

9.3 INFRASTRUCTURE SERVICES, TECHNICAL SERVICES OPERATIONS REPORT - SEPTEMBER 2022

Date Prepared: 27 September 2022

Author: Manager Technical Services

Attachments: Nil

EXECUTIVE SUMMARY

The purpose of this report is to outline Council's Fleet, Design, Soils Lab, Survey, Quality, GIS, Project Management, Facilities and Investigation Services activities undertaken by Infrastructure Services during the month of September 2022.

RECOMMENDATION

That Council receives the Infrastructure Services, Technical Services Operations Report for September 2022.

BACKGROUND

Technical Services

Design, quality and investigations:

Investigation activities undertaken in September included:

Activity	Current Requests	Closed Requests
Road Infrastructure Review	39	21
Drainage Investigations	6	2
NHVR Permit Applications	0	8
Aerodrome Investigations	6	1
Traffic Count Surveys	0	15
Parks Investigations	5	3
Miscellaneous <i>eg</i> Planning; Local Laws	7	35
Before You Dig Assists Requests	0	166

Soil Laboratory:

Council's Soil Laboratory provides NATA-accredited soil and material testing for internal and external services.

Supplier	No. of Tests
Internal	16
External	208

Asset Inspections:

Work was primarily focused towards improving data for the water, sewerage, roads, underground stormwater and kerbs asset data sets.

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	Prestige Gardens Stage 1-6	Under construction
Mareeba	Emerald End Road & Country Road	Under construction
Mareeba	Amaroo Stage 12	On-maintenance
Mareeba	7 Haren Street	On-maintenance
Koah	123 Fantin Road (Two Chain Road)	On-maintenance
Mareeba	Kenneally Estate Stage 4	On-maintenance
Mareeba	The Edge Stage 3	On-maintenance
Mareeba	Amaroo Stage 11	On-maintenance
Mareeba	Mareeba Roadhouse and Accommodation Park, Williams Close	On-maintenance - Monitoring
Kuranda	112 Barnwell Road widening	Monitoring

Disaster Recovery Funding Arrangements (DRFA)

The DRFA is jointly funded by the Commonwealth and Queensland governments to help alleviate the costs of relief and recovery activities undertaken in disaster-affected communities by delivering recovery activities to return affected eligible assets back to pre-event condition. The status of declared disaster events currently being managed are provided below:

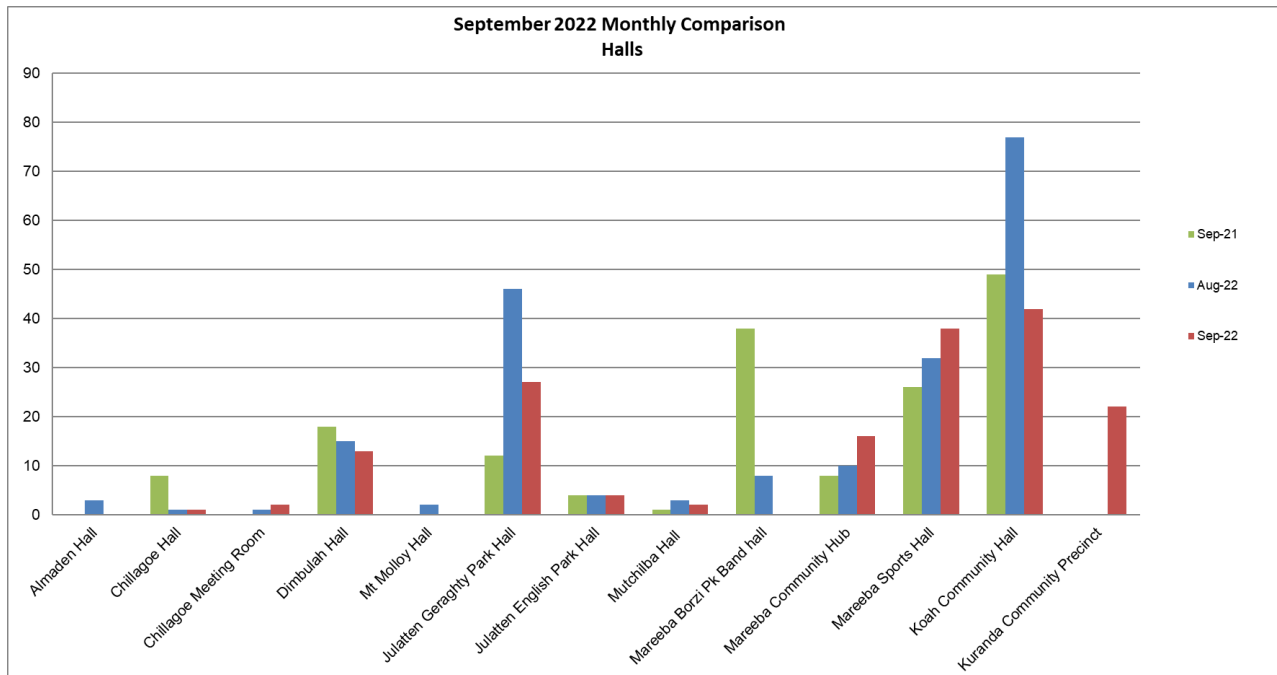
Program	Status
2021 DRFA Program General	Mareeba Shire activated DRFA assistance measures linked to Tropical Cyclone Imogen and associated low pressure system that occurred 2–12 January 2021. A consultant has been engaged to assist with delivery of the 2021 DRFA Program and delivery of the program is well progressed with half the contracts having reached practical completion.
2021 DRFA REPA Program	Council at its Ordinary Meeting, 15 December 2021, endorsed award of the REPA Contracts on condition of endorsement by QRA. Works have commenced on all restoration packages with works on track for completion prior to end of calendar year.
2022 DRFA	Mareeba Shire activated DRFA assistance measures linked Far North Queensland Low Pressure Trough, that occurred 1 – 7 February 2022. Council have commenced assessment of damage, emergency repairs and immediate restoration of impacted roads throughout the Shire. A consultant has been engaged to assist with delivery of the 2022 DRFA Program.
2022 Betterment	Officers are currently working on development of the proposed Betterment Program for submission to QRA for consideration prior to end of calendar year.

Facilities

Community Halls:

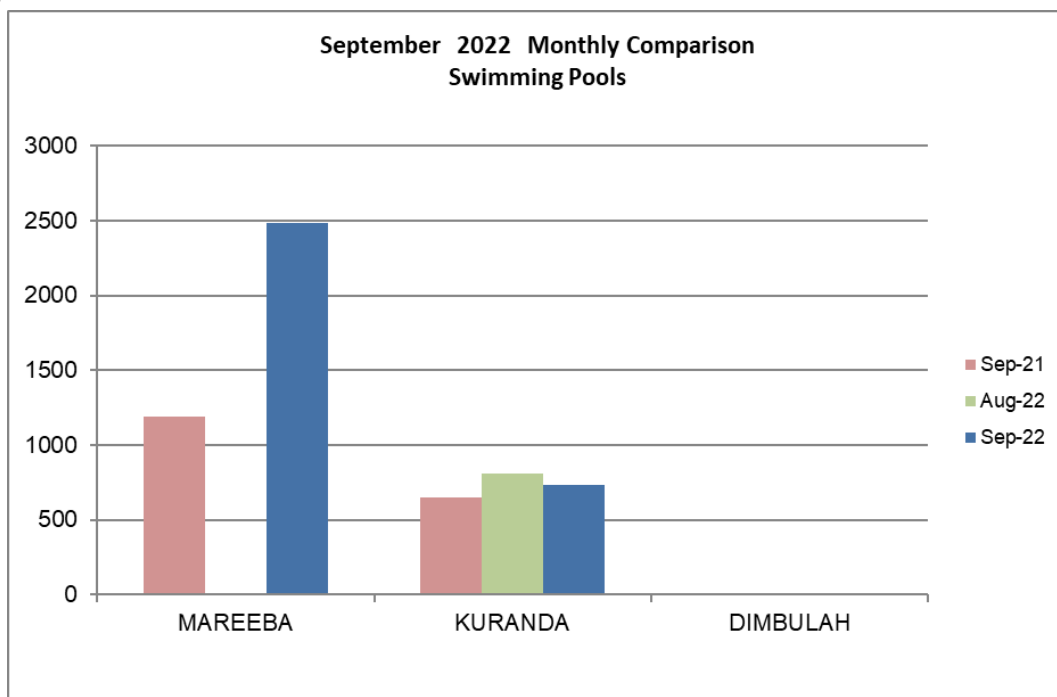
Maintaining safe and efficient access to Council Community Halls is recognised as an important aspect for the community's ongoing wellbeing.

September hall hires have slightly decreased against the previous month. The largest decrease in utilisation is for the Mareeba Band Hall with QLD Health ending the Covid testing clinic. School Holiday periods during September may contribute to the reductions.



