

9 INFRASTRUCTURE SERVICES

9.1 INFRASTRUCTURE SERVICES, CAPITAL WORKS MONTHLY REPORT - SEPTEMBER 2021

Date Prepared: 16 September 2021

Author: Director Infrastructure Services

Attachments:

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

RECOMMENDATION

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

N/A

Infrastructure Services Capital Works Report Project Highlights - September 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

Following extension of the existing culverts, the shoulders on both sides of Springmount Road were built up with select fill, milled to a depth of 200mm and filled with Type 2.1 road base to cater for the increased width of bitumen seal. The project was bitumen sealed in late September and the line marking will take place in late October. This section of Springmount Road (Ch 7500 - Ch 9000) has now increased in trafficable sealed width from an average of 4.974 meters to 8 meters.



Shoulder build



Milling operation



Filling with road base



Bitumen seal

Infrastructure Services Capital Works Report Project Highlights - September 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 includes 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 progressed well throughout September with the causeway widening and rock check dams between Stanton Road and the Bower Road causeway being completed. The shoulder build and mill/fill for pavement widening will commence on the final section of Bower Road between the causeway and Tyrconnell Road in early October. It is estimated that the project will be completed by mid-October, weather permitting.



Widened causeway culvert wingwalls



Widened causeway deck prior to pouring



Causeway concrete finishing



Causeway shotcrete batter protection

Infrastructure Services Capital Works Report Project Highlights - September 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 (MMSS) to take advantage of the school holidays. The path and culverts were constructed on the western side of the pedestrian crossing on Fraser Road in May and staff returned in August to complete the project.

A checker plate drainage cover was placed over concrete nib walls to create the final link between the existing paved area at the Mt Molloy Cenotaph and the newly constructed path. Works were completed in late September 2021.



Upgraded concrete path at rear of houses on Fraser Road



Upgraded concrete path at rear of houses on Fraser Road



Culvert base and nib walls



Checked plate drainage cover

Infrastructure Services Capital Works Report Project Highlights - September 2021



Project Name: Hilltop Close Booster Station and Pipeline

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

The booster set was commissioned in September, along with electrical and telemetry commissioning.



Newly installed booster pump set and electrical switchboard which incorporates SCADA & Telemetry

Infrastructure Services Capital Works Report Project Highlights - September 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 has been constructed and being transported to site. Anticipated arrive date is late October to early November.

The site works commenced in September, which included earthworks, construction of concrete support plinths, approach ramps, electrical and instrument connectivity. Site fencing has also been extended to accommodate the new weighbridge.



Weighbridge construction works

Infrastructure Services Capital Works Report Project Highlights - September 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

The pipeline installation, flushing, pressure testing and connection to existing mains has been completed. Minor works were undertaken to complete the full pipeline installation works, such as final completion of air valve pit installations, surface reinstatement and cleared vegetation burning. The scour area from the bore testing was filled with crushed rock.

The shed installation is nearing completion, with flashing and guttering scheduled for installation by the beginning of October and the roof mount static ventilators and double gates for the generator bay programmed for installation the following week.

The aboveground pipework was installed, and fixing plates were mounted in place, ready for bore pump and pipework installation. The aboveground pipework will be completed following the installation of switchboard and bore pump. Connection and commissioning will be completed following completion of new power supply by Ergon which is programmed for January.

The final civil and landscaping works around the headworks is to be completed following the electrical installation.



Newly constructed bore headworks shed

Infrastructure Services Capital Works Report Project Highlights - September 2021



Project Name: Kuranda - Myola Road Reservoir Flow Meter Upgrade

Program: Water

Background

Background

An allocation in the Capital Works Program was been provided in the 2021/22 capital works program to upgrade the failed flow meters at the Myola Road Water Reservoir site in Kuranda. The flow meters are critical instrumentation that measure the volume of water flowing out the reservoirs and this information is communicated through Council's SCADA network to optimise delivery of water to users.

Scope of Works

The scope of works included upgrading and replacement of the flow meters, electrical connectivity and SCADA integration.

Progress Update

The failed flow meters have been removed and new flow meters installed. Access to the new flow meters has been improved as part of the scope of works to allow for adequate maintenance and calibration to ensure flow meter compliance.



