

## 9 INFRASTRUCTURE SERVICES

### 9.1 INFRASTRUCTURE SERVICES, CAPITAL WORKS MONTHLY REPORT - AUGUST 2021

**Date Prepared:** 16 August 2021

**Author:** Director Infrastructure Services

**Attachments:**

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

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#### EXECUTIVE SUMMARY

The purpose of this report is to provide an update on capital works projects undertaken by the Infrastructure Services Department during the month of August 2021.

#### RECOMMENDATION

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

Nil

## Infrastructure Services Capital Works Report Project Highlights - August 2021



**Project Name:** Mareeba Pound Upgrade

**Program:** Community Buildings

### Background

The existing Mareeba Pound has serviced the community as both Council's animal impoundment facility and animal refuge. A condition inspection identified that the structure has reached the end of its functional use and a new facility is needed. Funded through the Queensland Government's Works for Queensland Program, the project will provide for a modern facility that meets current standards for health and safety and animal welfare.

### Scope of Works

The project provides for the construction of a dual-purpose facility capable of supporting both impoundment requirements of Council and an animal refuge/kennel. The scope of works for the project incorporates construction of a new building to the north of the current pound with associated fencing and roadworks. The existing facilities will be demolished at the completion of the new works.

### Progress Update

The Mareeba Animal Management Facility is open to the public and fully operational. Further works to seal the southern driveway are complete. The boundary fence is complete allowing the site to be secure. Demolition works for the old facility commenced on 28 August.



*Official opening of the facility 27 August*



*Completed cat enclosure*

## Infrastructure Services Capital Works Report Project Highlights - August 2021



**Project Name:** Hilltop Close Booster Station and Pipeline Project

**Program:** Water

### Background

The Warril Drive area of Kuranda is supplied with water via an existing pump station at the bottom of Warril Drive, where water is reticulated to residences along the remainder of Warril Drive, Hope Close, Punch Close and Hilltop Close. A reservoir on top of Hilltop Close provides balancing storage for periods of low use and as a backup for firefighting purposes.

A dedicated rising water main has been constructed, from the existing pump station to the reservoir to prevent pressure fluctuations caused by the existing pumps when filling the reservoir.

### Scope of Works

The scope of works includes supply and installation of new pipeline, alterations and cut-ins to existing water network, supply and installation of a new booster pump station structure and associated internal asset construction and installation and associated electrical and SCADA works.

### Progress Update

Construction commenced in July and is nearing completion. Once new pipework has been installed and lines charged, the electrical and telemetry works will be completed prior to commissioning.



*Cut in and laying new discharge and suction lines to the new booster pump station*



## Infrastructure Services Capital Works Report Project Highlights - August 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 new weighbridge is being constructed off-site and will be transported to site in September. The site works, which include construction of concrete support plinths and approach ramps will commence in early September. The electrical and communication lines will be installed in the coming weeks with connection to the weighbridge load cells to follow and commissioning is scheduled for the end of October.



*Indicative site layout and weighbridge construction for illustration purposes*

## Infrastructure Services Capital Works Report Project Highlights - August 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 is being 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 are progressing well with the pipeline works completed and connected to the water treatment plant's raw water intake line by mid-August. The contractor's civil team have de-mobilised from site and their electrical team is now installing the new electrical switchboard. Another crew will arrive around 20 September 2021 to install the bore pump.

Ergon were on-site late August and early September undertaking clearing works in preparation for the network connection works. This work has occurred sooner than expected and may see the network connection completed prior to Ergon's original programmed date of January 2022.



*Newly road crossing pipeline in DICL construction and pipeline air release valve*



## Infrastructure Services Capital Works Report Project Highlights - August 2021



**Project Name:** Mason Street Sewer Duplication Project

**Program:** Wastewater

### Background

There are several trunk gravity sewerage mains in the Granite Creek Sewer Pump Station (SPS) catchment. The catchment west of Railway Avenue (and James Street) and east of Granite Creek is served by a trunk gravity main that runs along Basalt Gully for most of its length. It has a number of incoming lines that includes the Mason Street gravity sewer main. In recent years, Council has experienced sewage surcharges (overflows) from two (2) maintenance holes on Mason Street gravity sewer main during wet weather events.

This critical project will address the capacity issues with the Mason Street trunk sewer main, which services residents and businesses in the south-western area of Mareeba township. The project is funded under the Local Economic Recovery Program, which is jointly funded by the Australian and Queensland governments, and Mareeba Shire Council.

### Scope of Works

A new gravity sewer main is being constructed from the road reserve behind Owens Street through the vacant land and east of Mareeba Cemetery, continuing north along Mason Street to Granite Creek Pump Station. Due to the complexity of the project, the project scope was split in two (2) phases. Phase 1 (current project) comprises the sewer main section south of Rankin Street and will temporarily discharge into the existing trunk sewer main which runs parallel to Basalt Gully, north of Rankin Street. Phase 2 will be undertaken as a future project to continue north and connect to Granite Creek Pump Station.

### Progress Update

Construction works are now complete with Council officers and the contractor undertaking a project construction walk through Friday 3 September prior to achieving practical completion. The new sewer main is now in service with all branch connections and services established.



*CCTV inspection footage on newly installed sewer main*

## Infrastructure Services Capital Works Report Project Highlights - August 2021



**Project Name:** Warril Drive 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), on Warril Drive, Kuranda 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. These works are part of Council's water strategy to address critical water issues across the Shire over the next 10 years.

### Scope of Works

The scope of works includes replacement of 600 metres of existing AC water main with 150mm PVC Supermain pipe work, in addition to new service connections, valving and hydrants. The section of water main being replaced is on Warril Drive between Shane Court and Punch Close, Kuranda.

Works will also involve new service connections, valving and hydrants running new water services to properties along the section of new works.

### Progress Update

Works commenced on Monday, 16 August with an estimated six (6) week works program, weather permitting. Council day labour is carrying out the works and to date approximately 200 metres has been completed.



*Newly pipeline construction and service connections*



## Infrastructure Services Capital Works Report Project Highlights - August 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 are to be removed and replaced, extended or removed completely. Stankovich Road and Middle Creek Road intersections will also be upgraded.

### Progress Update

Works have been progressing well and at the time of reporting, all drainage structure replacements, extensions and additions have been completed. Cut/fill operations are underway and the placement of base gravel for the widening will commence around mid-September, weather permitting. Works are estimated to be completed by mid-October.



*Preparation for major culvert extension*



*Installing RCP extensions*



*New headwall formwork*



*Completed extension*



## Infrastructure Services Capital Works Report Project Highlights - August 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 will also be widened to as part of the project.

### Progress Update

Works continued throughout August and at the time of reporting the widening and sealing of the section from the causeway on Bower Road to Stanton Road had been completed and works have commenced on the culvert widening. Once the culvert widening has been completed the final section from the intersection of Bower Road and Tyrconnell Road to the newly constructed causeway will be widened and sealed. It is estimated that the project will be completed by mid-October weather permitting.



*Replacing unsuitable material with rock and bidim*



*Sealing between McBean and Stanton Roads*



*Sealing between McBean Road and causeway*



*Preparation for culvert installation at Ch 3.60*

## Infrastructure Services Capital Works Report Project Highlights - August 2021



**Project Name:** Paved Path Upgrade - Main Street to Mt Molloy State School

**Program:** Footpaths

### Background

In November 2020, Mareeba Shire Council was advised of a successful grant application under the School Transport Infrastructure Program (STIP) for funding to replace uneven and slippery paved sections of the footpath running from Main Street to the front gates of the Mt Molloy State School.