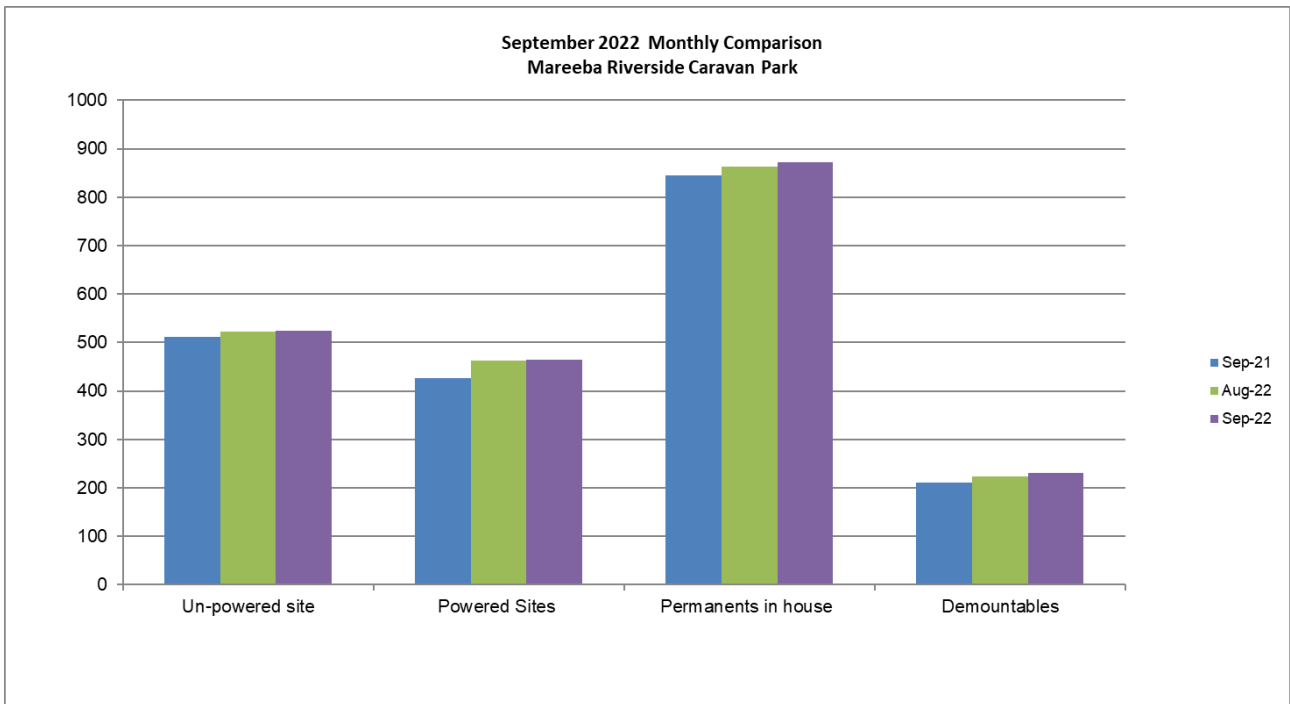
Aquatic Centres

The Dimbulah Aquatic Centre remained closed during September, however with pools being refilled in time for October, local residents will once again gain access to the facility. Mareeba attendances have recovered compared to last year and further growth is anticipated as we enter the summer months.

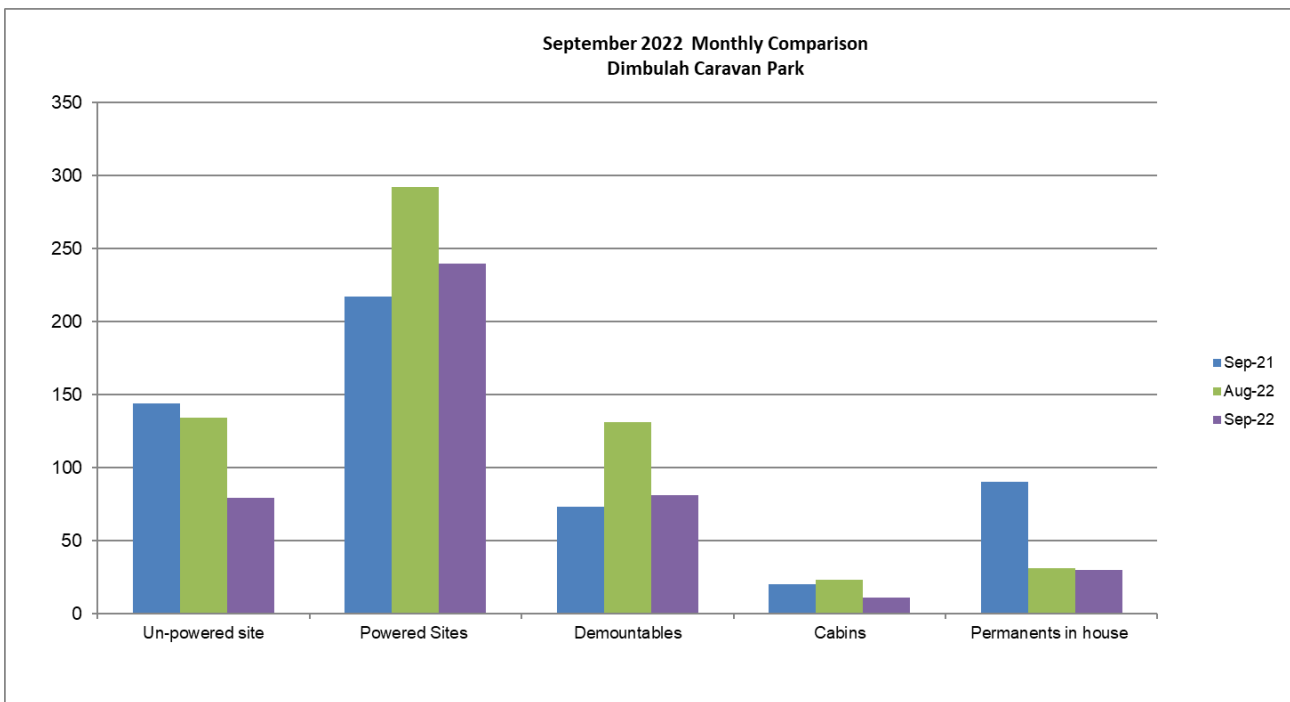


Caravan Parks:

Mareeba Riverside Caravan Park tenant numbers have strengthened across all sectors. Works to replace the Ablution Building are underway, which should see improvements to the caravan park’s amenities improve.



Dimbulah Caravan Park utilisation remains comparable for the September periods of 2021 – 2022, however traditional decline in tenancy numbers is expected through the summer months.



Vandalism & Graffiti:

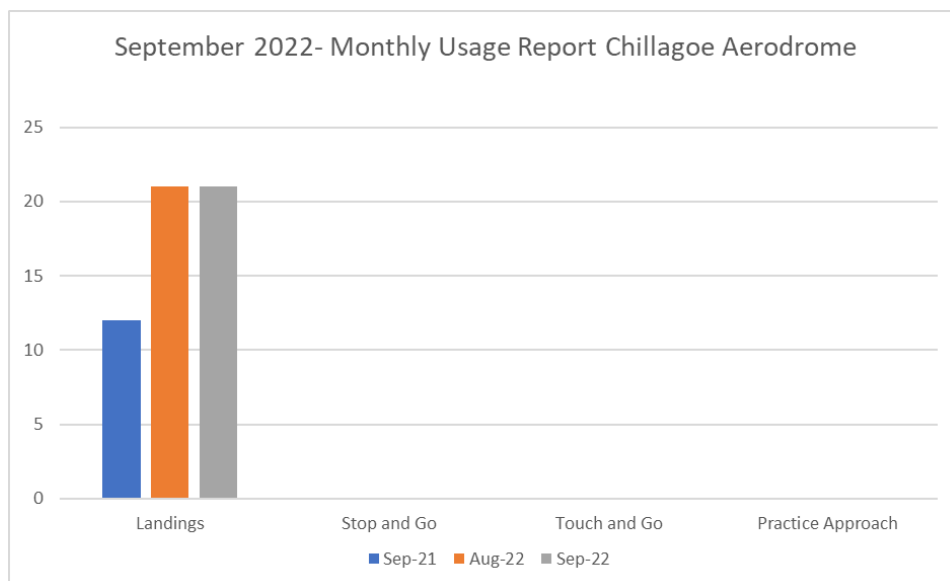
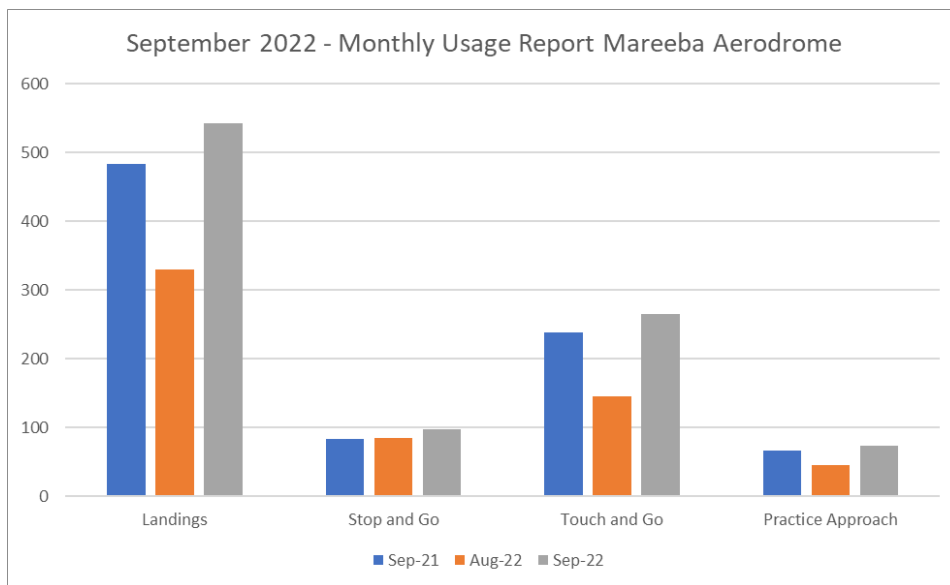
During September, 4 reports of vandalism/graffiti were recorded for Council facilities, with annual costs provided below;

Financial Year	Actuals	Comments – September 2022
2015/16	\$ 2,134.00	<ul style="list-style-type: none"> • Mareeba CWA Toilets - vandalism x 1 • Mareeba Centenary Park - Vandalism x 1 • Mareeba CWA Toilets - Graffiti x 2
2016/17	\$ 16,546.00	
2017/18	\$ 23,948.00	
2018/19	\$ 14,851.00	
2019/20	\$ 14,211.18	
2020/21	\$ 62,199.62	
2021/22	\$ 48,301.12	
2022/23	\$9,367.97	

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

Aerodromes

The data recorded below is current for the month of September.



FINANCIAL AND RESOURCE IMPLICATIONS***Capital***

Programs are being delivered in line with expectations, a small surplus across the portfolio is anticipated.

Operating

Additional cost associated with graffiti and vandalism is expected and will be accommodated within existing budget allocations.

LINK TO CORPORATE PLAN

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

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

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

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

9.4 INFRASTRUCTURE SERVICES, CAPITAL WORKS MONTHLY REPORT - SEPTEMBER 2022

Date Prepared: 27 September 2022

Author: Director Infrastructure Services

Attachments:

1. [Capital Works Summary - September 2022](#) ↓
2. [Capital Works Highlights - September 2022](#) ↓

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 2022.

RECOMMENDATION

That Council receives the Infrastructure Services Capital Works Monthly Report for the month of September 2022.