Existing flow meter prior to removal



Newly installed flow meter



Newly installed access chamber with class D trafficable cover to be fitted

Infrastructure Services Capital Works Summary Report - September 2021

Project Description	Project Stage	Progress Comment
Program: 01 Rural and Urban Roads Reseal Program (Renewal)		
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.
Program: 02 Gravel Resheet		
2021/22 Gravel Resheet Program	Not Commenced	To be programmed.
Program: 03 Urban Streets		
R2R Reynolds Street, Mareeba - Replace Kerb and Channel	Design	Programmed for January/February 2022.
Program: 04 Rural Roads		
TIDS Euluma Creek Road, Julatten - Rehabilitate and widen Ch 5.565-6.343	Construction	Drainage completed late 2020. Works will re-commence 11 October 2021.
TIDS Bower Road, Arriga - Widen and Seal Ch 1.447-4.317	Construction	Bower Road causeway completed. Road widening of the final section between Tyrconnell Road and Bower Road causeway will commence 11 October 2021. Project will be completed early November, weather permitting.
TIDS Euluma Creek Road, Julatten - Rehabilitate and widen Ch 7.01-9.325	Construction	Programmed to start November 2021 with completion after 2022 wet season.
TIDS Euluma Creek Road, Julatten - Rehabilitate and widen Ch 9.350-10.130	Design	Programmed for commencement May 2022, to be delivered over 2 financial years.
TIDS Springmount Road, Arriga - Rehabilitation Ch 7.55-9.00	Construction	Works were sealed 29 September 2021. Road furniture installation and tidy up week of 4 October 2021. Line marking will be installed late October.
R2R Wolfram Road, Dimbulah Priority Sections Stage 2	Design	Programmed for construction February to April 2022.
R2R Palm Valley Road, Koah - Widen and Seal Ch 0.00-1.30	Design	Programmed for construction February to April 2022.
Borzi Road, Mareeba - Widen & Seal Ch 0.03-0.67	Design	Project in design phase. Currently programmed for construction July to October 2022.
DRFA Betterment Co-contribution	Construction	Fossilbrook Lynd River Causeway: Contractor scheduled to commence 13 October 2021.
Fallon Road, Kuranda - Rehabilitate Pavement Ch 0.874 - 0.948	Planning	Two (2) sites submitted to QRA for funding consideration. Awaiting advice from QRA.
Program: 05 Bridges		
Kanervo Road, Replace Timber Bridge over Davies Creek	Construction	Girder fabrication will commence early October pending design issue clarification with GHD.
Granite Creek, Mareeba - Replace Footbridge Deck	Not Commenced	Currently programmed for construction April 2022.
Palm Close, Mareeba - Replace Footbridge Boards	Not Commenced	Currently programmed for construction April 2022.
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.
Davies Creek Road Bridge Replacement	Design	Project is in design phase. Programmed for construction April/May 2022.
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	Project in design phase. Construction currently programmed for June / July 2022. Minor drain re-shaping and clearing will occur October / November 2021.
Program: 08 Parking		
Borzi Park, Mareeba - Carparking Masterplan	Not Commenced	Design programmed to start in early 2022.
Program: 09 Footpaths		
STIP - Mt Molloy Footpath - Replace 430m	Completed	Project completed September 2021.
2021/22 Footpath Renewal Program	Not Commenced	To be programmed.
Basalt Gully Stewart Street, Mareeba Footpath Renewal	Design	Once design received a tender will be called to have the work delivered by an external provider. It is intended to deliver this project prior to the end of December 2021.
Rankin Street, Mareeba - Footpath Renewal (Chewko-Byrnes)	Design	Once design received a tender will be called to have the work delivered by an external provider. It is intended to deliver this project prior to the end of December 2021.

Infrastructure Services Capital Works Summary Report - September 2021

Project Description	Project Stage	Progress Comment
Program: 10 Parks and Gardens		
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	Construction	Irrigation installed. Project to be completed mid to late October pending availability of semi mature plants and weather permitting.
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	Ordered signs expected to be delivered first week of November.
Dimbulah Parks Irrigation Upgrade	Procurement	Project has been scoped and materials ordered for irrigation upgrade at Town Hall Memorial Park.
Chillagoe Parks Irrigation Upgrade	Procurement	Project has been scoped and materials ordered for irrigation upgrade at Ten Acre Park.
Program: 11 Water		
Warril Drive New Water Main and Booster	Construction	Project on schedule to be completed and commissioned by early October.
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.
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.
LER / LRCIP2 Chillagoe Bore & Water Main Construction	Construction	New bore pump and equipment shed constructed and new bore pump to be installed during October prior to commissioning of generator. Ergon to advise 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 generally completed with the exception of an under bore section and another 150 metres into Shane Court and 3 service connections which will be done during October.
W4Q4 Barang Street, Kuranda - Water Main Upgrade	Procurement	Project pre-start held on site 1 October with actual works to commence the week of 11 October and expected to take 3 to 4 months.
Mareeba Transfer Holding Lagoon New Spare Pump	Procurement	Pump is on order with a long lead time for delivery anticipated.
W4Q4 Mareeba AC & Defunct Pipe Replacement 2.5km	Procurement	Major section of works which is north of Granite Creek out to tender with tender closing date of 19 October. Smaller section of works from Debel Close along McGrath Road to be completed by Council day labour to commence mid October.
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 have been completed during September. Chillagoe saw three new valves installed to the reticulation network. 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.

Infrastructure Services Capital Works Summary Report - September 2021

Project Description	Project Stage	Progress Comment
Mareeba Water Treatment Plant - SML Reservoir Roof Replacement	Procurement	Project scope being re-assessed. Contractor looking at reservoir early October to assess viability to access the reservoir to undertake internal roof restoration works in lieu of full replacement. Following site inspection, it will be determined if restoration works can be done or new roofing is required.
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	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 with further works scheduled for week beginning 11 October.
Program: 12 Wastewater		
Minor Sewerage Station H2S Protection	Construction	Works are progressing and should be completed by early October 2021.
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 completed September 2021.
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, with two sewerage pump stations having the communication networks upgraded.
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	Construction	Project awarded and expected to commence October / November 2021.
2021/22 Manhole Rehabilitation and Replacement & Program	Completed	Works substantially completed except minor items for close-out.
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	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.
2021/22 Mareeba Minor Pump Station H2S Protect/Refurb	Procurement	Report to be tabled at 20 October 2021 Ordinary Council meeting to award tender.
Mareeba Gravity Sewer Main installation from Cedric Davies to Lifestyle Sewerage Pump Station	Procurement	Project works anticipated for commencement late October / early November.
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.
Kuranda Waste Transfer Station Weighbridge & Gatehouse	Construction	Civil work underway with concrete plinths poured with a 28 day curing period before new weighbridge can be installed. Other site works include conduit laying and set out for site hut prior to installation.
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.
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.
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		
GPS Vehicle Management System	Planning	Potential system and fleet to be fitted under assessment.
Replace Unit 625 Mitsubishi Truck	Completed	Project complete, vehicle in service.

