

9.2 INFRASTRUCTURE SERVICES, CAPITAL WORKS MONTHLY REPORT - DECEMBER 2021

Date Prepared: 7 January 2022

Author: Director Infrastructure Services

Attachments:

1. Capital Works Highlights - December 2021
2. Capital Works Summary - December 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 November 2021.

RECOMMENDATION

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

BACKGROUND

Council's Capital Works program is focussed on renewal and upgrade of Council infrastructure to achieve Council's corporate vision of "A growing, confident and sustainable Shire". The program is funded through a combination of Council's own funding and external grants and subsidies.

RISK IMPLICATIONS**Financial**

The capital works program is tracking within budget.

Infrastructure and Assets

Projects included in the current capital works program were identified through Council's Project Prioritisation Tool (PPT) which uses a risk-based, multi-criteria approach to rank projects in order of priority. The PPT is aligned with Council's Long-Term Financial Plan and Asset Management sub-plans, which focus of renewal of existing assets.

FINANCIAL AND RESOURCE IMPLICATIONS***Capital***

All capital works are listed in and funded by the 2021/22 Capital Works Program.

LINK TO CORPORATE PLAN

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

IMPLEMENTATION/COMMUNICATION

Nil

Infrastructure Services Capital Works Report Project Highlights - December 2021



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

Program: Rural Roads

Background

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

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

Scope of Works

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

Progress Update

The pavement rehabilitation and widening activities commenced in October 2021 and works are now substantially complete, despite rain in November and December and lack of quarry trucks during the works. Stabilising was completed in early December and bitumen sealing was completed before the Christmas shut down. Line marking will be undertaken in January/February, weather permitting.



Before



Bitumen Sealing (2nd Coat)



Completion

Infrastructure Services Capital Works Report Project Highlights - December 2021



Project Name: Palm Valley Road, Koah - Widen and Seal

Program: Rural Roads

Background

Palm Valley Road in Koah has been subject to edge wear and edge drop as a result of increased traffic in the area. Funding was allocated in the 2021/22 Capital Works program for widening and sealing the length of the road to provide safer access. The project is jointly funded through the Australian Government's Roads to Recovery program and Council.

Scope of Works

The scope of works includes the widening and sealing the full length of Palm Valley Road to 8m from the Koah Road intersection to the Kennedy Highway intersection.

Progress Update

Works commenced in early November and the project is now substantially complete, with bitumen sealing undertaken ahead of schedule on 17 December. Line marking will be undertaken in January/February, weather permitting.



Before



Bitumen sealing (2nd coat)



Completion

Infrastructure Services Capital Works Report Project Highlights - December 2021



Project Name: Rankin Street Footpath Renewal

Program: Footpaths

Background

An allocation has been provided in the 2021/22 Capital Works Program to a section of footpath along Rankin Street from Byrnes Street to Chewko Road. The footpath serves as the major pedestrian route connecting the western part of Mareeba, including the High School and sporting facilities, to the Mareeba CBD.

The existing footpath was generally narrow and was uneven in sections. The renewed footpath will ensure continued safe pedestrian access along this route.

Scope of Works

The scope of works includes replacement of the existing footpath with a new, 2-metre wide reinforced concrete footpath.

Progress Update

Work commenced in mid-December at the start of the school holidays and was completed prior to the Christmas break.



Before



During Construction



Completion

Infrastructure Services Capital Works Report Project Highlights - December 2021



Project Name: Dimbulah Shire Hall Park Irrigation Upgrade

Program: Parks and Gardens

Background

Funding has been allocated through the Australian Government's Local Roads and Community Infrastructure Program to install a new automated irrigation system to the Dimbulah Shire Hall Park to replace the existing manual irrigation system.

The new irrigation system will enable more reliable and efficient watering with less disruption to community use of the park by enabling irrigation to be programmed to occur outside staff working hours.

Scope of Works

The scope of works includes the installation of automated irrigation to the grassed areas surrounding the Shire Hall and playground.

Progress Update

Work commenced in mid-December and was completed prior to the Christmas break with minimal disruption to park users.



Installation



Completion

Infrastructure Services Capital Works Report Project Highlights - December 2021



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

Program: Water

Background

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

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

Scope of Works

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

Progress Update

Works commenced in mid-October with an estimated four (4) month construction program, weather dependent. The contractor completed the section of water main along Barang Street to the Arara Street intersection prior to closing down for the Christmas break and will then return to site on 10 January 2022 to finalise works by late January/early February, weather permitting.



Reinstatement of road surfacing following water main installation

Infrastructure Services Capital Works Report Project Highlights - December 2021



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

Following the tender being awarded in August 2021, the contractor mobilised to site and has commenced preliminary works. Major works will commence in January/February, weather permitting and take approximately eight (8) months to complete.