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 2022/23 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



Project Description	Project Stage	Comments
Program: 01 Rural and Urban Roads Reseal Program (Renewal)		
2021/22 Reseal & Asphalt Program	Close Out	Project completed August 2022.
22/23 Reseal & Asphalt Program	Construction	Bitumen reseals will commence 22/10/2022, weather permitting, & take approximately 2 weeks to complete. Line marking will follow. An asphalt overlay program will be developed & offered for tender in the last quarter of the current financial year.
BETTERMENT Co-Contribution	Planning	QRA & Council working on submission. Anticipate \$3.3M program
Program: 02 Gravel Resheet		
2021/22 Gravel Resheet Program	Close Out	Works Group have changed to 22/23 project number & this project will be closed out when commitments clear. Project complete August 2022.
22/23 Gravel Resheet Program	Construction	Grievsen Road resheeting was completed in September. The resheeting of Ivicevic Road & Horan Street are programmed for October.
Program: 03 Urban Streets		
R2R Reynolds St Mba Replace K&C	Close Out	Project completed August 2022.
TIDS Rankin/Walsh St Roundabout	Design	Consultant engaged and currently completing Options Study. Report to be finalised by Dec 2022.
Program: 04 Rural Roads		
TIDS Euluma Ck Rd Ch7.01-9.325 Rehab	Construction	Section A & B subgrade replacement is 80% complete. Select fill & road base has been imported to 50% of replaced subgrade area. The project is programmed for completion in mid to late November, weather permitting.
TIDS Euluma Ck Rd Ch 9.350-10.130 Rehab	Procurement	The start date for the project has been pushed back to mid-April 2023 to allow for the construction of curve widening on Springmount Road, which is also a TIDS project that needs to be completed by 2023 FY end.
Borzi Rd Mba Widen & Seal Ch 0.03-0.67	Procurement	Project delayed until October due to urgent re-seal preparation works taking precedence.
TIDS Ootann Rd Section 1&2 Widen & Seal	Design	Stage 1 - 60%, Stage 2 & 3 - 20%. Design to be completed Jan/Feb 2023.
TIDS Springmount Rd Widen & Seal	Design	Consultant to provide finalised/Signed design 7 October 2022.
R2R Bilwon Rd Rehab & Culverts	Not Commenced	Programmed March 2023 to April 2023.
R2R Wolfram Rd Stage 3 Priority Sections	Procurement	Programmed January 2023 to March 2023.
Program: 05 Bridges		
BRP4 Kanervo Rd Davies Cr Br Rplc Bridge	Construction	The eastern abutment is now poured & girder installation, abutment backfilling & rock protection has commenced. The project is on track to be completed by the end of October.
BRP5 Davies Ck Road Bridge Replacement	Completed	Construction complete July 2022 & funding acquitted. Final certification is ongoing.
Granite Ck Mba Replace Footbridge Deck	Procurement	Designs received, works will be programmed for after the completion of Kanervo Road Bridge Upgrade.
Palm Cl Mba Replace Footbridge Boards	Procurement	Designs received, works will be programmed for after the completion of Kanervo Road Bridge Upgrade.
Bicentennial Lakes F/bridge Safety Upgr	Procurement	Designs received, works will be programmed for after the completion of Kanervo Road Bridge Upgrade.
Kauri Ck Bridge Speewah Rd Repl. Girders	Not Commenced	Programmed for February 2023, weather permitting.
Bullaburrah Ck Rd C'way Relieving Slab	Not Commenced	Programmed for March 2023, weather permitting.
Clohesy River Barron St Inspect & Design	Planning	QRA rejected application for Bridge Reinstatement. Scope of works to be redefined to address sinking abutment. Tender currently out seeking prices for Geotech.
Bolton Rd Inspect/Design/Repl Girders	Design	Consultant provided indicative price to complete level 3 inspection.
Barron Riv. Bridge Oakforest Rd Insp/Des	Planning	Consultant provided indicative price to complete level 3 inspection.
Barron River Cwy Henry H Dr Repl Slabs	Not Commenced	Programmed for April 2023, weather permitting.
Program: 06 Drainage		



Project Description	Project Stage	Comments
21/22 Minor Culvert & C/ways Renewal	Close Out	During August culvert repairs were completed at Pin Road, Wright Road & Leafgold Weir Road. Project completed August 2022
Amaroo Mba Drainage Upgrade Stage 2	Close Out	Project completed August 2022.
22/23 Minor Culvert & C/ways Renewal	Not Commenced	The installation of a new RCBC at Hawkins Road & McIver Road is programmed for October.
MBA Amaroo Drainage Upgrades	Not Commenced	Programmed for May 2023, weather permitting.
MBA Hastings Dr Replace Concrete Pipe	Not Commenced	Programmed November/December 2022, weather permitting.
Program: 08 Parking		
Borzi Park Mba Carparking Masterplan	Planning	Design to be completed Feb 2023.
MBA Heritage Centre Carpark Extension	Design	Survey underway, design to be completed Dec 2022.
Program: 09 Footpaths		
MBA Rail Trail Stage 1 Mba to Airport	Construction	Signs have been ordered & will be installed once received. The timber railway bridge will have a deck refurbishment & made open to trail uses once the Kanervo Road bridge upgrade is completed in late October
MBA Walking Network Plan	Design	Footpath condition assessment undertaken to develop a priority works plan for CBD - 1km radius including Schools and hospital areas.
KDA Walking Network Plan	Planning	Preliminary zoom meetings with the consultant to discuss the scope of works, existing inputs and influences. GIS footpath, zoning and road network base plans provided. Public consultation workshop scheduled for Kuranda CWA Hall 20 October.
22/23 Shire Wide Footpath Renewal Prog	Planning	Walking Network Report received. Initial review in late August identified several sections of new footpath & pedestrian safety improvements within the 500m CBDbuffer zone (centered at Anzac Park) would benefit pedestrians. A tender will be developed after further scoping & released for external delivery.
22/23 Walking Network Upgrade Program	Not Commenced	Kuranda Walking Network Plan Inception meeting held with the Consultant engaged to undertake the study and provide a report. MSC Community Services section advised of the public consultation requirement.
Program: 10 Parks and Gardens		
Parks & Open Spaces Strategy	Construction	Parks and Open Spaces Strategy and 3 year action plan adopted by Council in February 2022. Refer quarterly report for progress updates on individual projects.
Mba Off road Trails Masterplan	Not Commenced	No change. Project to commence early 2020. Proposal discussed with Councillors during CEO Update 18 April 2018 and it was agreed to combine funds with CP00156 to hire consultant to prepare sport and rec infrastructure strategic plan that will collect condition assessment data to help determine priorities. Data will also be used for community facilities asset management plan. Plan will also include priority off road trails and priority pedestrian and cycle ways in Mareeba and Kuranda.
LRCIP2 21/22 Park Entrance Sign Renewal	Close Out	10 Acre Park sign has been installed. Project completed August 2022
LRCIP2 Mba Byrnes Street Medians	Close Out	Project completed July 2022.
DIM Town Hall Park Refresh	Planning	Community consultation undertaken and reflected community's desire to upgrade Railway Park playground and remove play equipment in Dimbulah Town Hall Park. Project scope to be refined and concept plans developed.
KDA Centenary Park Playground Upgrade	Design	Moduplay requested to provide a revised design with additional equipment. Site meeting held with Moduplay PM to confirm the positioning of the revised layout for constructability. Assessment of potential conflict with existing services irrigation, electrical retic, water and stormwater undertaken. Moduplay currently manufacturing and ordering the various play equipment components.



Project Description	Project Stage	Comments
MBA Bicentennial Lakes (Southern) D&C	Planning	Tenders for design received in August and report to be tabled at October meeting to award.
MBA Byrnes St Medians	Not Commenced	Work will be programmed for the second half of the current financial year.
MBA Anzac Memorial Pk L'scaping & Safety	Procurement	Works to commence Monday 14/11/2022.
MBA Byrnes St Traffic Islands (BP)	Not Commenced	Work will be programmed for the second half of the current financial year
MBA Connection Rd/Byrnes St Intersection	Not Commenced	Work will be programmed for the second half of the current financial year.
MBA Costin St Medians	Not Commenced	Work will be programmed for the second half of the current financial year.
MBA Sunset Park Exercise Equip Renew	Not Commenced	Australian supplier of Norwell fitness equipment contacted to ascertain potential to refurbish damaged equipment.
KDA Anzac Park Landscaping	Not Commenced	Landscape architect engaged to provide design options for the proposed refurbishment and upgrade. A site meeting was held with the landscape architect to discuss the prevailing issues and potential solutions.
KDA Coondoo Street Upper Refurb	Not Commenced	Inception site meeting held with consultant - scope of works confirmed. Electronic drawing files of Coondoo St and current lighting coverage provided.
KDA CBD Planter Boxes & Gardens	Not Commenced	Not commenced
DIM Avenue of Trees Irrigation	Not Commenced	Work will be programmed for the second half of the current financial year.
IRV School of Arts Park Seating & Shade	Not Commenced	Concept plan to be developed.
MBA Eastern Catchment Park Amaroo St1	Procurement	Playground installation to commence 1/11/2022.
Program: 11 Water		
WTP Staged start up water pump upgrade	Design	Design process has commenced with on site inspection in early September, survey and locations works completed.
MWTP Filter 3 install backwash pumps	Not Commenced	Project on hold pending outcome of BOR grant application for funds toward new filter block.
Mba Optimise clarifer performance upgrad	Design	Some initial works commenced.
Mareeba - Backwash operation renewal	Planning	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.
W4Q4 Mba AC & Defunct Pipe Rplcmnt 2.5km	Completed	Contractor progressing with connection works and once these are completed road reinstatements will be done and expect the project to be completed by early September.
Mba WTP Study for Upgrade of WW System	Construction	Works progressing well and hopefully will be completed by end of October or early November.
MWTP 5ML Reservoir Roof Replacement	Close Out	Works now finished.
BBRF Unconfirmed MWTP Filtration Upgr	Design	Project design works continuing and actual project waiting on funding approval from grant application process
MBA Clear Water Booster Pump Station	Design	Project design underway and design expected to be completed by end of December or early January.
22/23 Water Pipe Renewal Program	Construction	Project works well underway with contractor making good progress. Council reticulation staff also doing small section of AC pipe renewal located Chewko Road.
22/23 Water Telemetry/SCADA Upgrades	Planning	Works underway with our external provider.
DIM WTP New Turbidity Meters	Procurement	Procurement underway with quotes sourced and orders issued.
KDA WTP Auto Backwash on 3 Filter Cells	Planning	Treatment operations staff to liaise with City Water Technology and or suitably qualified person for the implementation works.