Infrastructure Services Capital Works Summary Report - September 2021

Project Description	Project Stage	Progress Comment
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	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 is November/December 2021.
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 delivery 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	Completed	Project complete, mower delivered 13 September 2021.
Fleet Replacement #4055 - Kubota 72" Front Deck	Procurement	Purchase Order raised 21 July 2021; anticipated delivery is December 2021.
Fleet Replacement #4053 - Husqvarna Zero Turn	Procurement	Quotes received and under evaluation. Order to be placed by end of October.
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	Purchase Order raised 4 August 2021; anticipated delivery is November 2021.
Program: 16 Depots and Council Offices		
Kowa Street, MSC Depot - Air conditioning Replacement	Procurement	Quotations requested, closing end of October 2021.
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 being assessed with consideration to site constraints. Options to be priced.
Rankin Street, MSC Office - Town Planning Foyer Reconfiguration	Design	Concepts completed and design consultant working to finalise Tender ready plans and documentation. Anticipate calling tenders end of October 2021.
Kowa Street, MSC Depot - Emergency Generator	Planning	Procurement anticipated mid October 2021, with delivery date to be confirmed.
Program: 17 Community Buildings		
Koah Tennis Court - Remove/replace the unstable timber light poles	Not Commenced	On hold - Seed funding for potential development by Koah Community Group.
Dimbulah / Mareeba / Kuranda Pools Chlorine Dosing Improvements	Planning	Works to be progressed first half of 2022.
Mareeba Leagues Club Grandstand Refurbishment	Procurement	Pricing received not acceptable. New quotes will be called.
Geraghty Park Hall, Julatten - Toilet Access Upgrade	Construction	New concrete footpath has been laid. All minor repairs works have been carried out in the toilets. New flooring to be laid first week of October.
Mareeba PCYC Shire Hall Part Roof Replacement	Design	Heritage approvals being sought to replace a number of roof elements (Like for Like). Scope of works ready to release for quotation subject to heritage approval.
2021/22 Shire-wide Ablution Refurbishment Program	Construction	Refurbishment of Chillagoe Ten Acre Park toilets is now complete. Still awaiting quotes for new flooring at Dimbulah. Mareeba Heritage Toilets works to commence on 18 October.
Kuranda SES Facilities Upgrade	Construction	Works progressing well, approvals received for locating the sand box from QAS.
Dimbulah Pool Expansion Joint Repair	Completed	Works completed September 2021.
Program: 18 Non-Infrastructure Items		
Kuranda New Cemetery	Planning	Draft layout options received from consultant are currently being reviewed.
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.

Infrastructure Services Capital Works Summary Report - September 2021

Project Description	Project Stage	Progress Comment
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.
Replace GPS Base/Rover and Controller	Procurement	New equipment ordered.
Program: 20 KIAC		
KIAC - New Wayfinding Signage	Construction	External advice sought on quality of product and options for rectification.

9.4 INFRASTRUCTURE SERVICES, TECHNICAL SERVICES OPERATIONS REPORT - SEPTEMBER 2021

Date Prepared: 16 September 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 September 2021.

RECOMMENDATION

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

BACKGROUND

Technical Services

Design, quality and investigations:

Investigation activities undertaken in September included:

Activity	Current Requests	Closed Requests
Road Infrastructure Review	80	80
Drainage Investigations	5	1
NHVR Permit Applications	1	8
Aerodrome Investigations	1	1
Traffic Count Surveys	0	7
Parks Investigations	3	4
Dial Before You Dig Requests	0	126

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 September:

Supplier	No. of Tests
Internal	152
External	119

Asset Inspections:

Scheduled inspections of Council's transport infrastructure assets have been undertaken during the month of September. 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 October will continue to focus on the culvert crossings of roads 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:

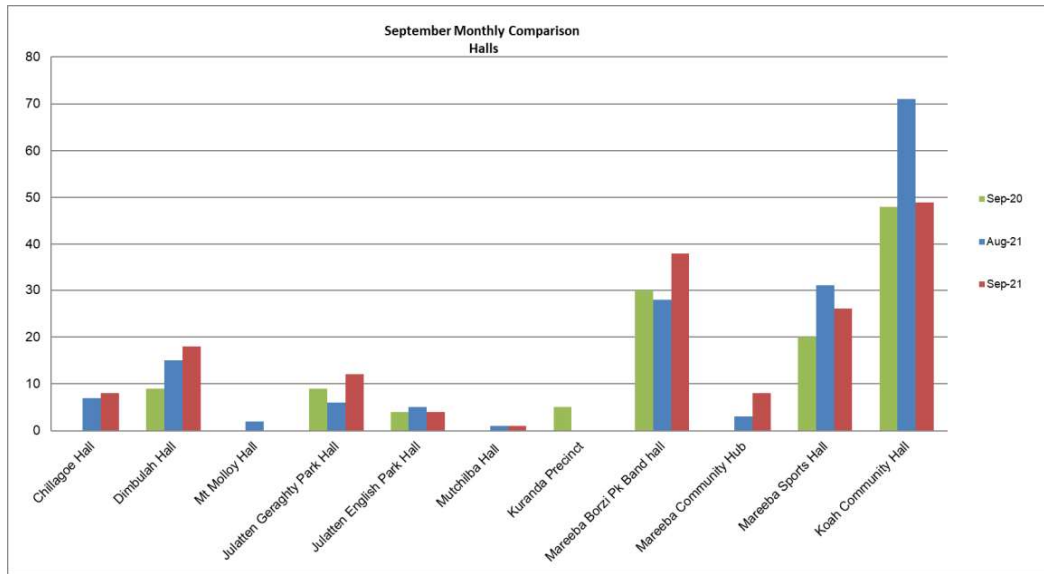
Program	Status
2021 DRFA Program General	Mareeba Shire activated DRFA assistance measures linked to Tropical Cyclone Imogen and associated Low Pressure System that occurred 2- 12 January 2021. A consultant has been engaged to deliver the 2021 DRFA Program. Betterment projects to be identified and submitted in future funding rounds.
2021 DRFA REPA Program	High priority sites to be presented to Council for endorsement of award at 20 October 2021 Council Meeting. Remaining program to be Tendered mid-October 2021 with potential award December 2021 Council Meeting.
2019 DRFA	Gamboola Crossing remains the only site not yet completed. Commencement is scheduled for late October, with completion expected prior to December 2021, subject to monitoring of river height levels.
2019 Betterment	Fossilbrook Crossing remains the only site not yet completed. Commencement is scheduled for mid-October, 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, September hall hires remained steady across the portfolio. As of 9 July, the "Check In Qld" App was made mandatory in Council's Facilities. Mareeba Cedric Davies Community Hub is gaining interest for hiring.

