Road	Oak Forest Road Armstrong Road Austin Road Jeffery Road West Mona Mona Road Black Mountain Road

During the month, other operational activities included:

- Cleaning of drains at the Mareeba Airport and installation of rock protection at drainage structures in the Mareeba area.
- Bitumen patching and isolated sealed pavement defect repairs in Mareeba and Kuranda areas.
- Gravel road patching on unsealed roads in the Kuranda area.
- A number of damaged signs were replaced, and 'No Camping' signs were installed at the John Doyle Bridge and the Brewery Hole in Mareeba.
- Vegetation management, slashing and herbicide spraying was carried out on rural roads in the Julatten, Mt Molloy and Kuranda areas; and
- Removal of the shade sail and fencing at the old Liberty Swing site in Centenary Park, Mareeba.

Customer Requests

Since the beginning of 2021, the Works Group has received 1,773 Customer Requests (CRs) with 1,731 of these requests resolved. The table below shows the number of requests lodged per month and the number of requests that were resolved.

Month	CRs Lodged	CRs Resolved
January 2021	269	197
February 2021	204	229
March 2021	196	195
April 2021	193	172
May 2021	167	177
June 2021	168	147
July 2021	144	154
August 2021	153	160
September 2021	154	190
October 2021	125	110
Total	1,773	1,731

At the time of reporting, the Works Group had 52 open (unresolved) requests.

Bridges and Major Culverts

Maintenance and inspections were carried out on the following bridges, causeways and major culverts during the month of October.

Location	Structure
Emerald Falls Road	Causeway
Sabin Road West	Causeway
Tinaroo Creek Road	Causeway
Wright Road	Causeway
Trimble Road	Causeway
Martin Avenue	Major Culvert
Kovacic Road	Bridge
Adil Road	Major Culvert
Seary Road	Major Culvert
Malone Road	Major Culvert
Henry Hannam Drive	Causeway
Emerald Falls Road	Causeway
Tinaroo Creek Road	Causeway
McIver Road	Causeway
Keeble Street	Major Culvert
Fichera Road	Bridge
Douglas Track East	Major Culvert
George Fabris Road	Causeway
Davies Creek Road	Causeway

The bridge crews have now commenced fabrication of the concrete girders for the Davies Creek Bridge Upgrade on Kanervo Road. It is anticipated that the fabrication process will take approximately five (5) weeks.

TMR Third Party Works

TMR Contract Number CN-14155: Burke Developmental Road Re-sheet Ch 440.42 to Ch 443 and Ch 448.99 to Ch 468.94

In March 2020, representatives of the Department of Transport and Main Roads (TMR) met with Council officers to discuss the re-sheeting of 22.53km of unsealed running surface on the Burke Developmental Road. Council's contract price was accepted in August 2020; however, a lack of construction water forced the project to be postponed until July 2021.

The project was completed mid-October and realised a total of 23,940m³ of road base carted, mixed, laid and compacted over a total distance of 19.57km. Included in these quantities is an additional 561.32m³ of road base to provide 300mm cover to existing culverts that occurred within the sections.



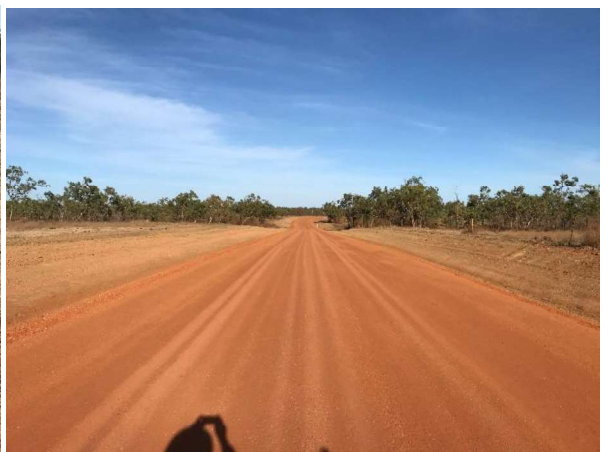
Table drain clearing and installation



Back watering operation



Completed running surface and table drain



Completed running surface

TMR Routine Maintenance Performance Contract (RMPC)

A medium formation grade was carried out between Almaden and Chillagoe in late October to coincide with the Chillagoe Rodeo. Approximately 700 tonnes of type 4.3 gravel was imported to cover exposed rock bars east of Chillagoe township on the Burke Developmental Road (BDR).

Medium formation grading commenced on unsealed sections of the BDR between Chillagoe and Ferguson's Crossing and this work is estimated to be completed during the second week of November.

Pipe and culvert inlet, outlet, headwall repairs and inspections have been completed on the Mareeba - Dimbulah Road, the Mulligan Highway and also the Herberton - Petford Road. Pipe inspections are continuing on the BDR.

Parks and Open Spaces

The Mareeba, Kuranda, Mt Molloy, Dimbulah and Chillagoe Parks and Gardens staff carried out regular programmed duties for the month of October. Mowing, slashing, irrigation repairs and cleaning making up the bulk of duties.

A full audit of public bins in the Mareeba township was undertaken during the month with findings and recommendations to be presented to Council in the future.

Land Protection

Parthenium Weed: Monthly inspections carried out on 12 sites. All landholders are complying with their biosecurity obligation. Council officers continue to monitor 11 of the sites every three (3) weeks.

Multi species weeds Emu Creek/Walsh River catchment: Work has continued along Emu Creek on the Walsh River catchment targeting two (2) *Jatropha* species, Rubber Vine and Siam Weed.

Amazon Frogbit: Land Protection staff are continuing to inspect our sentinel sites on the Mitchell River catchment and report that, to date, no Amazon Frogbit has been detected. Land Protection officers have been working with a local traditional owner organisation who are in the process of applying for grant funding to work on the Barron River catchment.

Pond Apple and Siam Weed: A joint taskforce of Mareeba Shire Council (MSC) and Tablelands Regional Council (TRC) are surveying and treating these two species that have been recently detected along Rocky Creek near the MSC/TRC boundary. Plants were found and treated in the MSC area and staff are hopeful the outbreak has not established into the Barron River. A follow up treatment will be necessary in the short term, working with TRC and State Government agencies.

Wild dogs: Baiting has been carried out on six (6) properties on the upper reaches of the Walsh and Lynd River catchments totalling 382,300 hectares of land.

Rabbits: Officers have undertaken two (2) releases of Calisivirus in October. One (1) at Mutchilba and one (1) at Irvinebank.

LEGAL/COMPLIANCE/POLICY IMPLICATIONS

COVID-19 impacts in relation to closure and re-opening of facilities will be managed in line with Queensland Government restrictions.

FINANCIAL AND RESOURCE IMPLICATIONS

Operating

All operational works are funded by the section specific 2021/22 maintenance budgets.

LINK TO CORPORATE PLAN

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IMPLEMENTATION/COMMUNICATION

Nil