### Scope of Works

The scope of works includes the replacement of 430m of paved sections of the path with concrete and the installation of culverts at strategic points to reduce ponding of stormwater.

### Progress Update

Works commenced 6 April 2021 adjacent to the Mt Molloy State School to take advantage of the school holidays. The path and culverts were completed to the western side of the pedestrian crossing on Fraser Road in May and staff have returned to complete the project.

Works are programmed to be completed late September, weather permitting.



*Culvert crossing adjacent to Fraser Road*



*Completed section adjacent to Fraser Road*



*Formed path*



*Trowelling path*



## Infrastructure Services Capital Works Summary Report - August 2021

Project Description	Project Stage	Progress Comment
<b>Program: 01 Rural and Urban Roads Reseal Program (Renewal)</b>		
2021/22 Reseal & Asphalt Program	Procurement	Report to be tabled at 20 October 2021 Ordinary Council meeting to award tender for the 2021/22 Bitumen Reseal & Asphalt Program.
<b>Program: 02 Gravel Resheet</b>		
2021/22 Gravel Resheet Program	Not Commenced	To be programmed.
<b>Program: 03 Urban Streets</b>		
R2R Reynolds Street, Mareeba - Replace Kerb and Channel	Design	Project in design phase. Construction programmed for November / December 2021.
<b>Program: 04 Rural Roads</b>		
TIDS Euluma Creek Road, Julatten - Rehabilitate and widen Ch 5.565-6.343	Construction	Project will recommence mid to late October, weather permitting, with the widening and sealing of this section of Euluma Creek Road.
TIDS Bower Road, Arriga - Widen and Seal Ch 1.447-4.317	Construction	The widening and sealing of the section from the causeway on Bower Road to Stanton Road has been completed and works have commenced on the culvert widening. Once the culvert widening has been completed, the final section from the intersection of Bower Road and Tyrconnell Road to the newly constructed causeway will be widened and sealed. It is estimated that the project will be completed by mid-October, weather permitting.
TIDS Euluma Creek Road, Julatten - Rehabilitation Ch 4.98-9.325	Design	Project is in design phase. Construction programmed for April to June 2022.
TIDS Euluma Cree Road, Julatten - Rehabilitation Ch 9.016-10.12	Design	Project is in design phase. Construction programmed for June to August 2022.
TIDS Springmount Road, Arriga - Rehabilitation Ch 7.55-9.00	Construction	All drainage structures completed. Cut/fill operations underway. Placement of base gravel for the widenings will commence late in the second week of September, weather permitting. Works are estimated to be complete mid-October, weather permitting.
R2R Wolfram Road, Dimbulah Priority Sections Stage 2	Not Commenced	Construction programmed for February to April 2022.
R2R Palm Valley Road, Koah - Widen and Seal Ch 0.00-1.30	Design	Project in design phase. Construction programmed from February to April 2022.
Borzi Road, Mareeba - Widen & Seal Ch 0.03-0.67	Design	Project in design phase. Construction programmed for July to October 2022.
DRFA Betterment Co-contribution	Construction	Fossilbrook Lynd R. Causeway: Durack scheduled to commence in late September. Risk with the unseasonal wet weather being experienced and the potential for early storms to impact delivery.
Fallon Road, Kuranda - Rehabilitate Pavement Ch 0.874 - 0.948	Planning	Fallon Road stabilisation sites submitted to QRA for potential disaster funding towards the project.
<b>Program: 05 Bridges</b>		
Davies Creek Road Bridge Replacement	Design	Project is in design phase. Construction programmed for April/May 2022.
Granite Creek, Mareeba - Replace Footbridge Deck	Not Commenced	Commencing design September 2021. Currently programmed for construction April 2022 but could be brought forward if structural design complete by mid-October.
Palm Close, Mareeba - Replace Footbridge Boards	Not Commenced	Commencing design September 2021. Currently programmed for construction April 2022 but could be brought forward if structural design complete by mid-October.
Bicentennial Lakes Footbridge Safety Upgrade	Not Commenced	Project on hold - potential for the full area to be upgraded under Parks & Open Spaces Strategy.
Hales Siding Road - Timber Bridge Replacement	Not Commenced	On hold pending discussions with funding body regarding potential deferral of project.
Kanervo Road, Replace Timber Bridge over Davies Creek	Procurement	Construction programmed from December 2021 to April 2022.
<b>Program: 06 Drainage</b>		
2021/22 Minor Culvert and Causeways Renewal	Not Commenced	To be programmed.
Amaroo Mareeba - Drainage Upgrade Stage 2 of 3	Design	Project in design phase. Construction programmed programmed for June / July 2022.
<b>Program: 08 Parking</b>		
Borzi Park, Mareeba - Carparking Masterplan	Not Commenced	To be programmed.
<b>Program: 09 Footpaths</b>		
STIP - Mt Molloy Footpath - Replace 430m	Construction	Project re-commenced 12 August 2021. Currently on time and budget. Works are estimated to be complete by late September 2021.



## Infrastructure Services Capital Works Summary Report - August 2021

Project Description	Project Stage	Progress Comment
2021/22 Footpath Renewal Program	Not Commenced	To be programmed.
Basalt Gully Stewart Street, Mareeba Footpath Renewal	Design	Project currently in design phase. Once design received a tender will be called to have the work delivered by an external provider.
Rankin Street, Mareeba - Footpath Renew (Chewko-Byrnes)	Design	Project currently in design phase. Once design received a tender will be called to have the work delivered by an external provider.
<b>Program: 10 Parks and Gardens</b>		
Shire Beautification Program	Construction	Potential for a portion of the remaining balance of funds to be used to upgrade Byrnes Street Centre Islands.
Bi-Centennial Lakes - Seed Funding	Not Commenced	No grants identified as yet.
Mt Molloy Centre Islands, Replace irrigation and kerbing	Construction	Unsuitable trees and stumps have been removed and mass plantings of low growing and minimal maintenance ground covers has commenced to reduce area of lawn requiring mowing. Works will be completed by late October.
LRCIP2 Shire-wide Parks, Open Space and Facility Upgrades	Planning	Projects to be identified as part of Parks and Open Spaces Strategy.
Mary Andrews Park, Mareeba - Replace Exercise Equipment	Procurement	Static exercise equipment has been ordered and awaiting confirmation of delivery date. It is anticipated that installation will occur prior end of 2021.
2021/22 Park Entrance Sign Renewal Program	Procurement	Quotations have been called for replacement signs in Kuranda at Bartley Park, Hunter park, Gregory Terrace Park, Centenary Park, Kuranda Cemetery and Harris Park. Quotes received will determine what additional signs can be replaced in other areas of the Shire.
Dimbulah Parks Irrigation Upgrade	Planning	Scope of project will be finalised by the end of September. Installation of irrigation in October/November 2021.
Chillagoe Parks Irrigation Upgrade	Planning	Scope of project will be finalised by the end of September. Installation of irrigation in October/November 2021.
<b>Program: 11 Water</b>		
Warril Drive New Water Main and Booster	Construction	Project well advanced and contractor running a section of main along Hilltop Close, once connections are done and completed the project will then be commissioned.
Mareeba and Kuranda WTP - Staged start-up of raw water pumps upgrade	Design	In discussions with City Water Technologies to get this project underway.
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.
Mareeba Water Treatment Plant - Backwash operation renewal	Not Commenced	Project pending outcome of grant application for filter block
LER / LRCIP2 Chillagoe Bore & Water Main Construction	Construction	Project pipeline has been installed and connected to filter plant raw water intake line. Next stage of the project is for the bore pump and electrical and SCADA installation which is due for completion end of October. Ergon have been undertaking clearing works late August indicating they are slightly ahead and hopefully they will achieve the power connection sooner than end of January 2022.
Myola Road, Kuranda - Reservoir Flow Meter	Procurement	Materials for this project on order, once equipment arrives the works will commence in late September or early October.
Warril Drive, Kuranda - Water Main Replacement	Construction	Project underway and completed approximately 200 metres of pipe installation out of the total 600 metres for the project and also completed some of the service connections.
W4Q5 Barang Street, Kuranda - Water Main Upgrade	Procurement	Project awarded with a pre-start meeting anticipated early September where a post tender works schedule will be provided.
Mareeba Transfer Holding Lagoon New Spare Pump	Procurement	Having difficulties sourcing a new pump due to stock shortages. Pump may be available late 2021 or early 2022.
W4Q5 Mareeba AC & Defunct Pipe Replacement 2.5km	Design	Awaiting final design drawings for contractor-delivered section of works. Site area set up at Dunigan Park for council day labour installation section of works which will be done once materials arrive.
2021/22 Water Telemetry/SCADA Upgrades	Planning	Planning with Council's SCADA officer and external contractor underway.
2021/22 Valve Replacement Program (Reticulation)	Procurement	Seeking quotations from external service providers for assistance to deliver these works.