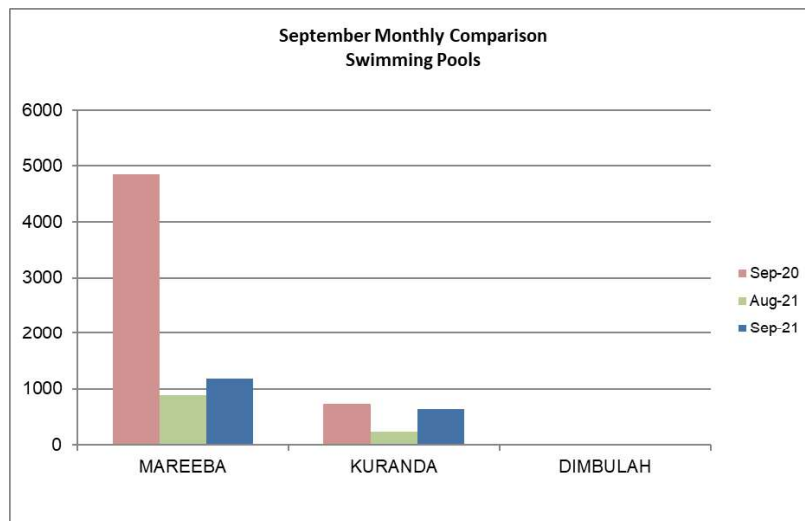


Swimming Pools

Dimbulah Swimming Pool remains closed through September, reopening 1 October as scheduled, which has enabled Council to complete the expansion joint renewal works.

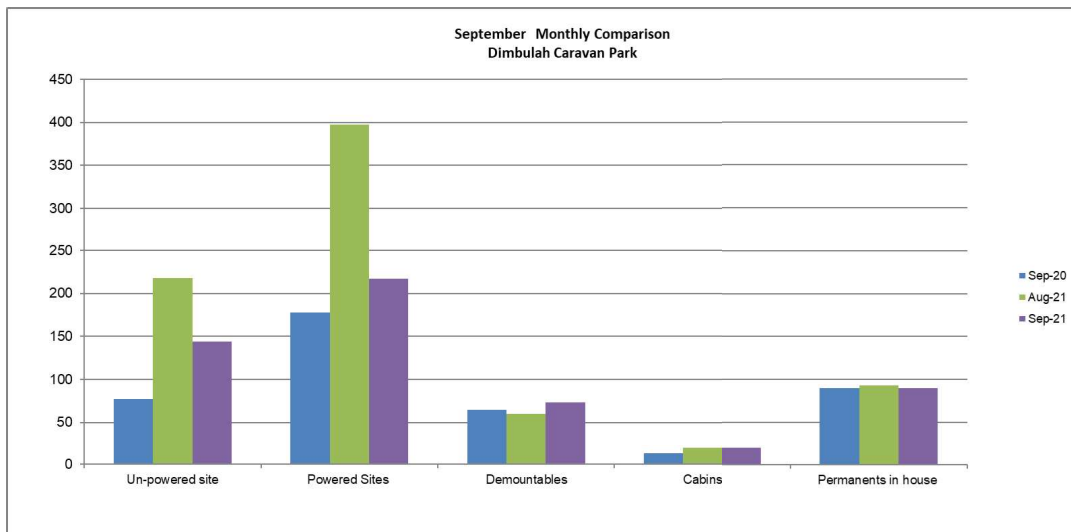
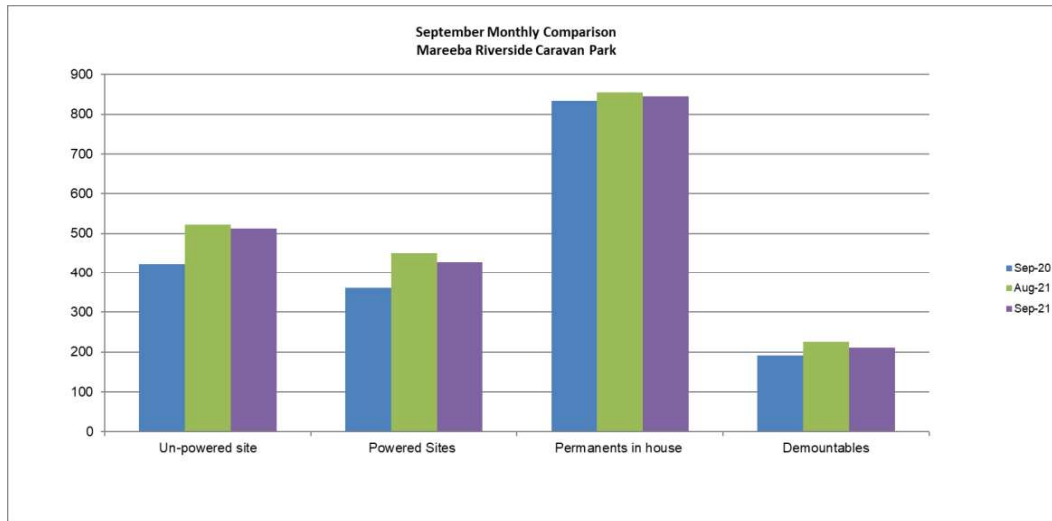
A new Managing Lessee has been engaged to manage the facilities which commenced 1 September.