Project Description	Project Stage	Comments
22/23 Smart Meters Replacement	Planning	Currently compiling a list of meters by year and usage to determine quantity of meters required and scheduling a program for installation. Taggle have also advised of supply chain delivery issues so we are working with Taggle to have small deliveries made over the course of the 2022-23 FY.
22/23 Hydrant Renewal Program	Construction	Council officers reviewed recent maintenance works to determine number and locations for hydrant renewals, with installation works commenced .
MBA WTP Raw Water Pumps & Electrics	Design	Design underway with project site inspection and survey and locations done.
22/23 Valve Replacement Program (Retic)	Construction	Council reticulation staff currently installation valves and locations identified on the western side of Mareeba.
BOR6 22/23 Water Forward Design Program	Design	Design Works currently underway on clarifier process improvements.
MBA Additional Pressure Reduction Valves	Planning	Locations of RPV's have been modelled and calculated during booster pump station design works and will have to be cells at the Treatment Plant and Centenary Park booster station.
MBA Decommission Basalt St Elevated Tank	Planning	Works to be undertaken in conjunction with the booster station project, can only be done as the new booster station is being commissioned.
MBA Decommission Granite Ck Pump Station	Planning	Works to be undertaken in conjunction with the booster station project, can only be done as the new booster station is being commissioned.
MBA WTP Chemical Bund	Completed	Works now completed.
DIM Caustic Soda Dosing Pumps & Shed	Construction	Project commenced and awaiting on steel to arrive for shed, once the steel is here it'll be erected and the new dosing equipment will then be installed.
WTP Minor Infrastructure Replacements	Construction	Equipment ordered and installation works will commence once equipment arrives and time will depend on supply chain delivery times.
MBA WTP Clarifier Infra Process Improv.	Design	Design underway, once their assessment has been completed they'll submit to Council officers for further review and options assessments.
MBA/KDA/DIM WTP Inst. Chloring Analysers	Procurement	Quotes were sourced and equipment ordered, when the equipment arrives it'll be installed and commissioned.
MBA Trial Chloring Dosing	Planning	This work to be undertaken in conjunction with new filter project if successful with grant application for the new filters.
Program: 12 Wastewater		
Mareeba Aeration diffusers every 5 years	Close Out	Works now completed.
21/22 W/water Telemetry/SCADA Upgrades	Completed	Works completed.
New Sewer Pump Stn Standby Generators x2	Construction	New generators have been installed and housing being made to protect them from vandalism and the elements.
21/22 Mba Sewer CCTV & Relining Program	Construction	Last four (4) lines now relined and council officers are preparing to close outthe 2021-22 FY program.
21/22 Mba WWTP Component Renewals	Close Out	Works essentially completed and once commitments are cleared project can be closed out.
Granite Ck Mba Sewerage Pump Stn Refurb	Construction	Works are progressing well with hydro demolition works completed and steel fixers fixing steel ready for concreting of divider wall.
21/22 Mba Pump Stn Magflow Install Prog	Close Out	New flow meters now installed at Kenneally Road SPS and Robins Street SPS with electrical and telemetry installation to be finalized.
Mba Minor Pump Stn H2S Protect/Refurb	Completed	Project now completed and once final commitments are finalised the project can be closed out.
MBA Bi-Lakes Sewer Main Capacity	Design	Project design underway and applications to TMR and QRail for crossing permits have been submitted as part of the project.
22/23 WW Telemetry/SCADA Upgrades	Planning	Program will see the Mareeba WWTP SCADA upgraded to latest version with work planned for first half of 2022-23 FY.



Project Description	Project Stage	Comments
22/23 New Standby Generator Program	Procurement	New generators are on order with one arriving and being stored in Cairns and another on its way. Once both have arrived in Cairns they'll then be sent to Mareeba.
22/23 MBA Sewer CCTV & Relining	Planning	Project is scheduled to commence mid to late October dependent on contractors staffing.
22/23 Manhole Rehab & Replace Program	Construction	Works underway with about 50 % of the 2022-23 scheduled program completed.
KDA TP Chlorine Dosing Pumps	Procurement	Goods are on order and potentially long lead time of delivery.
KDA TP RAS System Submersible Pumps	Planning	Assessment on selection of new pump will be done during routine maintenance works scheduled for November.
KDA TP Bioreactor Aeration Blower	Planning	New blower on order with potentially a six month lead time for delivery.
Minor WW Pump Station Refurbishments	Not Commenced	Project on hold as funds from this project diverted to Granite Creek SPS project.
22/23 WW Forward Works Design Program	Planning	Review of Atherton St SPS underway to determine if a new pump station is required or the existing pump station can be refurbished.

Program: 13 Waste

KWTS Weighbridge & Gatehouse	Close Out	In negotiations with weighbridge about final invoicing, at this stage not in agreeance with supplier and trying to resolve as soon as possible. Supplier taking time to respond.
MWF Buy Back Shop Construction	Close Out	If ident Survey is completed then project can be closed out.
MWF Construct New Landfill Cells	Design	Project design progressing however there is a lot of work required on the electrical side of the design works. Council officers met with Golder/WSP to determine a way forward and Council officers have now provided Golder/WSP with further technical information which will hopefully allow the design to progress in the coming months then to completion.
MBA Transfer Station New Baler	Procurement	Grant funding source wanted the project plan updated which has been completed prior to signing the grant deed and progressing the project.
MBA/KDA Transfer Station Security Improv	Construction	Mareeba WTS CCTV Upgrade works completed, awaiting the delivery of a swivel pole for the Kuranda WTS. Once the pole arrives it'll be installed and CCTV upgraded.

Program: 15 Fleet

GPS Vehicle Management System	Planning	Business Case being developed.
Hydro Vac to Replace Jet Rodder	Completed	Secondhand Truck Mounted Hydrovac unit purchased, Unit available for service 1 October 2022.
Fleet Replace #676 Civil Works Truck	Completed	Project Completed May 2022.
Fleet Renewal #509 Backhoe	Completed	New machine delivered 2nd August 2022.
Fleet Replace #4053 Husqvarna Zero Turn	Completed	Project completed, August 2022.
Fleet Refurb Truck Mounted Water Tank	Planning	Business Case being developed.
Fleet Replace #621 Single Cab Tipper	Procurement	Purchase order raised July 2022. Wait time for delivery 8-10 months.
Fleet Replace #675 Crew Cab Tipper	Procurement	Purchase order raised July 2022. Wait time for delivery 8-10 months.
Fleet Replace #623 Crew Cab Tipper	Procurement	Purchase order raised July 2022. Wait time for delivery 8-10 months.
Fleet Replace #5006 Tractor	Procurement	Purchase order raised July 2022. Wait time for delivery 8-10 months.
Fleet Replace #6253 Road Broom	Planning	Tender process.
Fleet Replace #1304 Landcruiser	Procurement	Purchase order raised and sent to supplier July 2022. Expected delivery 8-10 months.
Fleet Replace #1305 Landcruiser	Procurement	Purchase order raised and sent to supplier July 2022. Expected delivery 8-10 months.
Fleet Replace #1323 Triton	Procurement	Purchase order raised and sent to supplier July 2022. Expected delivery 8-10 months.
Fleet Replace #1337 Triton	Procurement	Purchase order raised and sent to supplier July 2022. Expected delivery 8-10 months.



Project Description	Project Stage	Comments
Fleet Replace #1229 Hilux	Procurement	Purchase order raised and sent to supplier July 2022. Expected delivery 8-10 months.
Fleet Replace #2052 Triton	Procurement	Purchase order raised and sent to supplier July 2022. Expected delivery 8-10 months.
Fleet Replace #1315 Landcruiser	Procurement	Purchase order raised and sent to supplier July 2022. Expected delivery 8-10 months.
Fleet Replace #1328 Triton Trayback	Procurement	Purchase order raised and sent to supplier July 2022. Expected delivery 8-10 months.
Program: 16 Depots and Council Offices		
Rankin St MSC Admin Office Refurb	Construction	Further variations to be delivered September. External entry tiling. Move posts in finance area.
Kowa St MSC Depot Emergency Generator	Design	Generator costings forwarded to Manager TS for consideration.
Program: 17 Community Buildings		
Koah Tennis Court Replace Timber Poles	Construction	Poles & LED lights dispatched from Brisbane - delivery imminent. Electrician advised tentative installation date mid-late October.
Kitchen replacement program	Construction	New kitchen installed at 12/27 Lawson Street
Internal painting for five properties	Not Commenced	Not commenced
Aquatic Facility Upgrades & Splash Park	Construction	Design layout approved - Kirratech proceeding to detailed design. Deposits paid for manufacture of splash park components & also Rheem heat pumps.
Dimb/Mba/Kda Pools Chloring Dosing Impr	Planning	Project on hold until Aquatic Tenders finalised.
Mba PCYC Shire Hall Part Roof Replacemt	Construction	Variations raised for water damaged timber fascia's and hood vents. Works commenced to manufacture new hood vents.
LRCIP2 21/22 Shire-wide Ablution Ref Pg	Completed	Close out.
MBA Women's Restroom Refurb	Design	Consultant met onsite to provide over view, preparation of RFT/EOI to commence with intent to progress to open market engagement end of October 2022.
MBA Riverside CPark Amenities Replace	Construction	Temporary amenities installed and connected. Demolition works commenced.
22/23 Shire Toilet Facility Repl Program	Not Commenced	Projects are: Mareeba Aerodrome, Mareeba Cemetery, Mt Molloy Vains Park
MBA Community Hub Signage & Seating	Design	Concept design provided to Project Management team for inclusion in delivery program. Pre-start (projects) not yet held.
DIM CPark Shower Septic Modifications	Design	Soil Report received, Tenders being called for the works.
MBA New CBD Toilet Facilities	Design	One location selected for delivery by Council, Post Office Carpark. Design is to incorporate two (2) cubicles. Concept developed and is to be handed over to Projects for delivery.
MBA Purchase Leagues Club Land	Not Commenced	
22/23 Facilities Refurbishment Program	Not Commenced	Restricted Use - Only to progress under direction of EMT to address Management Agreement constraints.
MBA Aquatic Cnt Entrance Upgrade & Paint	Not Commenced	
KDA Community Prec. Toilet Refurb	Not Commenced	Initial discussion held with Project team, site inspection to be undertaken to clarify extent of possible works. Jan 2023 target timeline for inspection.
KDA Aquatic Cnt 25m Pool Auto Fillers	Planning	On hold pending 3rd party review of equipment.
CHI Hub Sign Replacement	Cancelled	Following Community meeting in Chillagoe, project put on hold until further notice.
KDA Aquatic Cnt 25m Pool Cleaner	Not Commenced	On hold pending further investigation.
KDA Aquatic Cnt 25m Pool Aquaris Upgrade	Not Commenced	On hold pending further investigation.
22/23 MBA Roof Replacement Program	Planning	Procurement delayed due to requirement to re-scope. Scope finalized. Procurement to be finalized by 19/10/2022.