## Infrastructure Services Capital Works Summary Report - August 2021

Project Description	Project Stage	Progress Comment
Mareeba Study & upgrade of wastewater system	Planning	This project will be delayed due to ongoing lockdowns in NSW affecting the ability of City Water Technologies to perform their work.
Mareeba Water Treatment Plant - SML Reservoir Roof Replacement	Procurement	Tenders received are higher than budget allocation. Currently working with suppliers and engineering consultant on suitable alternatives for full replacement of the existing roof.
2021/22 Hydrant Renewal Program	Construction	Commenced. Works on this project will progressively be done throughout the year.
Mareeba Water Treatment Plant Filtration Upgrade	Not Commenced	Grant application submitted for this project and awaiting outcome of grant assessment.
Chillagoe Water Treatment Plant Filter Cell	Construction	Work on this project has commenced and will be completed as soon as possible.
<b>Program: 12 Wastewater</b>		
Mareeba Wastewater Treatment Plant - Aeration diffusers replacement (every 5 years)	Construction	Equipment has arrived and arrangements will be made for installation.
LER - Mason Street Sewer Main Upgrade	Completed	Project at completion stage with final walk through of project scheduled for 3 September prior to achieving practical completion.
Kuranda Wastewater Treatment Plant - Replace Sludge Conveyor Belts	Procurement	Quotes on new belts being sourced, once received they will be acquired and installed.
2021/22 Wastewater Telemetry/SCADA Upgrades	Planning	Project works being identified and planned with council's SCADA officer and external contractor.
New Sewer Pump Station Standby Generators x2	Procurement	Quotes sourced and purchase order to be issued shortly, there is an 18-week delivery lead time on the generators.
2021/22 Mareeba Sewer CCTV & Relining Program	Procurement	Tender awarded, with contract meeting to be held 2 September prior to commencing works.
2021/22 Manhole Rehabilitation and Replacement & Program	Procurement	Works progressing well and will be completed before end of 2021.
2021/22 Mareeba Wastewater Treatment Plant Component Renewals	Procurement	Purchase orders currently being issued for quoted goods. Potential long lead times on delivery of some items.
Granite Creek, Mareeba Sewerage Pump Station Refurbishment	Procurement	Tender awarded to Re-Pump Australia and a pre-start meeting will be scheduled early September.
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
2021/22 Mareeba Minor Pump Station H2S Protect/Refurb	Procurement	Project scope of revised works issued for tender with responses under evaluation.
<b>Program: 13 Waste</b>		
Mareeba Waste Facility Weighbridge Data Recording System	Procurement	Software supplier selected and awarded to iWeigh with pre-start meeting scheduled for 6 September with iWeigh, Council's IT and W&W officers.
Kuranda Waste Transfer Station Weighbridge & Gatehouse	Procurement	More Weigh Solutions selected as supplier, new weighbridge under construction off-site and will be transported to site in coming weeks with civil works expected to begin approximately 13 September.
2021/22 Mareeba Waste Facility - Leachate Sump Pump Replacement	Construction	Works are underway to replace some of the leachate lines due to deterioration as part of the project.
2021/22 Mareeba Waste Facility - Leachate Pump Station Pump Replacement	Construction	Works are underway to rectify a concrete pit and replace some of the leachate lines due to deterioration as part of the project.
Mareeba Waste Facility - Buy Back Shop Construction	Procurement	RFQ released for supply and installation of new shed.
Mareeba Waste Facility - Design for New Landfill Cells	Procurement	RFQ released for design of new landfill cells.
<b>Program: 15 Fleet</b>		
GPS Vehicle Management System	Planning	Meeting with potential supplier to occur early September.
Replace Unit 625 Mitsubishi Truck	Completed	Delivery received August 2021 following fabrication of body.
Replace Unit 5432 Sewerage Jet Rodder trailer with a hydro vac truck	Procurement	Monitoring auctions and will procure when suitable plant identified.
Fleet Replacement #1336 - LLOs Dual Cab Ute	Procurement	Quotations closed and evaluated. Order to be placed in early September.
Fleet Replacement #676 - Civil Works Truck	Procurement	Purchase Order raised 4 August 2021; anticipated delivery is November/December 2021.