Figures for the month of September this year compared to the same time last year are down as school swimming has not commenced. The schools will commence in school swimming lessons in October.



Caravan Parks:

Mareeba Riverside Caravan Park and Dimbulah Caravan Park utilisation has slightly decreased which is assumed due to less transient workers in town and nomads having moved on.



Vandalism & Graffiti:

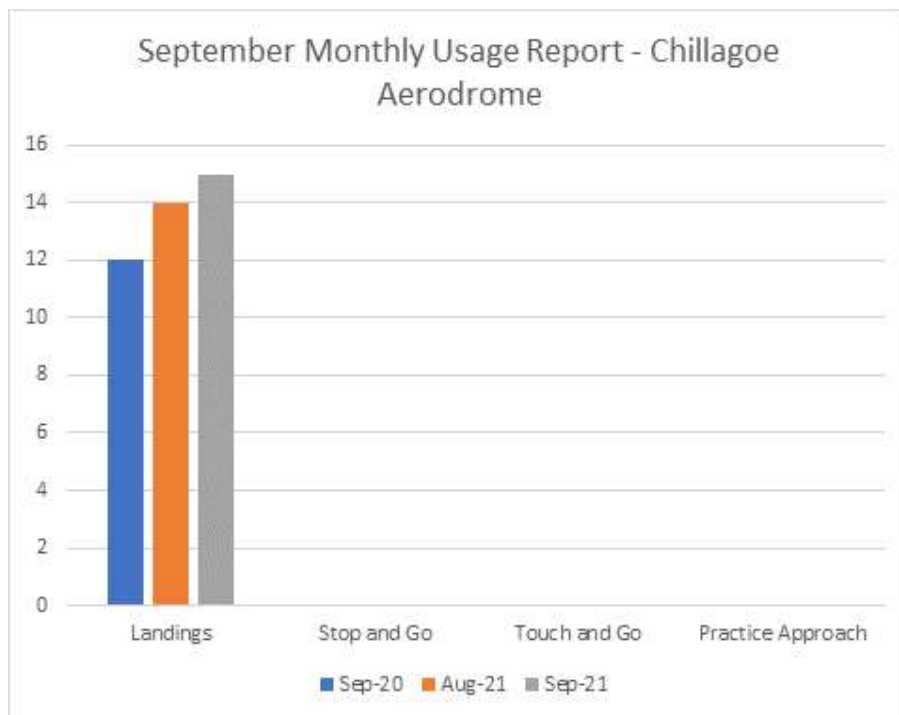
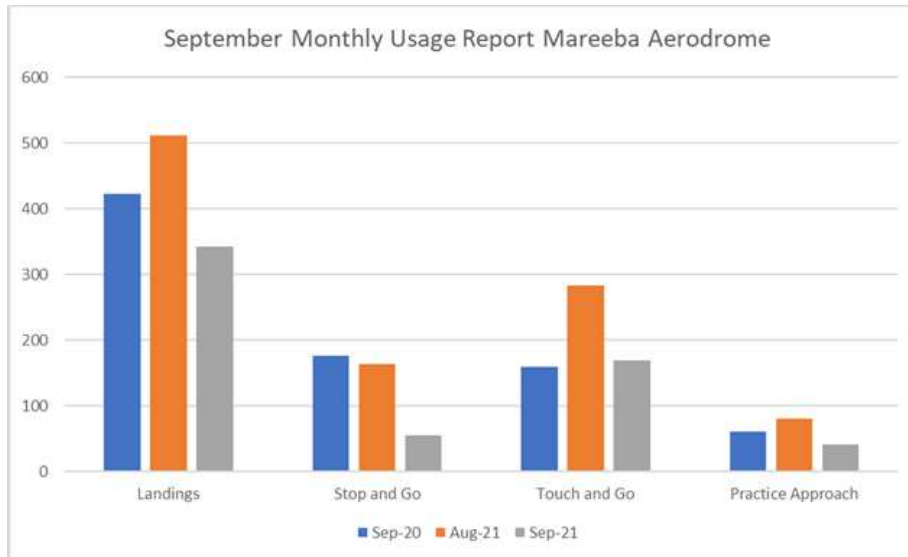
During September four, (4) reports of vandalism/graffiti were recorded for Council facilities, with annual costs provided below;

Financial Year	Actuals	Comments
2015/16	\$ 2,134.00	• Mareeba Rankin Street - vandalism
2016/17	\$ 16,546.00	• Mareeba Arnold Park toilets - graffiti
2017/18	\$ 23,948.00	• Mareeba CWA Toilets - vandalism
2018/19	\$ 14,851.00	• Mareeba Gymnastics Hall - vandalism
2019/20	\$ 14,211.18	
2020/21	\$ 62,199.62	
2021/22	\$8,143.51	

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 September, generally owing to the weather conditions. Chillagoe Aerodrome has only minor activity recorded for the period.