Infrastructure Services Capital Works Summary Report - September 2022



Project Description	Project Stage	Comments
22/23 MBA Bitument Driveway Renewals	Planning	Procurement via Works department. Program commenced. Works to be delivered by 22/12/2022.
MBA Timber Fascia Replacement	Planning	Project on hold. Timber fascia's not required at this time. Possible minor maintenance works to be delivered by Mareeba Community Housing Company.
22/23 DIM Bathroom Renewal Program	Planning	Scoping Commenced. Procurement to be finalized by 8/10/2022.
Program: 18 Non-Infrastructure Items		
Kuranda New Cemetery	Design	Consultant engaged for the Detail Design of Stage 1 of new cemetery, to be completed prior to end of Calendar year 2022. If works to be completed by External Contractor, Tender for works will be undertaken February/March 2023 for delivery in Dry Season of 2023.
DRFA Flood Warning Infra Network (Rn)	Completed	Physically completed June 2022, documentation closeout to be finalised by end of September 2022.
Kuranda Columbarium Wall	Close Out	Project completed June 2022
New Total Station Tilting Auto Pole	Not Commenced	Awaiting Delivery.
MBA Cemetery Lawn Plaque on Beam	Completed	Complete.
DIM Cemetery Lawn Plaque on Beam	Not Commenced	On hold.
MBA MIP Expansion	Planning	Engagement of consultancy currently underway.
Program: 20 KIAC		
KIAC - New Wayfinding Signage	Construction	Procurement for installation finalized. install works to commence 7/11/2022 and program to be complete 25/11/2022.

Infrastructure Services Capital Works Report Project Highlights - September 2022



Project Name: Euluma Creek Road, Julatten - Rehabilitate and Widen

Program: Rural Roads

Background

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

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

Scope of Works

The second of these projects is the widening of the narrow sections of existing bitumen sealed road to 8m including the replacement and extension of existing culverts from Chainage 7010 to Chainage 9350.

Progress Update

The pavement rehabilitation and widening activities commenced in December 2021 and were subsequently put on hold due to the continued wet weather certain areas of the shire experienced in 2022.

Work recommenced in late May when site conditions improved enough to allow construction at several locations within the project footprint. Minimal rainfall in September allowed for significant progress to be made during the month.

Section A - Ch 7010 to 7180

Section B - Ch 7630 to 8295

- Import base layer RHS
- Remove unsuitable subgrade and replace with rock and select fill LHS
- Commence import of base layer LHS

Section C - Ch 8385 to Ch 8760

- Complete

Section D - Ch 9010 to Ch 9350

- Complete

Infrastructure Services Capital Works Report Project Highlights - September 2022



Removal of unsuitable subgrade



Bidum installation



Back filling with crushed rock



Completed subgrade replacement section



Infrastructure Services Capital Works Report Project Highlights - September 2022



Project Name: Kanervo Road - Davies Creek Bridge Replacement

Program: Bridges

Background

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

The grant is for \$350,000 to cover a maximum of 50% of the construction costs.

Scope of Works

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

Progress Update

During September, the construction of the western abutment reached above the water height of Davies Creek and the crew is now working in dry conditions, so progress has quickened considerably. The eastern-most span has had the precast girders and kerb units installed.

The final pour for the western abutment is programmed for early October and this will allow the backfilling component of the project to commence. Once backfilling is complete, the western relieving slab can be formed and poured.

The project remains on track to be opened to traffic by the end of October, weather permitting.



Pouring concrete blinding layer- western abutment



Steel reinforcing in place-western abutment

Infrastructure Services Capital Works Report Project Highlights - September 2022



Concrete base-western abutment



Eastern span girders & kerb units



Commencing formwork-western abutment



Completed formwork-western abutment

Infrastructure Services Capital Works Report Project Highlights - September 2022



Project Name: 2022/23 Gravel Re-Sheet

Program: Gravel Re-Sheet

Background

Funding has been allocated in the Capital Works Budget for re-sheeting works to be undertaken where required at various locations throughout the shire. The works are carried out generally in conjunction with Council's road maintenance unsealed road grading program to reduce the cost of mobilisation of plant.

Progress Update

During September, sections of Rains Road and Grievson Road were completed.



Grievson Road



Rains Road

Infrastructure Services Capital Works Report Project Highlights - September 2022



Project Name: Mareeba Rail Trail Stage 1 - Mclver Road to Vicary Road

Program: Footpaths

Background

As part of Mareeba Shire Council's Parks and Open Spaces 3 year Action Plan, Council approved a project to re-sheet the old railway line corridor from Mclver Road to Vicary Road for the use of pedestrians and cyclists. Included in the scope is the provision for safe crossing points where the corridor intersects with local roads and existing private accesses and the refurbishment of the existing timber railway bridge just south of Mclver Road with new decking planks and a safety rail.

Progress Update

The trail surfacing and intersection arrangements were completed during September. The timber rail bridge will be made operational for pedestrian and cycle use during November when the bridge crew become available. Signage at all entrance points depicting acceptable trail usage have been ordered and will be installed once received, currently estimated to be mid to late October.



Mclver Road Crossing



Mines Road Crossing



Gallo Drive Crossing



Vicary Road Crossing

Infrastructure Services Capital Works Report Project Highlights - September 2022



Project Name: Granite Creek Sewage Pump Station Upgrade

Program: Wastewater

Background

An allocation has been provided in the 2021/22 Capital Works Program to renew and upgrade the Granite Creek Sewage Pump Station, located on Byrnes Street, adjacent to Granite Creek. The ageing infrastructure is rapidly deteriorating and reaching capacity, is inadequate to achieve current safety standards for servicing and maintaining the asset, and there have been numerous odour complaints about the pump station in its present form.

The upgraded pump station will meet current design standards and cater for future growth in the catchment area, which includes all sewered areas of the Mareeba township south of Granite Creek.

Scope of Works

The scope of works includes removal of the existing pump station building, pumps, pipework and associated services, and construction of a new dry well, supply and installation of new pumps, pipework, valves and switchboard. Wastewater will need to be bypassed during construction and the scope of works includes provision of a temporary aboveground bypass system and standby pump for the duration of the project.

Progress Update

Works to remediate the internal divider progressing well. Contractor was applying treatment/primer to steelwork in preparation for installation of new concrete product.



Divider wall remediation Granite Creek SPS

Infrastructure Services Capital Works Report Project Highlights - September 2022



Project Name: AC Pipe Renewal Water Main Upgrade Program – Chewko Road and Hales Street

Program: Wastewater

Background

An allocation has been provided in the 2022/23 Capital Works Program to replace the failed existing asbestos cement (AC) water mains throughout the Shire as part of Council's strategy to address critical water issues across the Shire over the next 10 years.

This project is being undertaken with funding assistance through the Queensland Government's Local Roads & Community Infrastructure Program.

Scope of Works

The scope of works included replacement of the existing water main with 150mm PVC Supermain on Chewko Road and 100mm PVC Supermain on Hales Street and 100mm PVC Supermain on Rice Street, in addition to new service connections, valving and hydrants are being installed.

Progress Update

Works scheduled to be complete week ending late October 2022.



Installation of the new 150mm diameter PVC Supermain water main along Chewko Road

Infrastructure Services Capital Works Report Project Highlights - September 2022



Project Name: AC Pipe Renewal Water Main Upgrade Program – Anzac Avenue

Program: Wastewater

Background

An allocation has been provided in the 2022/23 Capital Works Program to replace the failed existing asbestos cement (AC) water mains throughout the Shire as part of Council's strategy to address critical water issues across the Shire over the next 10 years.

The upgrade of the Anzac Avenue Water Main is being undertaken with funding from the Local Roads and Community Infrastructure Program (LRCIP3).

Scope of Works

The scope of works included replacement of the existing water main with 300mm PVC Supermain and Ductile iron (DICI) on road crossings, in addition to new service connections, valving and hydrants are being installed.

Progress Update

Works commenced early September at the intersection of Herberton and Constance Streets to the John Doyle Bridge and included a large section of Molloy Street with new 150mm PVC Supermain and works are now concentrated along Anzac Avenue to maintain ongoing water supply for properties.



Herberton Street installation of the new 300mm diameter PVC Supermain water main



Molloy Street installation of the new 150mm diameter PVC Supermain

9.7 INFRASTRUCTURE SERVICES, WATER AND WASTE OPERATIONS REPORT - SEPTEMBER 2022

Date Prepared: 27 September 2022

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 2022.

RECOMMENDATION

That Council:

1. receives the Infrastructure Services, Water and Waste Operations Report for September 2022; and
2. endorses the approval of a new capital works project for the replacement of the standby generator for the Dimbulah Water Treatment Plant to be funded through savings in the current capital works program for water.

BACKGROUND

Water and Wastewater Treatment:

All treatment plants are performing satisfactorily. Water demand was varied across all schemes with rainfall in some catchments resulting in slightly lower consumption per connection whereas some were slightly higher due to lower rainfall compared to the previous month.

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.

During September, the standby generator at the Dimbulah Water Treatment Plant has failed and is irreparable. Officers have recommended urgent replacement of the generator is required before wet season as the plant suffers many power outages during storms. The generator is critical to ensure safe and reliable water supply to residents. The cost of the replacement is approximately \$37,000 which is able to be funded through savings in the current capital works program for water.