**Infrastructure Services Capital Works Summary Report - August 2021**

Project Description	Project Stage	Progress Comment
Fleet Replacement #1317 - Western Roads Landcruiser	Procurement	Purchase Order raised 4 August 2021; anticipated delivery is November /December 2021.
Fleet Replacement #4009 Toro 72" Mower	Procurement	Purchase Order raised 23 August 2021; anticipated is November 2021.
Fleet Replacement #509 Backhoe	Procurement	Purchase Order raised 19 August 2021; anticipated delivery is January 2022.
Fleet Replacement #1250 - Water and Waste Hilux	Procurement	Purchase Order raised 4 August 2021; anticipated delivery is November 2021.
Fleet Replacement #1251 - Water and Waste Hilux	Procurement	Purchase Order raised 4 August 2021; anticipated delivery is November/December 2021.
Fleet Replacement #4056 - Toro 72" Front Deck	Procurement	Purchase Order raised 21 July 2021; anticipated delivery is September 2021.
Fleet Replacement #4055 - Kubota 72" Ft Deck	Procurement	Purchase Order raised 21 July 2021; anticipated delivery is December 2021.
Fleet Replacement #4053 - Husqvarna Zero Turn	Planning	Tenders closed 19 August 2021; Workshop Brief submitted 1 September 2021.
Fleet Refurbishment #400 - Cat Excavator (Track)	Procurement	Purchase Order 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	Purchase Order raised 4 August 2021; anticipated delivery is November 2021.
<b>Program: 16 Depots and Council Offices</b>		
Kowa Street, MSC Depot - Air conditioning Replacement	Not Commenced	To be programmed.
Rankin Street, MSC Office - External Refurbishment	Planning	Condition report to be conducted to assess works required. Report to be completed by mid-September.
Rankin Street, MSC Office - Air conditioning & General Roof Covers	Planning	Installation requirements assessed with consideration given to proposed post footing locations, existing ducting, maintenance access door and accessibility for servicing.
Rankin Street, MSC Office - Town Planning Foyer Reconfiguration	Design	Design consultant engaged. Pre-start meeting to be scheduled for the second week of September.
Kowa Street, MSC Depot - Emergency Generator	Procurement	Quotes received and being evaluated.
<b>Program: 17 Community Buildings</b>		
Koah Tennis Court - Remove/replace the unstable timber light poles	Not Commenced	On hold - Seed funding for potential development by Koah Community Group.
Mareeba, Dimbulah and Kuranda Aquatic Facilities - Remote monitoring of all pools	Not Commenced	On hold pending discussions with new lessee to determine if remote monitoring still required.
Dimbulah / Mareeba / Kuranda Pools Chlorine Dosing Improvements	Not Commenced	To be programmed.
Mareeba Leagues Club Grandstand Refurbishment	Procurement	Quotations called closing 13 September 2021. Work to be completed by 30 November 2021.
Geraghty Park Hall, Julatten - Toilet Access Upgrade	Construction	Contractor is engaged to complete works for the concrete path in September. Preparation of scope for toilet refurbishment underway.
Mareeba PCYC Shire Hall Part Roof Replacement	Design	Plumbing contractor engaged to undertake a condition assessment and provide a report detailing issues to enable prioritisation of work. Heritage exemption request lodged with DES.
2021/22 Shire-wide Ablution Refurbishment Program	Construction	Chillagoe 10 Acre Park: Completed. Mareeba Heritage Centre: Partitions are due for delivery on 8 September. Works to commence third week of September.
Kuranda SES Facilities Upgrade	Planning	SES Co-ordinator organising Contractors for building upgrade works. Meeting with QAS Asset Manager scheduled for 14 September for approval of 'sand box' location.
Dimbulah Pool Expansion Joint Repair	Construction	Works commenced and will be completed prior to scheduled pool re-opening on 1 October.
<b>Program: 18 Non-Infrastructure Items</b>		
DRFA Flood Warning Infrastructure Network MbaSC.0016.1819E.FWI - River Gauge (Bibohra)	Construction	Pre-start meeting arranged for 7 September.
DRFA Flood Warning Infrastructure Network MbaSC.0018.1819E.FWI - Rain Gauge (7 locations)	Construction	Pre-start meeting arranged for 7 September.



**Infrastructure Services Capital Works Summary Report - August 2021**

<b>Project Description</b>	<b>Project Stage</b>	<b>Progress Comment</b>
Kuranda New Cemetery	Design	Detailed site inspection completed, including provision of extensive site photos and drone footage to enable designer to continue with the masterplan design during COVID lockdown. Designer has contacted funeral service providers to update them on the progress and seek their individual feedback to assist in development of the master plan.
Replace GPS Base/Rover & Controller	Procurement	Quotations received and being evaluated.
<b>Program: 20 KIAC</b>		
KIAC - New Wayfinding Signage	Construction	Temporary Barron Falls Walking Trail signage installed. Supplier of signage has been unable to attend Council depot to inspect issues with signage received due to COVID lockdown so alternative approach will need to be taken to resolve concerns.
<b>Program: 23 W4Q3 - Works for Queensland 3</b>		
W4Q3 Mareeba Pound Upgrade Pound/Facility	Construction	Works for new facility complete. Demolition works to old facility to commenced on 27 August.



**9.2 INFRASTRUCTURE SERVICES, TECHNICAL SERVICES OPERATIONS REPORT - AUGUST 2021****Date Prepared:** 16 August 2021**Author:** Manager Technical Services**Attachments:** Nil**EXECUTIVE SUMMARY**

The purpose of this report is to summarise Council's Fleet, Design, Soils Lab, Survey, Quality, GIS, Project Management, Facilities and Investigation Services activities undertaken by Infrastructure Services during the month of August 2021.

**RECOMMENDATION**

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

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

Investigation activities undertaken in August included:

Activity	Current Requests	Closed Requests
Road Infrastructure Review	97	66
Drainage Investigations	6	6
NHVR Permit Applications	0	9
Aerodrome Investigations	1	0
Traffic Count Surveys	0	20
Parks Investigations	5	0
Dial Before You Dig Requests	0	134

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 August:

Supplier	No. of Tests
Internal	126
External	32

Asset Inspections:

Scheduled inspections of Council's transport infrastructure assets have been undertaken during the month of August. 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 August will continue to focus on the the underground stormwater network as well as the annual 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 & Accommodation Park, Williams Close	On-maintenance - Monitoring
Kuranda	72 - 76 Mason Road Stage 1	On-maintenance
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:

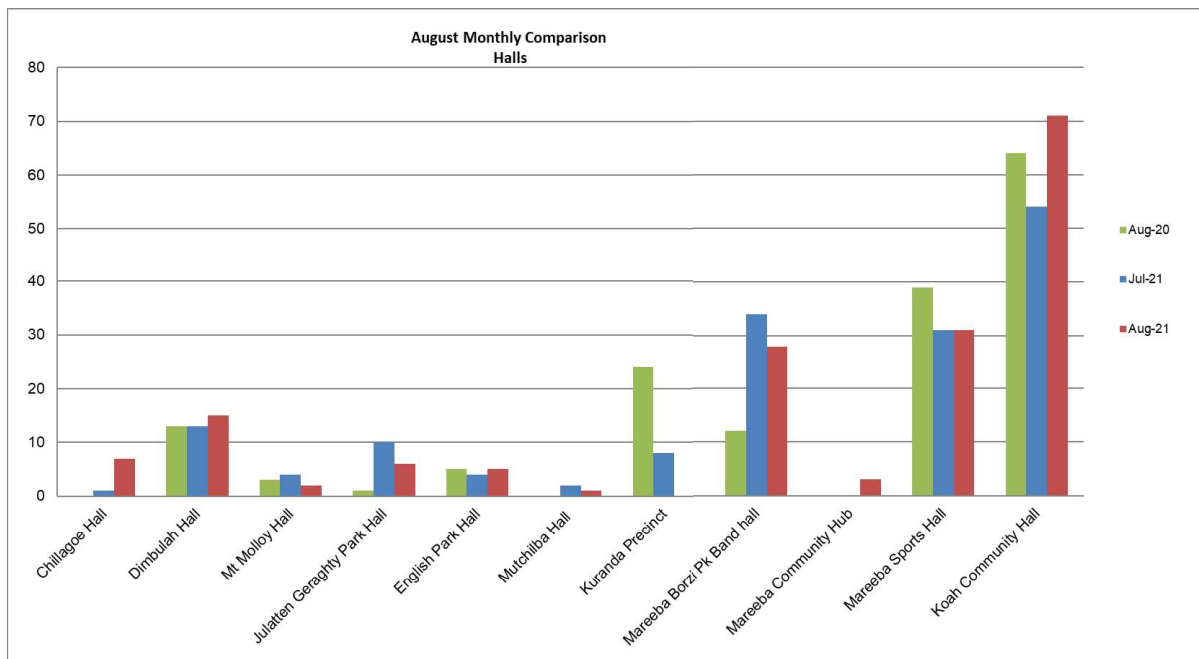
Program	Status
2021 DRFA	Mareeba Shire activated DRFA assistance measures linked to Tropical Cyclone Imogen and associated Low Pressure System that occurred 2- 12 January 2021. A consultant has been engaged to deliver the 2021 DRFA Program. Betterment projects to be identified and submitted in future funding rounds.
2019 DRFA	Gamboola Crossing remains the only site not yet completed. Commencement is scheduled for late September, with completion expected prior to December 2021.
2019 Betterment	Fossilbrook Crossing remains the only site not yet completed. Commencement is scheduled for late September, with completion expected prior to December 2021.