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.

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

Date Prepared: 16 September 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 September 2021.

RECOMMENDATION

That Council receives the Infrastructure Services, Water and Waste Operations Report for September 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 a 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)	8,394	975	420	478	112
Number of Connections	4,385	982	157	272	113
Average daily water consumption per connection (L)	1,914	993	2,675	1,757	991

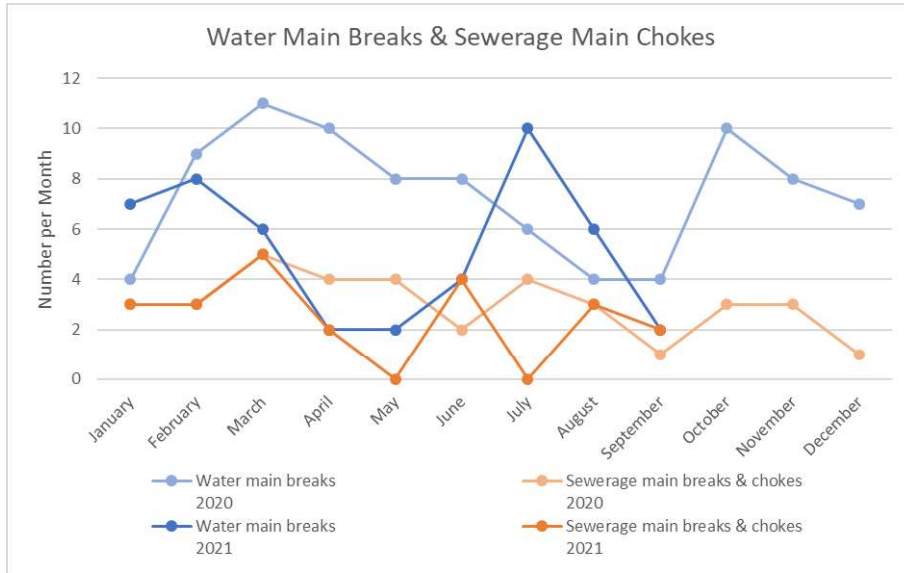
* Mt Molloy is an untreated, non-potable water supply

Wastewater Treatment	Mareeba	Kuranda
Wastewater Plant average daily treatment (kL)	2,028	252
Number of Connections	3,424	346
Average daily inflow per connection (L)	592	728

Water and Wastewater Reticulation:

Council's water reticulation crew attended to two (2) water main breaks and small water leaks and two (2) sewerage 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:



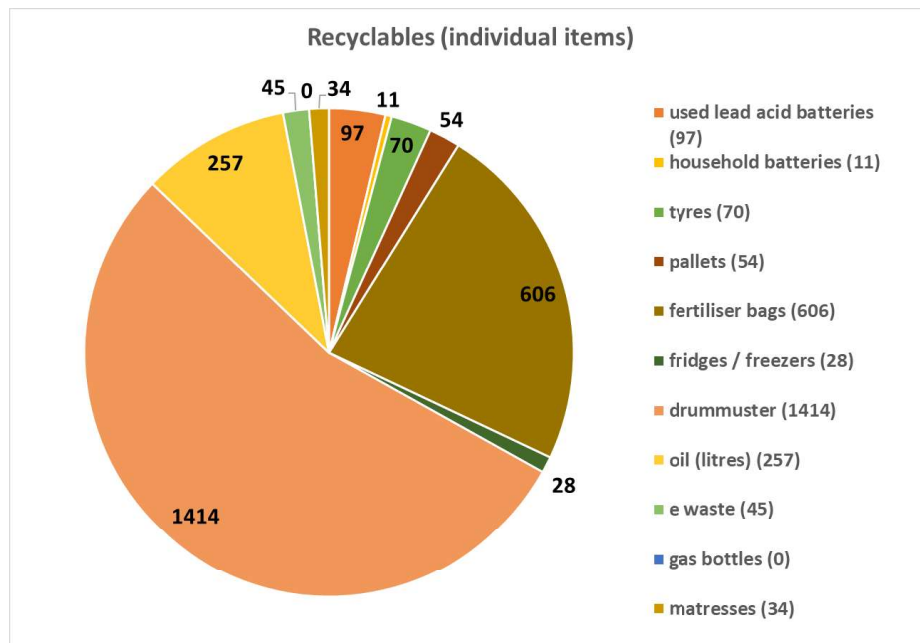
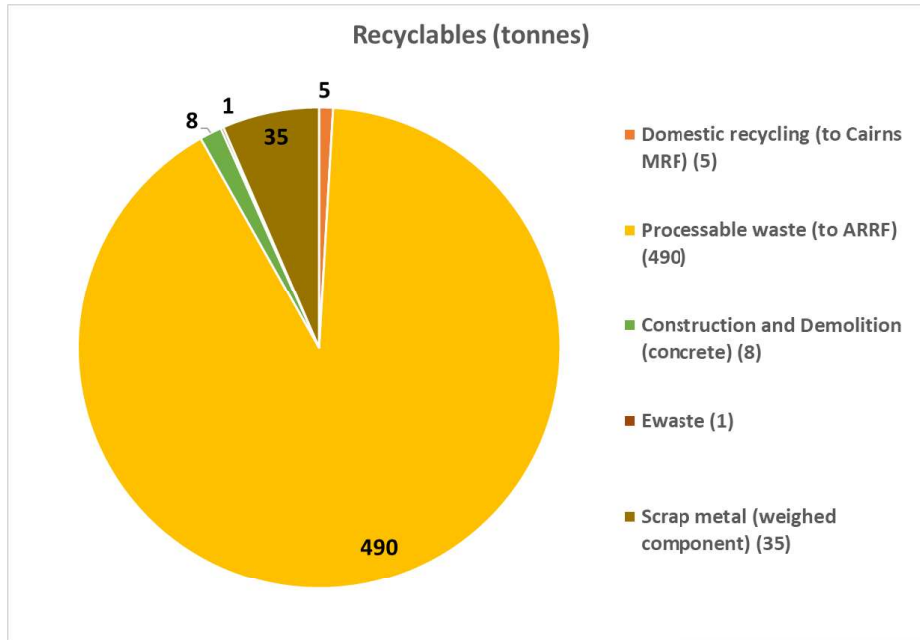
Waste Operations:

All transfer stations and Mareeba landfill are currently operational.

Recycling

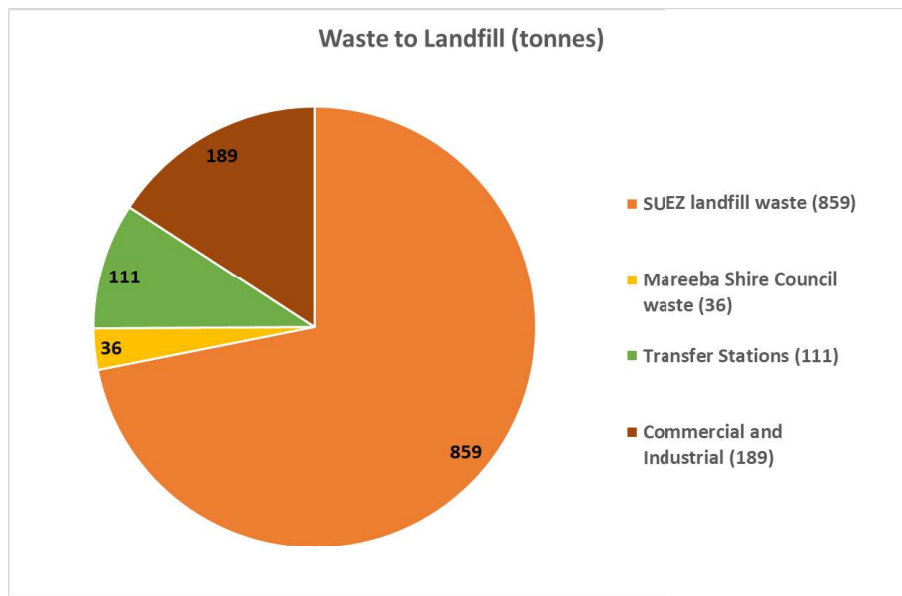
Waste material collected at each of the waste transfer stations are either deposited directly to the Mareeba landfill, recycled or transported to the SUEZ Advanced Resource Recovery Facility (ARRF) in Cairns for processing.





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. SUEZ has now ceased delivering waste to Mareeba Landfill due to site constraints.



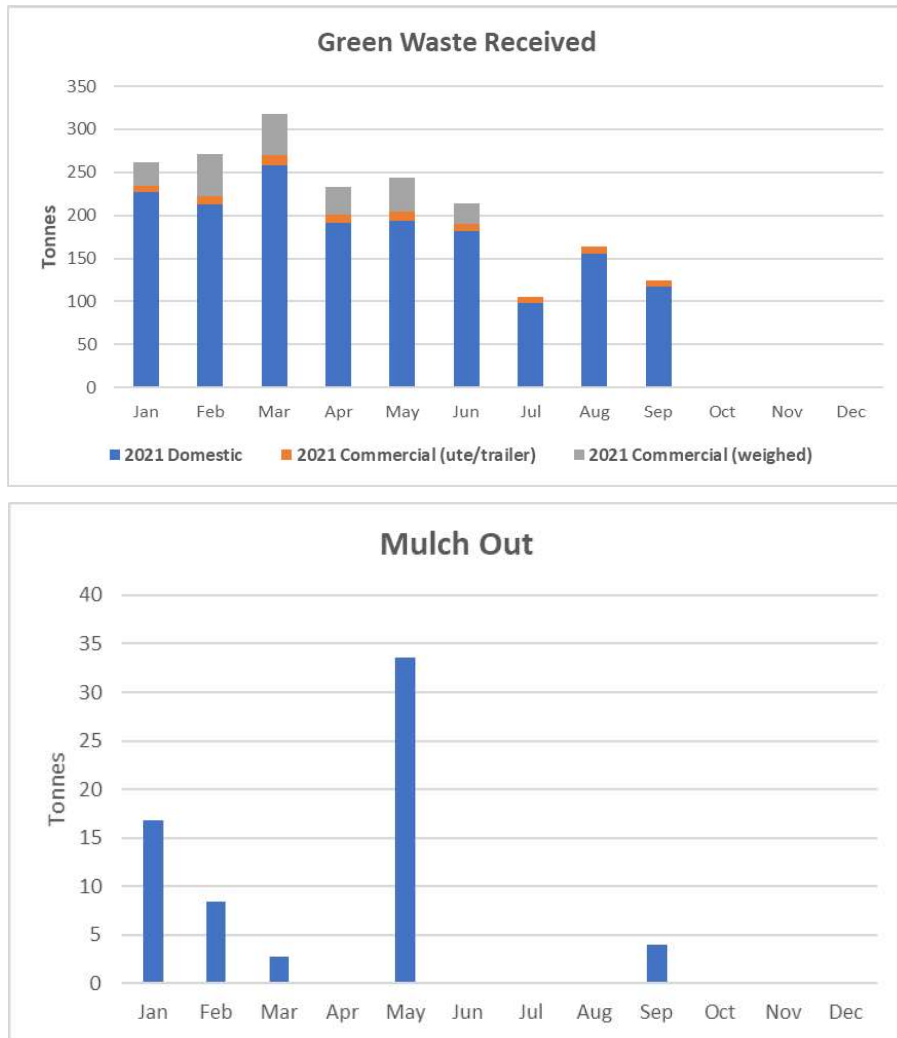
Illegally Dumped Waste

Council received three (3) illegally dumped tyres and one (1) load of illegally dumped waste through Mareeba Waste Transfer Station during the month of September.