Water Treatment	Mareeba	Kuranda	Chillagoe	Dimbulah	Mt Molloy*
Water Plant average daily production (kL)	9,843	986	434	460	146
Number of Connections	4,385	982	157	272	137
Average daily water consumption per connection (L)	2,163	1,004	2,764	1,691	1,292

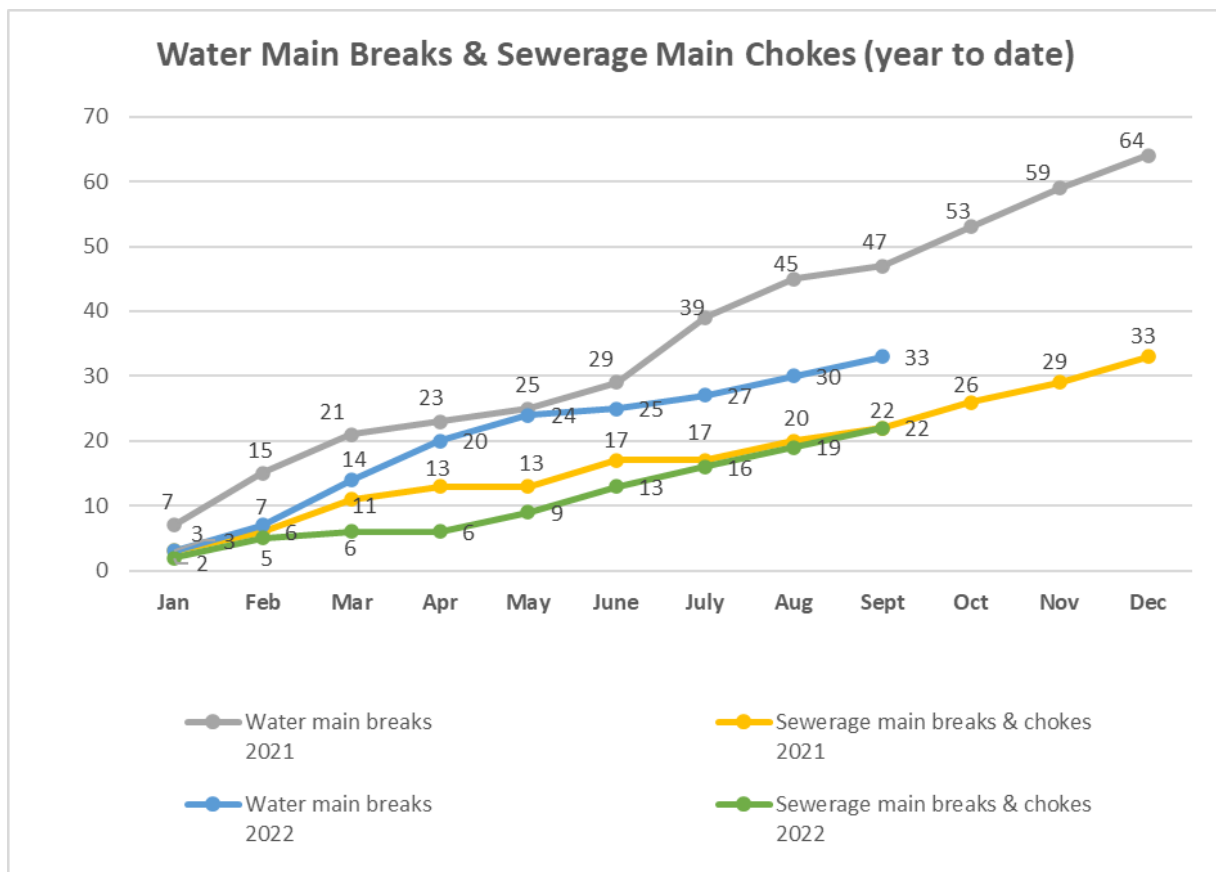
* Mt Molloy is an untreated, non-potable water supply

Wastewater Treatment	Mareeba	Kuranda
Wastewater Plant average daily treatment (kL)	2,046	180
Number of Connections	3,424	346
Average daily inflow per connection (L)	598	520

Water and Wastewater Reticulation:

Council's water reticulation crew attended to three (3) water main breaks and three (3) sewer main breaks/chokes this month, and average response times were within targets set out in Council's customer service standard for water services.

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



Waste Operations:

ARUP’s work on the Regional Resource Recovery Plan is continuing and feedback from several of the regions’ Councils is seeing a re-working of the issues and options paper which will be provided to FNQROC prior to 25 October for further review and discussion.

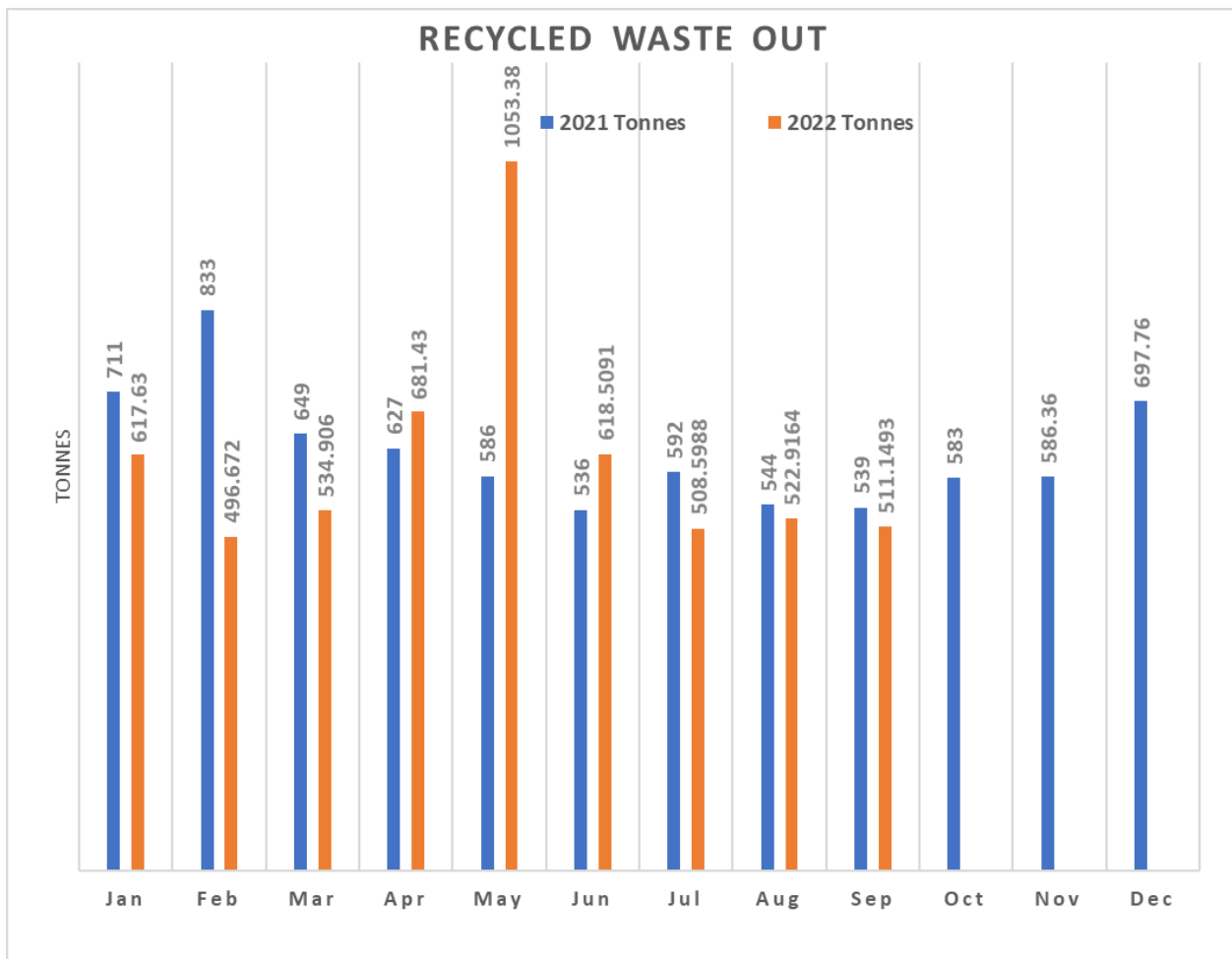
Following a review of the operations at the Mareeba and Kuranda Waste Transfer Stations there will be a slight change to the operating hours coming into effect 1 January 2023. As a result of analysis of patronage by the public, the opening times at both will be adjusted to an hour later and in Kuranda the transfer station will close an hour earlier during the week. This will result in cost savings without adversely affecting customers.

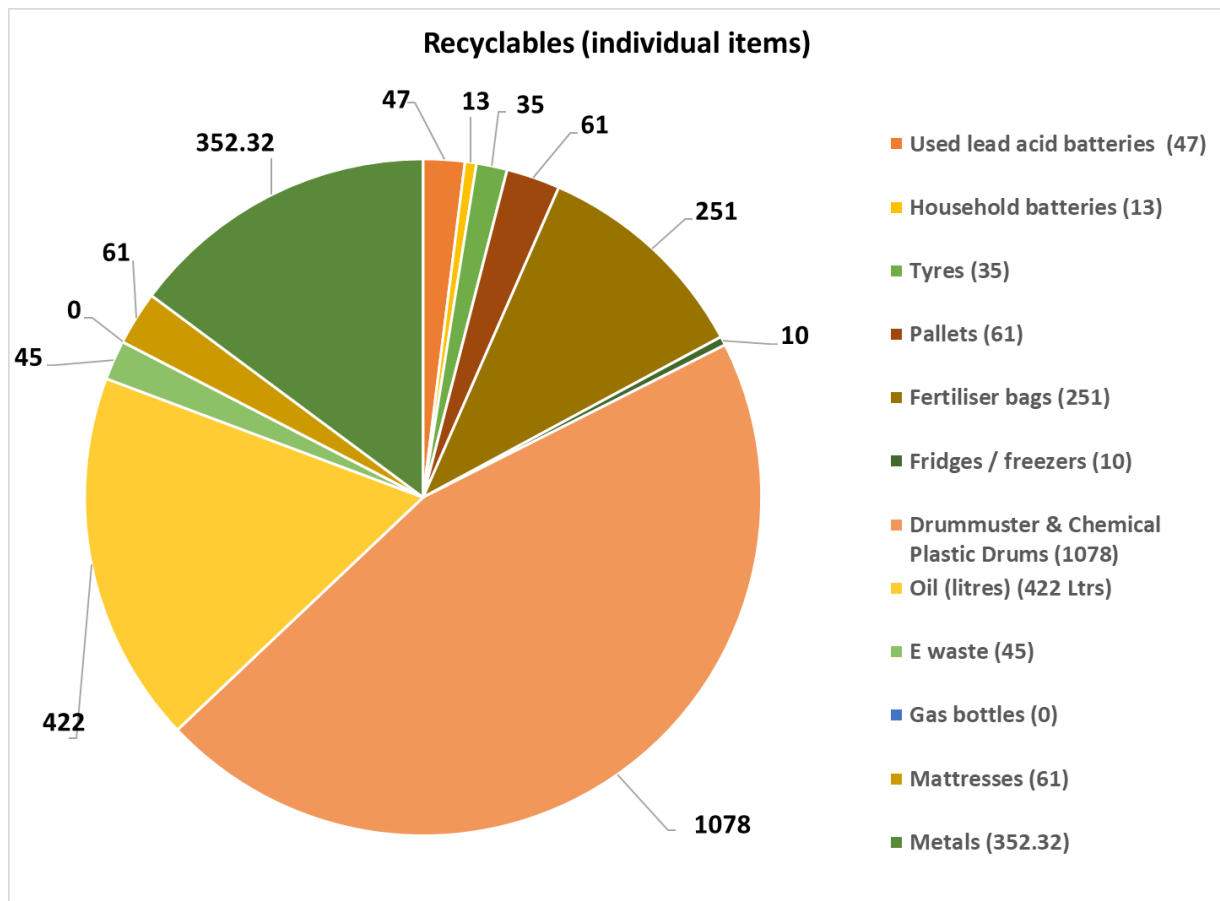
EnviroCom Australia have completed the characterisation waste audit sampling and observations from the waste coming in from transfer stations and from the Kowa Street Depot and Rankin Street Office and final report will be received by the end of October.