### **Facilities**

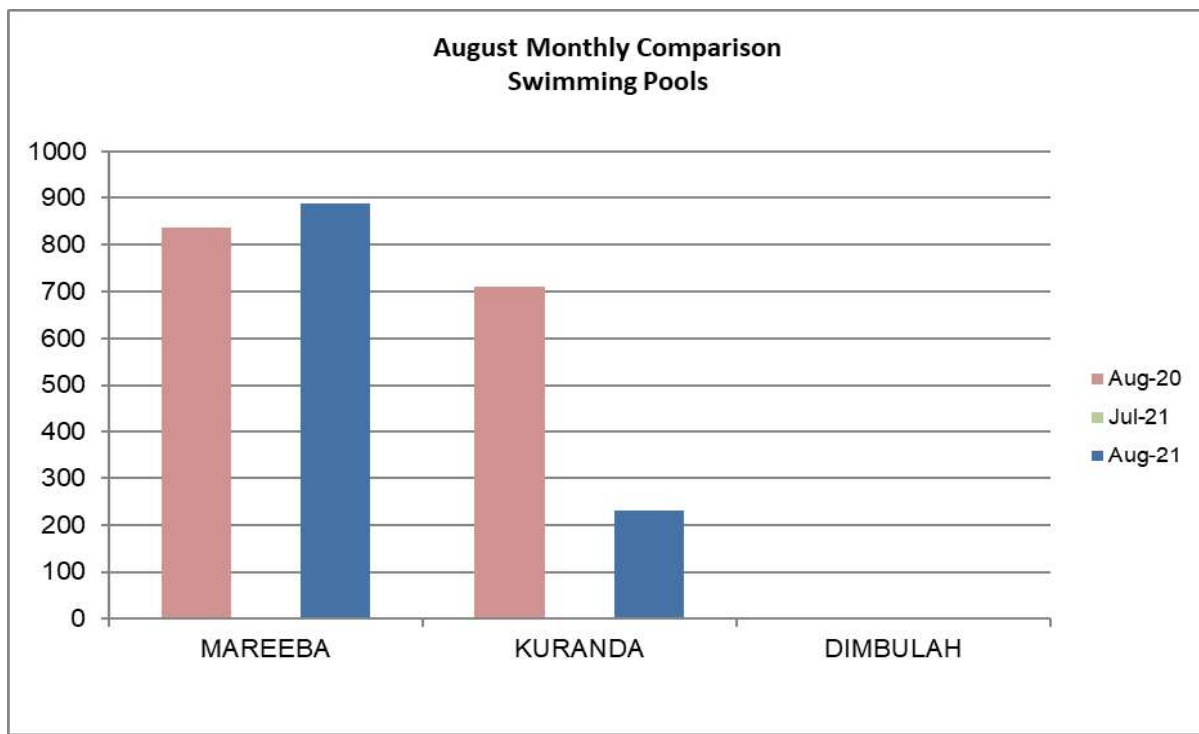
#### Community Halls:

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, August hall hires have remained steady across the portfolio with a strong increase shown in Koah Community Hall. As of 9 July, the "Check In Qld" App was made mandatory in Council's Facilities.



### Swimming Pools

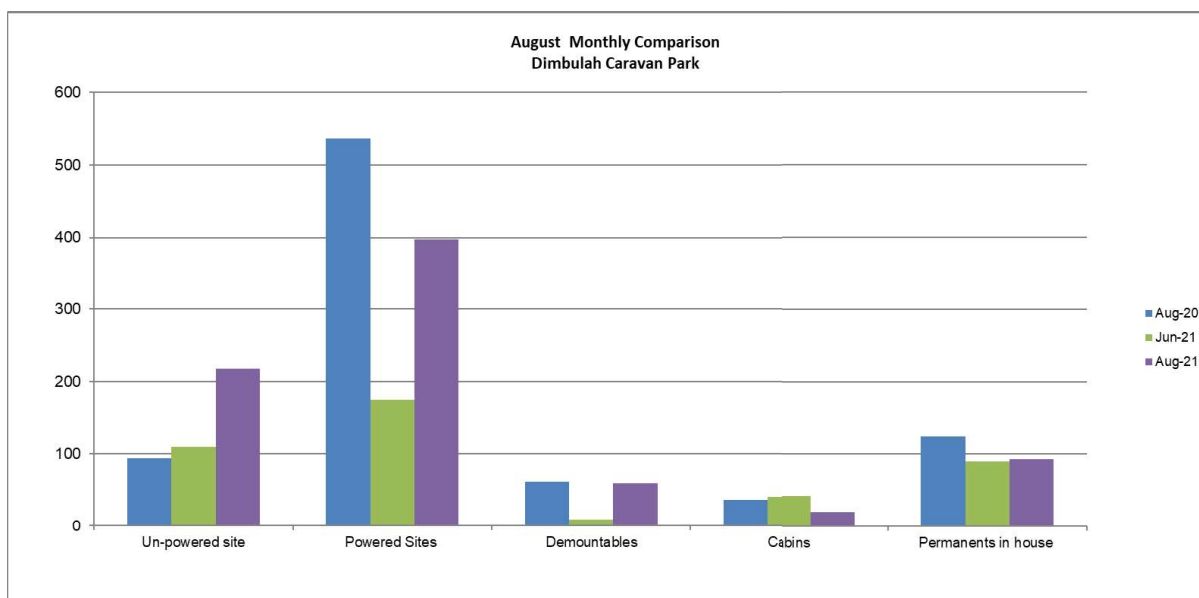
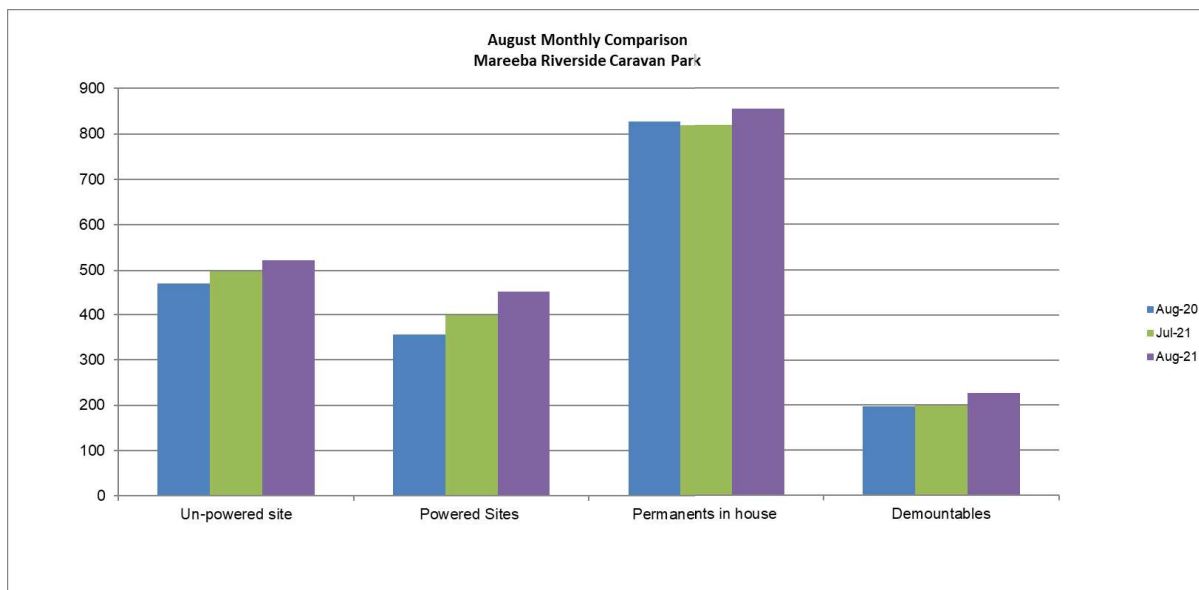