Green Waste

Council received a total of 124 tonnes of green waste in the month of September. Green waste was mulched and there were 10 mulch sales.



FNQROC Regional Waste Strategic Framework

A request for tender drafted and approved during meeting on 30 September. Council has signed Terms of Reference.

RISK IMPLICATIONS

Environmental

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

LEGAL/COMPLIANCE/POLICY IMPLICATIONS

Nil

FINANCIAL AND RESOURCE IMPLICATIONS

Capital

Nil

Operating

Nil

LINK TO CORPORATE PLAN

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

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

9.9 INFRASTRUCTURE SERVICES, WORKS SECTION ACTIVITY REPORT - SEPTEMBER 2021

Date Prepared: 11 October 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 September 2021.

RECOMMENDATION

That Council receives the Infrastructure Services, Works Progress Report for the month of September 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
Metzger Road	Kanervo Road
Price Creek Road	Koah Road
Lowe Road	Copland Road
Boonmoo Road	Fantin Road
Carbonate Creek Road	Clohesy River Road
Wolfram Road	Speewah Road
Faichney Road	Hoey Road
Bruce Weir Road	Harper Road
Lemonside Road	Gadaga Road
	Stoney Creek Road
	Little Street
	McKenzie Street
	Boyles Road
	Railway Street
	Kauri Street
	River Street
	Big Sands Lane
	Blythe Lane
	Crothers Road
	McCorry Road

Other activities during the month included bitumen patching and isolated sealed pavement defect repairs in Mareeba, Kuranda and Julatten areas, graffiti removal from signage in the Kuranda area and replacement of old signage in the Mareeba area. Vegetation management undertaken on rural roads in the Julatten, Mount Molloy and Kuranda areas.

Customer Requests

Since the beginning of 2021, the Works Group has received 1,648 Customer Requests (CRs) with 1,621 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
Total	1,648	1,621

At the time of reporting, the Works Group had 81 open (unresolved) requests.

Bridges and Major Culverts

Bridge maintenance and inspections were carried out on all bridges on Pinnacle Road in Julatten, Davies Creek Road, Fichera Road, Kenneally Road and Seary Road Mareeba.

The concrete and bridge crews completed capital works in Mt Molloy in September. The crews will now split and bridge maintenance and inspection works will resume whilst the concrete crew will commence girder fabrication for the Davies Creek Bridge on Kanervo Road.

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 September and at the time of reporting, the supply and delivery component of the works had been completed with 23,940 m³ of Type 4.3 running surface carted to site. 17km of re-sheeting had been completed from Ch 451.95 to Ch 468.94. This section was shortened by

2.96km as the quantity of Type 4.3 running surface had reached the tendered amount. This was due to surface irregularities in the formation and the need to provide 300mm of cover over existing culverts within the section.

The final 2.6km of re-sheeting from Ch 440.4 to Ch 443 will be completed by mid-October followed by the re-installation of road furniture.



Table drain clearing and installation



Triple road train cart trucks



Completed running surface Ch 453



Completed running surface Ch 454

TMR Routine Maintenance Performance Contract (RMPC)

Medium formation grading was completed on the entire unsealed sections of the Herberton - Petford Road.

Heavy shoulder grading was completed on sections of the Burke Developmental Road (BDR) at the approaches to Eureka Creek, 9km west of Dimbulah.

A medium formation grade will commence from 18 October 2021 on the unsealed sections of the BDR between Almaden and Chillagoe.

Parks and Open Spaces

The Mareeba, Kuranda and Mt Molloy Parks and Gardens staff carried out regular programmed duties for the month of September. New pressure pumps were fitted to the gurney crew truck causing minor disruptions to the street cleaning regime. During the time the truck was out of service, spot checks were carried out and areas requiring cleaning were treated manually with hoses and mops.

In Kuranda, the Skyrail gardens were refurbished with new plantings and upgraded irrigation.

Land Protection

Parthenium Weed: Monthly inspections carried out on 12 sites. All landholders are complying with their bio security obligation. Council officers continue to monitor 11 of the sites every three (3) weeks, with one (1) of the sites now being inspected every two (2) weeks due to the landholder watering their orchid on a regular basis which in turn makes the parthenium grow and germinate at a faster rate, having the weed germinate faster helps to reduce the weed seed bed in the ground.

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.

Irvinebank: Officers completed a follow up treatment of Jatropha curcas (physic nut) around the town area.

Pond Apple: Land Protection staff carried out inspections in the Kuranda area and report that minimal young plants were located and destroyed with no mature seeding plants detected.

Feral Pigs: Several landholders have been seeking advice regarding feral pig problems where baiting is not a suitable solution due to location. The landholders have been instructed on trapping methods and exclusion fencing.

Wild dogs: Baiting has been carried out on three (3) properties on the upper reaches of the Walsh and Lynd River catchments totalling 24,146ha of land. Several landholders were also advised on trapping methods and shooting options.

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