Council’s contractor is continuing to experience issues with the IWeigh tablets at certain sites and anticipate this is to be rectified in October. Towns affected are Irvinebank, Mt Molloy, Mt Carbine, and Julatten. Dallas Control Station Tags have been issued to contractors and internal staff that use the Kuranda Transfer Station after hours or on days it is not open; this will record the waste coming in and leaving site.

Recycling

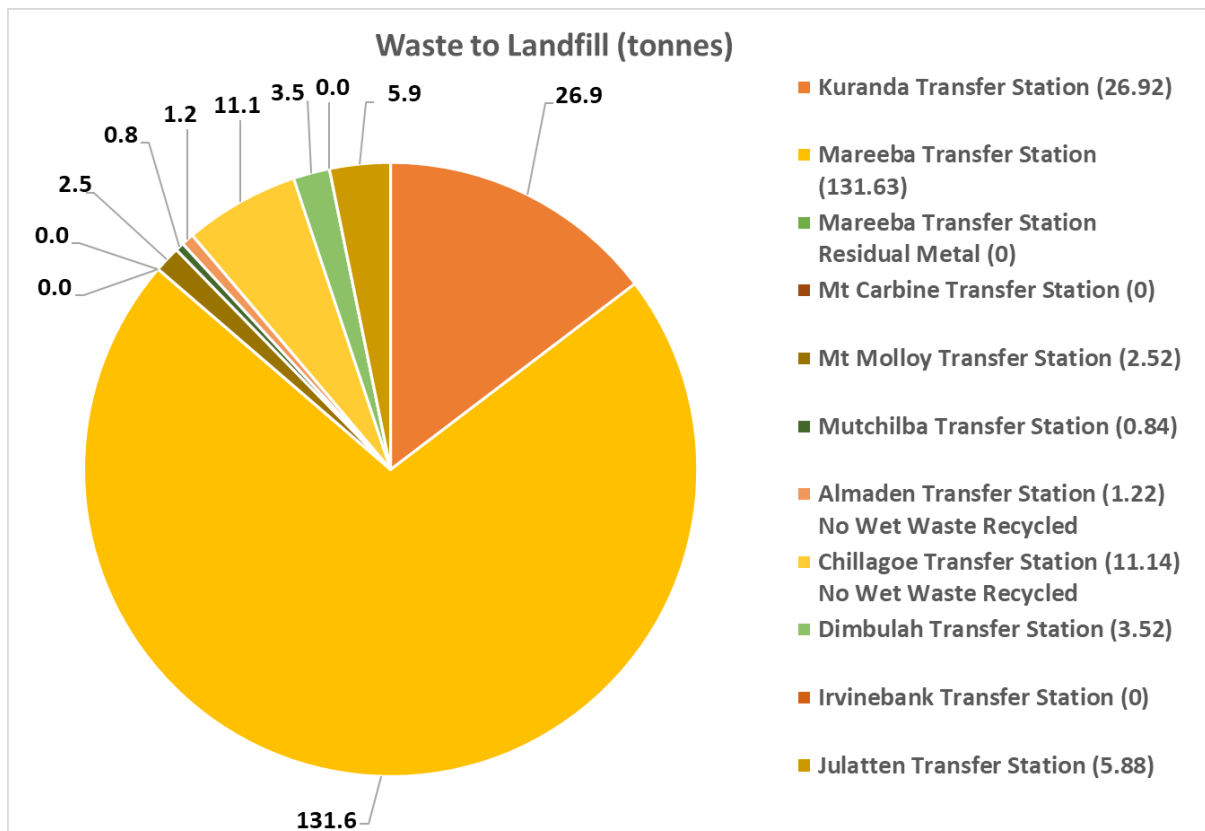
Waste material collected at each of the waste transfer stations are either deposited directly to the Springmount Waste Facility, recycled, or transported to the SUEZ Advanced Resource Recovery Facility (ARRF) in Cairns for processing.





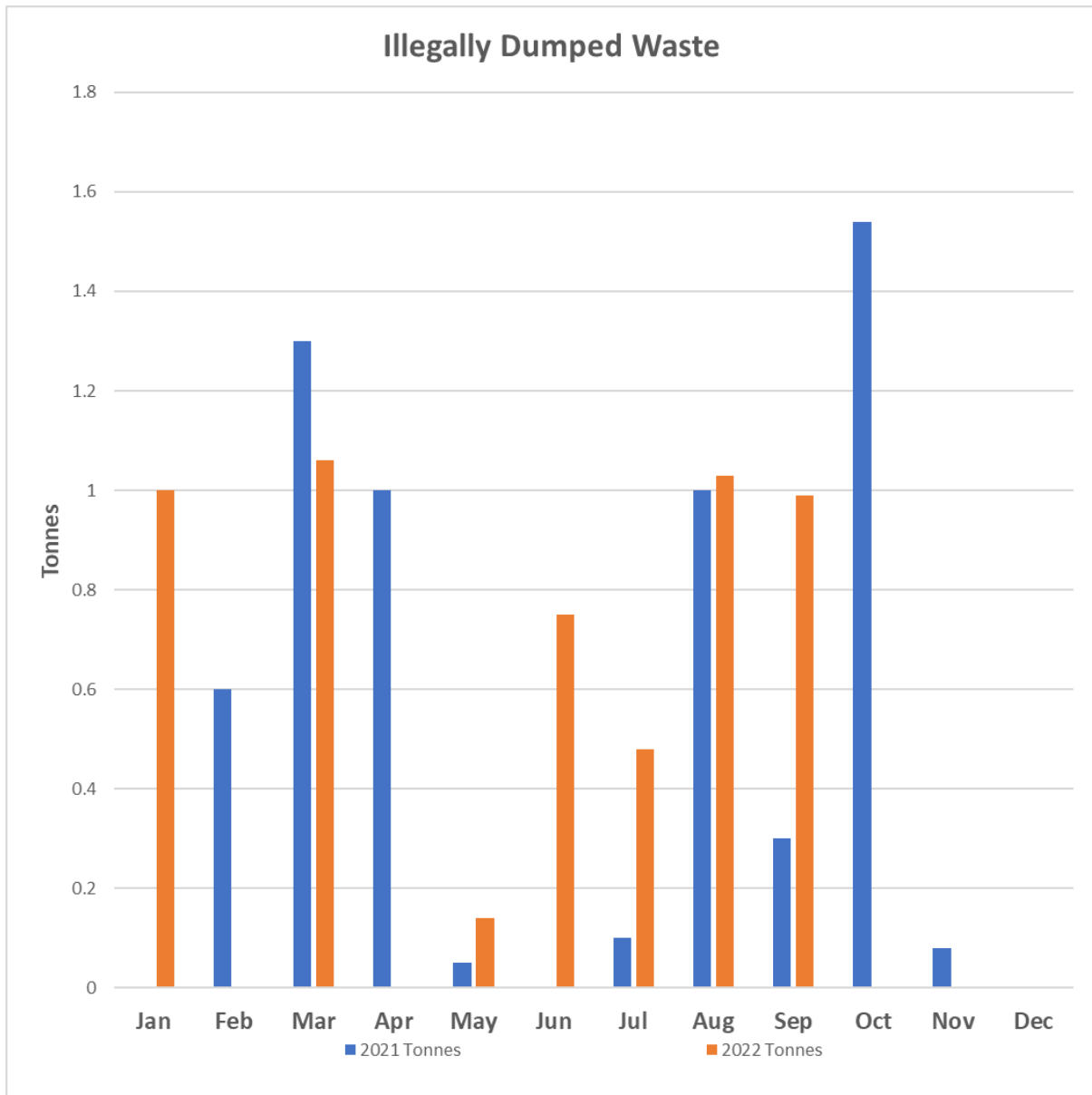
Waste to Transfer Stations

Transfer Station dry waste is transported off site to the Springmount Waste Facility and for the month of September 184 tonnes was landfilled.