The Swimming Pools were closed for the annual scheduled winter period shutdown with maintenance being carried out during this period. Mareeba and Kuranda pools were opened in August, however the Dimbulah Swimming Pool remains closed through to 1 October as scheduled, which has enabled Council to complete the expansion joint renewal program.

A new Managing Lessee has been engaged to manage the facilities commencing from 1 September.

Caravan Parks:

Mareeba Riverside Caravan Park utilisation increased in August with projected further increases for September as the traditional 'Pickers' season continues.

Vandalism & Graffiti:

During August, eight (8) reports of vandalism/graffiti were recorded for Council facilities, with annual costs provided below;

Financial Year	Actuals	Comments
2015/16	\$ 2,134.00	• Kuranda Centenary Park toilets - Vandalism
2016/17	\$ 16,546.00	• Kuranda Visitors Information Centre - Graffiti
2017/18	\$ 23,948.00	• Kuranda Post Office - Vandalism
2018/19	\$ 14,851.00	• Mareeba Centenary Park Toilets - Vandalism x2
2019/20	\$ 14,211.18	• Mt Molloy Rifle Creek - Vandalism
2020/21	\$ 62,199.62	• Dimbulah Tennis Courts - Graffiti
2021/22	\$2,980.68	• Mareeba CWA Toilets - Vandalism



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

**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**

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

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

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

#### 9.4 INFRASTRUCTURE SERVICES, WORKS SECTION ACTIVITY REPORT - AUGUST 2021

**Date Prepared:** 3 September 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 August 2021.

#### RECOMMENDATION

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

#### BACKGROUND

##### Transport Infrastructure

##### Road Maintenance Activities

Unsealed road maintenance grading continued throughout the Shire in August with the following roads being graded.

Area	
Dimbulah/Western	Eastern
Mt Mulgrave Road	Andy Sheppard Drive
Mt Mulligan Road	Ivicevic Road
Thornbrough / Kingsbrough Road	Tyrconnell Road
Wolfram Road	Rains Road
Braund Road	Beh Road
	Fassio Road
	Hawkins Road
	Centinich Road
	Brooks Road
	Vallely Road
	Bilwon Road
	Shanty Creek Track

Other activities during the month included bitumen patching and isolated sealed pavement defect repairs in Mareeba, Kuranda and Koah areas, and unsealed road repairs in Julatten, Koah, Clohesy and Speewah areas. Other activities included collection of illegally dumped refuse and green waste in Mareeba and surrounds and the reinstatement of road shoulders on Fassio Road and Blacks Road in Mareeba.

Customer Requests

Since the beginning of 2021, the Works Group has received 1,337 Customer Requests (CRs) with 1,269 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	202	229
March 2021	195	193
April 2021	192	172
May 2021	167	177
June 2021	168	147
July 2021	144	154
August 2021	154	159
<b>Total</b>	<b>1,491</b>	<b>1,428</b>

At the time of reporting, the Works Group had 23 open (unresolved) requests.

Bridges and Major Culverts

Bridge maintenance and inspections were carried out on all bridges on Speewah Road in Speewah and Myola Road in Kuranda.

Both the concrete and bridge crews have been undertaking capital works in Mt Molloy for the majority of August. These works are scheduled to be completed by mid to late September at which time the crews will split and bridge maintenance and inspection works will resume whilst the concrete crew will commence girder fabrication.

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.

Works continued during August and at the time of reporting 9.5km of re-sheeting had been completed. At the current production rate, it is estimated that construction will be completed by 6 October 2021.





*Burke Development Road Re-sheet (9 August 2021)*

#### TMR Routine Maintenance Performance Contract (RMPC)

Medium formation grading continued on the Burke Developmental Road West of Wrotham Park.

Pipe and culvert inlet and outlet repairs and inspections have been completed between Mareeba and Mt Molloy on the Mulligan Highway and have commenced on the Mareeba - Dimbulah Road. On the Mossman - Mt Molloy Road signage repairs were undertaken.

#### Parks and Open Spaces

Mareeba Parks and Gardens staff finalised the new playground at Centenary Park in Mareeba that was opened for public use on Thursday, 26 August and the Cedric Davies Community Hub gardens and lawns that was officially opened on Friday, 27 August.

The Kuranda Parks and Gardens staff, in addition to their regular duties, have cleaned and pruned the full length of the pathway along the Kennedy Highway and Rob Veivers Drive.

#### Land Protection

**Parthenium Weed:** Inspections of the 12 active Parthenium Weed sites was completed in August. Four (4) of the sites are now confirmed as in-active and inspection will continue until all other sites are declared inactive.

Public awareness has been a major contributor in keeping the spread of Parthenium controlled within Mareeba Shire as are surveillance audits of properties seen as being at risk of infestation.

**Multi Species Weeds :** The on-going clean-up of Jatropha, Rubber Vine and Siam Weed continued on Emu Creek and Upper Walsh River area. Officers have revisited Irvinebank town, Gibbs, Emu, and Back Creeks as well as the old mining dam on Lahey's Creek. The affected landowners and local State Biosecurity Officers assisted with this program and the Department of Agriculture and Fisheries Weeds Research Centre in Charters Towers continue to investigate and trial new chemical and biological control options for dry tropics weeds.

**Rabbits:** Targeted areas in August included fruit blocks at Paddy's Green and Watsonville and Irvinebank. The K5 Haemorrhagic disease virus continues to be a very effective tool for rabbit control.

**Wild Dog Control:** This month Land Protection staff coordinated and implemented baiting programs on six (6) pastoral holdings totalling 305,000 hectares of range land grazing country.