Illegally Dumped Waste

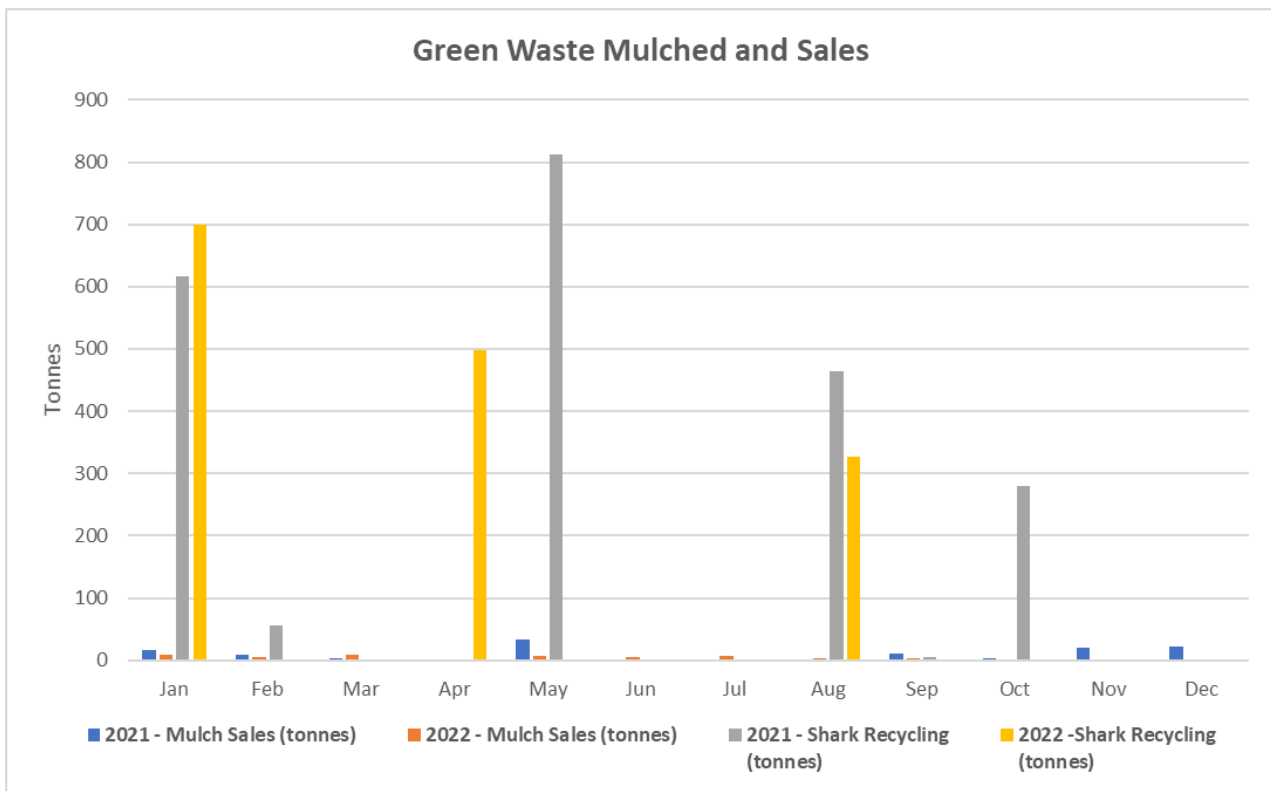
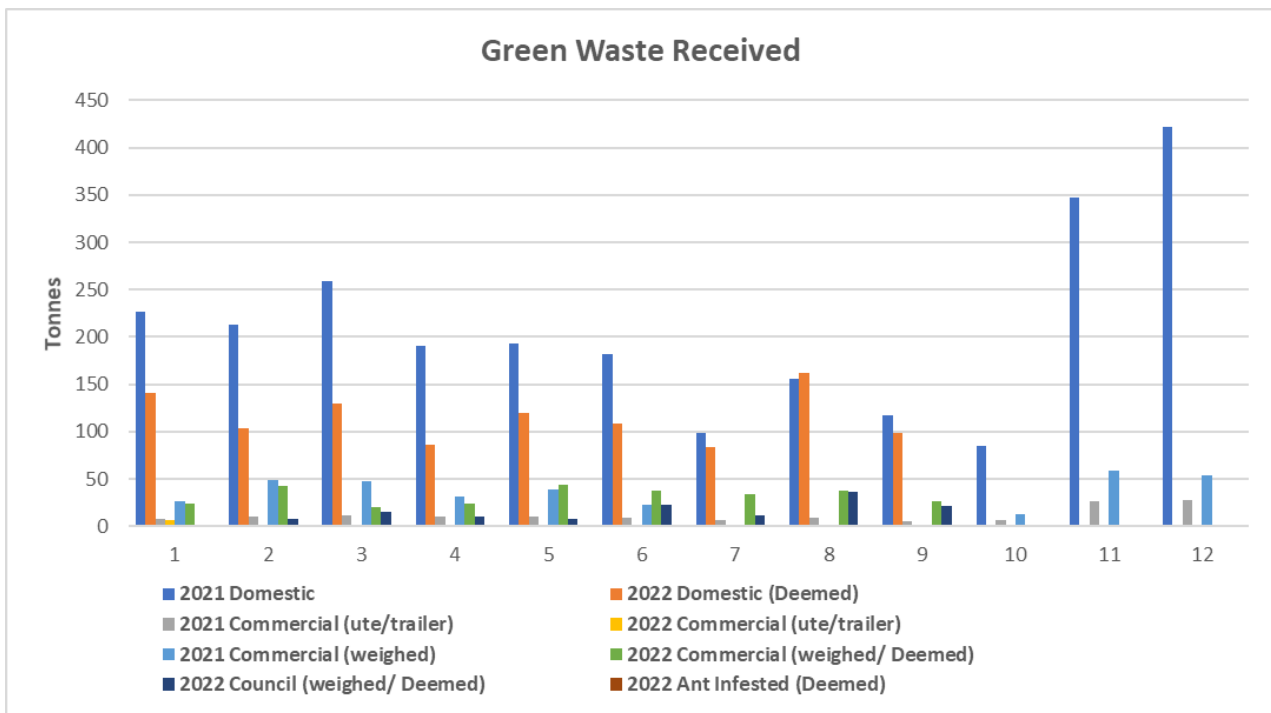
There were 0.99 tonnes of illegally dumped waste recorded through Waste Transfer Stations during the month of September.



Green Waste

Council received a total of 146 tonnes of green waste in the month of September. No mulching occurred September. Kuranda recorded 0.5 tonnes of Electric Ant contaminated green waste in September.

Free Green Domestic Waste days are now four (4) times a year instead of the three (3). The next scheduled Free Green Domestic Waste days will occur early December.



RISK IMPLICATIONS

Environmental

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

LEGAL/COMPLIANCE/POLICY IMPLICATIONS

Nil

FINANCIAL AND RESOURCE IMPLICATIONS***Capital***

Nil

Operating

Nil

LINK TO CORPORATE PLAN

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

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

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

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

IMPLEMENTATION/COMMUNICATION

Nil

9.8 INFRASTRUCTURE SERVICES, WORKS SECTION ACTIVITY REPORT - SEPTEMBER 2022**Date Prepared:** 14 October 2022**Author:** Manager Works**Attachments:** Nil**EXECUTIVE SUMMARY**

The purpose of this report is to summarise Council's Transport Infrastructure, Parks and Gardens and Land Protection operational activities undertaken by Infrastructure Services during the month of September 2022.

RECOMMENDATION

That Council receives the Infrastructure Services, Works Progress Report for the month of September 2022.

BACKGROUND**Transport Infrastructure**Road Maintenance Activities

Unsealed roads graded in September were as follows;

Road Name	Location
Steggles Hatchery Road	Mareeba
Horan Street	Mareeba
Brooks Road	Paddy's Green
Rains Road	Paddy's Green
Hawkins Road	Paddy's Green
Beh Road	Paddy's Green
Cetinich Road	Paddy's Green
Fassio Road	Paddy's Green
Clohesy River Road	Koah
Cedar Park Road	Koah
Fantin Road	Koah
Two Chain Road	Koah
Wright Road	Koah
Mount Mulligan Road	Dimbulah

Other maintenance activities during the month of September include:

- Kuranda/Speewah/Koah
 - Tree removal
 - Slashing
 - Footpath repair
 - Unsealed road repair
 - Signage repairs and replacement

- Resealing preparation works
- Mt Molloy/Julatten
 - Tree trimming
 - Road furniture replacement
 - Slashing
 - Unsealed road repair
 - Bitumen patching
 - Resealing preparation works
- Mareeba Area
 - Illegal dumping pickup and removal
 - Bitumen patching
 - Herbicide spraying
 - Resealing preparation works

Customer Requests

During the month of September, the Works Group received 69 Customer Requests (CRs) with 106 resolved (resolved requests include those received prior to September 2022). The table below shows the number of requests lodged per Works Section for the month.

It should be noted that the customer requests for the RMPC is now to be reported separately.

Month	Roads	Parks and Gardens	Pest Management	RMPC
September	49	15	5	0

At the time of reporting, the Works Group had 50 open requests.

Bridges and Major Culverts

In September, the bridge crew continued the construction of the Davies Creek bridge on Kanervo Road to upgrade the existing timber superstructure to a concrete superstructure. For the next month minimal inspection and routine maintenance works will be carried out on Council bridges and major culverts (emergency excepted) whilst the upgrade takes place.

TMR Routine Maintenance Performance Contract (RMPC)

- Burke Developmental Road
 - Medium formation grading continued between Gamboola and the shire boundary
- Mossman - Mt Molloy Road
 - Tree trimming continued on the Rex Range to assist cane carting operations.
- Mulligan Highway
 - Major pavement repairs approximately 1km north of Rifle Creek, Mt Molloy
- Additional litter collection services were again required at several rest areas and truck stops to remove residential refuse reported at the sites.



Mulligan Highway Pavement Repairs

Parks and Open Spaces

During September Parks and Open Spaces crews undertook tree trimming in Mareeba parks and open spaces, particularly at the surrounds to Centenary Park. Several Council facilities had garden refurbishments and the nursery at the Kowa Street Depot was cleaned out and made ready for the storage of the proposed low maintenance vegetation to be planted at various locations in Mareeba as part of the Parks and Open Spaces Efficiency Program.

Other points of note for the Parks and Gardens Section during August were:

- Seven (7) burials - Mareeba Cemetery
- One (1) burial - Kuranda Cemetery
- Irrigation repairs at both the Mareeba Cemetery and the Pioneer Cemetery
- Sporting field maintenance and presentation
- Town entrance sign maintenance

Land Protection

Parthenium Weed: Inspections carried out on 12 sites. All landholders are complying with their biosecurity obligation.

Emu Creek Multi Weeds: Work has continued along Emu Creek in the Walsh River catchment targeting Bellyache bush, Physic nut and rubber vine.

Physic nut is from the *Jatropha* species and is a declared pest for several reasons, principally their toxicity to stock and humans, their invasiveness, and their ability to form dense stands that replace desirable plants in disturbed land and natural habitats.

There is currently a lot of publicity (particularly on the internet) regarding the use of oil from the fruits of *Jatropha* species as a source of biodiesel. Physic nut is the species most commonly promoted on websites and elsewhere for biodiesel production.

Mapping of pest weeds in MSC area: Land Protection officers have been trialling a mapping system using offline mapping with good results (arcgis). Staff have been mapping council roads of any pest weeds to gain a more accurate database of weed infestations for future reference.

Chillagoe Township Chinee Apple: Two (2) Land Protection Officers spent three (3) days treating and mapping Chinee Apple in Chillagoe township on council roads and reserves, a total of 216 Chinee Apple, two (2) rubber vine and three (3) Parkinsonia plants were treated.

Wild dogs: 1080 baiting has been carried out on three (3) cattle properties on the lower Walsh and Mitchell Rivers totalling 597,000 Ha of land.

Rabbits: A release of the new Calicivirus was carried out on rabbit populations in the Irvinebank and Mareeba areas.

FINANCIAL AND RESOURCE IMPLICATIONS

Operating

All operational works are funded by the section specific 2022/23 maintenance budgets.

LINK TO CORPORATE PLAN

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

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

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

IMPLEMENTATION/COMMUNICATION

Nil