#### **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

**9.7 INFRASTRUCTURE SERVICES, WATER AND WASTE OPERATIONS REPORT - AUGUST 2021****Date Prepared:** 16 August 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 August 2021.

**RECOMMENDATION**

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

**BACKGROUND****Water and Wastewater Treatment:**

All treatment plants are performing satisfactorily. Water demand was slightly higher across some schemes with Chillagoe's consumption recording an average consumption now that the new water reservoir is completed, filled and operational.

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)	8,403	835	150	469	128
Number of Connections	4,385	982	157	272	113
Average daily water consumption per connection (L)	1,916	850	955	1,724	1,133

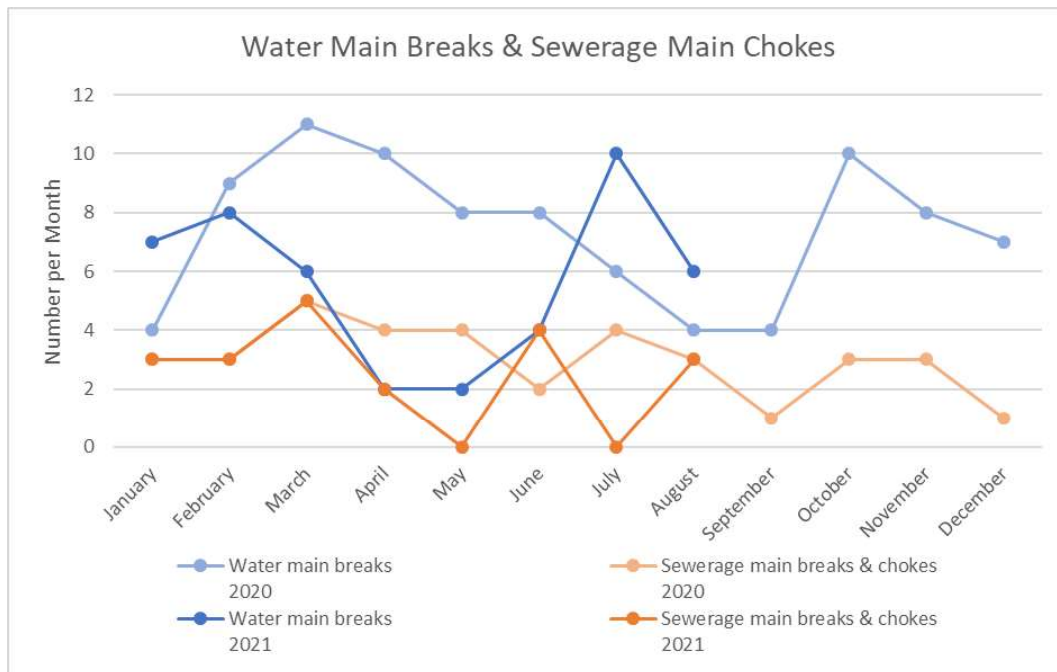
\* Mt Molloy is an untreated, non-potable water supply

Wastewater Treatment	Mareeba	Kuranda
Wastewater Plant average daily treatment (kL)	2,083	188
Number of Connections	3,424	346
Average daily inflow per connection (L)	608	543

**Water and Wastewater Reticulation:**

Council's water reticulation crew attended to six (6) water main breaks and small water leaks and three (3) 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:

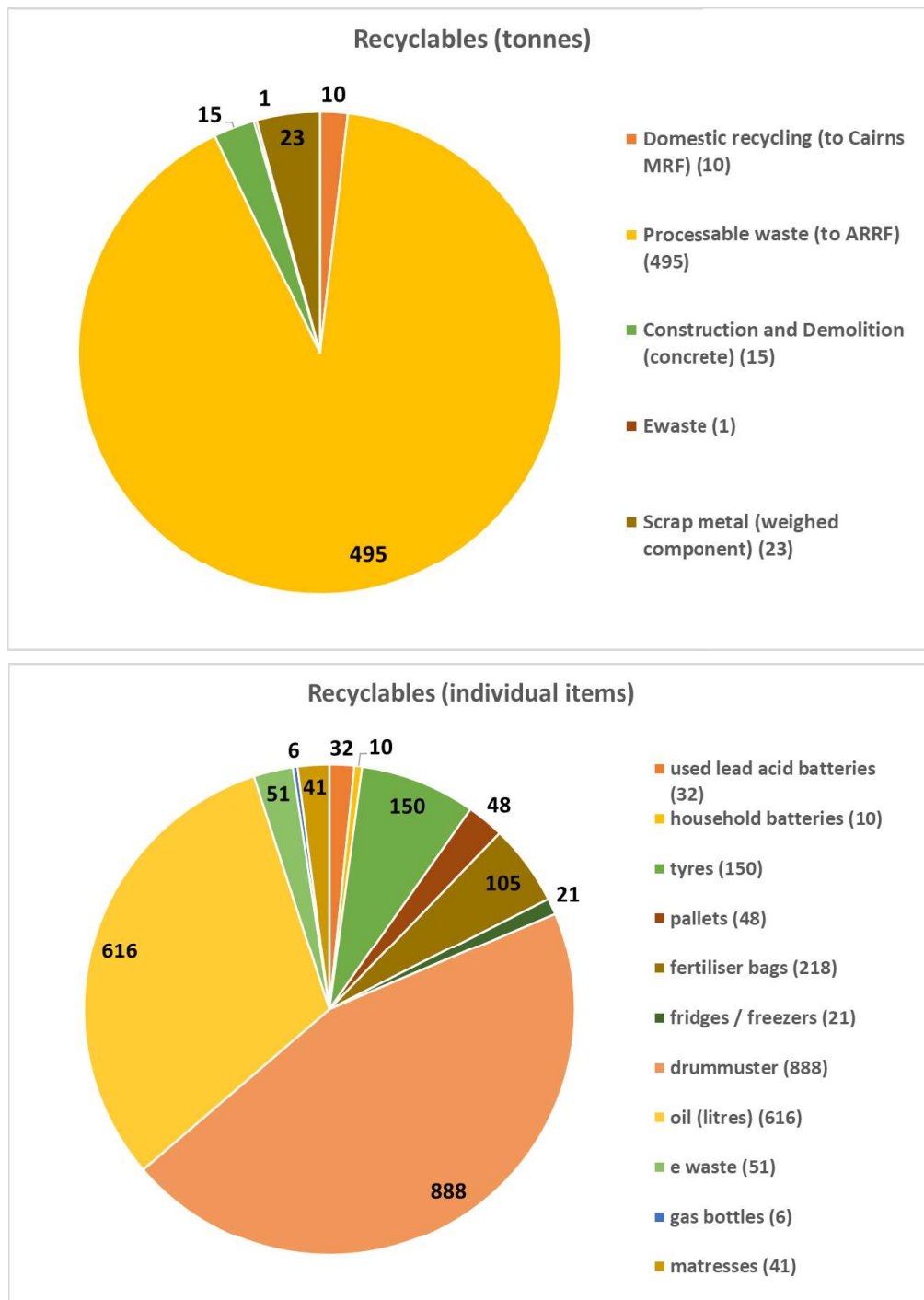
All transfer stations and Mareeba landfill are currently operational.

### 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.

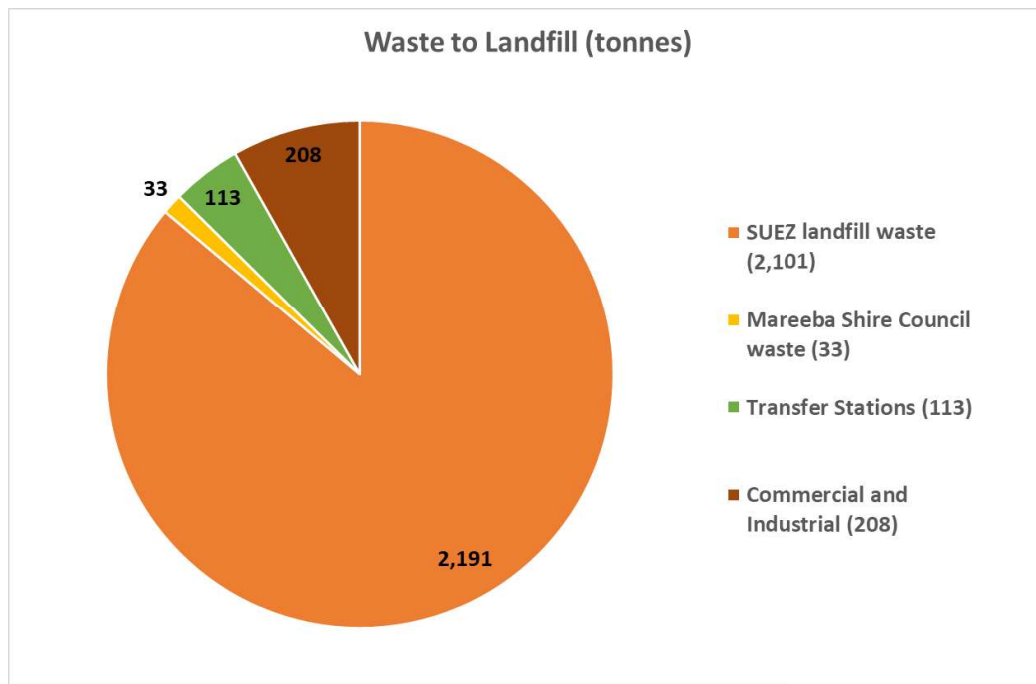






### Waste to Mareeba Landfill

Waste directed to Mareeba Landfill is primarily residual waste from the SUEZ Advanced Resource Recovery Facility (ARRF) plant in Cairns, with 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

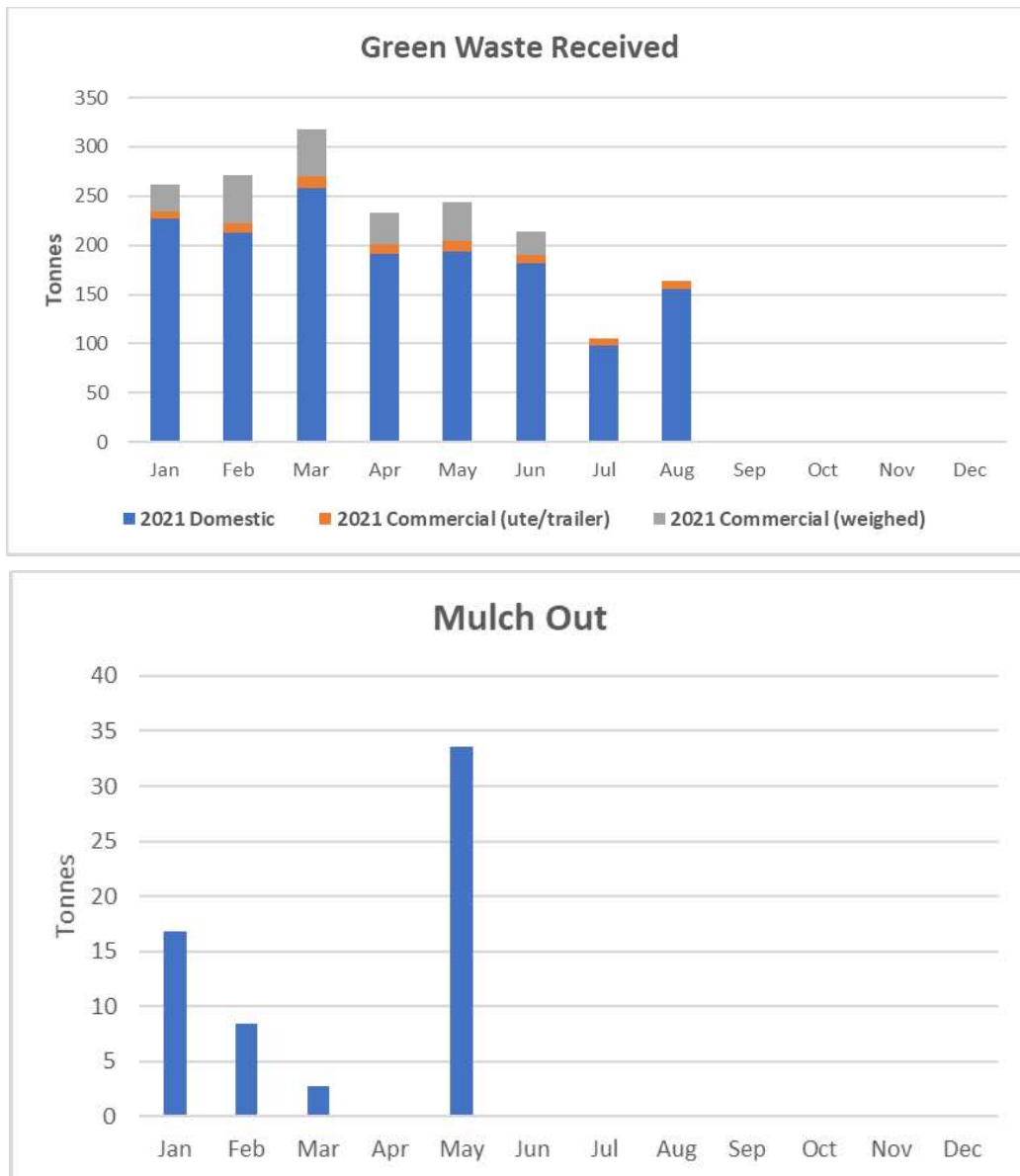
Council received three (73) illegally dumped tyres and one (1) load of illegally dumped green waste through Mareeba Waste Transfer Station during the month of August.



### Green Waste

Council received a total of 164 tonnes of green waste in the month of August. The tonnage increased due to the free green waste disposal days. No green waste was mulched and there were no mulch sales due to a fire in the mulch pile which occurred in July. Shark Recyclers removed the

burnt vegetation in August and will return to undertake mulching when there is a sufficient quantity of green waste in the stockpile.



## RISK IMPLICATIONS

### Environmental

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

The Environmental Authority amendment process is underway with the amalgamation and amendment by agreement processes now completed. The next stage is the major amendment process whereby significant improvements are proposed for licensed sites.

**LEGAL/COMPLIANCE/POLICY IMPLICATIONS**

Nil

**FINANCIAL AND RESOURCE IMPLICATIONS*****Capital***

Nil

***Operating***

Nil

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**Governance:** Sound decision making based on effective frameworks and clear strategic direction to achieve regulatory compliance and affordable levels of service delivered to the community.