Contractor mobilised to site



Infrastructure Services Capital Works Summary Report December 2021

Project Description	Project Stage	Progress Comment
Program: 01 Rural and Urban Roads Reseal Program (Renewal)		
2021/22 Reseal & Asphalt Program	Construction	Preparation works on proposed resealed roads have commenced. Traffic data sent to Pioneer NQ for seal design purposes. Reseal works programmed for April 2022, weather permitting
RD-05 Betterment Co-Contribution	Not Commenced	Funding set aside for potential projects arising from 2021/22 DRFA events and as complimentary expenditure for approved REPA projects to ensure 'value for money' outcomes are achieved.
Program: 02 Gravel Resheet		
2021/22 Gravel Resheet Program	Construction	Resheeted sections of Grievson & Kanervo Roads completed in December with material milled out of the Palm Valley Road widening & sealing project. Further projects to be determined.
Program: 03 Urban Streets		
R2R Reynolds Street, Mareeba - Replace Kerb and Channel	Design	Roadworks and kerbing programmed for early May 2022. Sections of ageing water main are being replaced under the AC water main replacement program from mid-December.
Program: 04 Rural Roads		
TIDS Euluma Creek Road, Julatten Ch 7.01-9.325 Rehabilitate and Widen 3 sections within chainage	Construction	Temporary pavement repairs carried out prior to wet season. Culvert extensions & clearing & grubbing complete. Additional funding received from TIDS to allow for original scope of works to be completed. Project will recommence when weather permits.
TIDS Euluma Creek Road, Julatten Ch 9.350-10.130 rehabilitate & widen 3 sections within chainage	Design	Funding no longer split over two (2) financial years. Project will be delivered as part of 2022/23 Capital Works Program.
R2R Wolfram Road, Dimbulah Priority Sections Stage 2	Procurement	Construction programmed to start late January, weather permitting. Quotations called and awarded.
R2R Palm Valley Road, Koah - Widen and Seal Ch 0.00-1.30	Construction	Bitumen sealed 17 December 2021. Line marking programmed for late January, weather permitting.
Borzi Road, Mareeba - Widen and Seal Ch 0.03-0.67	Design	Programmed for construction July to October 2022.
TIDS Euluma Creek Road, Julatten Ch 5.565-6.343 Rehabilitate and Widen	Construction	Bitumen sealed 17 December 2021. Line marking installation late January, weather permitting. Additional funding received from TIDS to assist with cost overrun.
Fallon Road, Kuranda - Rehabilitate Pavement Ch 0.874 - 0.948	Planning	On hold as two (2) sites submitted to QRA for DRFA funding consideration. Awaiting advice from QRA.
Program: 05 Bridges		
BRP Davies Creek Road Bridge Replacement	Design	Programmed for construction April/May 2022.
Granite Creek, Mareeba - Replace Footbridge Deck (Eales Park)	Design	Structural engineer has carried out site inspection & will provide details of required construction upgrade soon.
Palm Close, Mareeba - Replace Footbridge Boards	Design	Structural engineer has carried out site inspection & will provide details of required construction upgrade soon.
Bicentennial Lakes Footbridge Safety Upgrade	Not Commenced	Project on hold - potential for the full area to be upgraded under Parks & Open Spaces Strategy.
Kanervo Road, Replace Timber Bridge over Davies Creek	Construction	Girder fabrication completed. Commencement of bridge deck removal and replacement will depend on weather conditions and creek heights. Milestone 1 report submitted & progress payment received.
Program: 06 Drainage		
RR-02 2021/22 Minor Culvert and Causeways Renewal	Construction	No culvert or causeway renewals undertaken in November. Further works to be programmed.
Amaroo Mareeba - Drainage Upgrade Stage 2 of 3 - Karobean Drive to Yarabee Close (300m)	Design	Stage 2 section has been cleared and has been surveyed for design. Construction currently programmed for June / July 2022.
Program: 08 Parking		
Borzi Park, Mareeba - Carparking Masterplan	Planning	Scoping out potential options, investigations and concept layouts to be developed for consideration February/March 2022.
Program: 09 Footpaths		
2021/22 Footpath Renewal Program	Not Commenced	To be programmed.
Basalt Gully Stewart Street, Mareeba Footpath Renewal	Construction	Major works completed November 2021. A new switchback link to Stewart Street and connection to picnic shelter will be completed in 2022 following completion of survey and design

Infrastructure Services Capital Works Summary Report - December 2021

Project Description	Project Stage	Progress Comment
Rankin Street, Mareeba - Footpath Renewal (Chewko Byrnes)	Procurement	Footpath completed. Two (2) driveway crossovers & small concrete infill adjacent to Strattman St to be installed during January.
Program: 10 Parks and Gardens		
Mary Andrews Park, Mareeba - Replace Exercise Equipment	Procurement	Tentatively programmed for installation 3rd week of January, pending supplier travel restrictions and weather permitting.
2021/22 Park Entrance Sign Renewal Program	Procurement	Signs delivered mid-December. Installation will occur during January weather permitting.
Dimbulah Parks Irrigation Upgrades	Completed	Completed December 2021.
Program: 11 Water		
LER / LRCIP2 Chillagoe Bore & Water Main Construction	Construction	Bore and pipeline commissioned by auxiliary (generator) power. Awaiting Ergon to connect power which is scheduled for 20 January 2022.
Warril Drive, Kuranda - Water Main Replacement	Completed	Completed December 2021.
W4Q4 Barang Street, Kuranda - Water Main Upgrade	Construction	Most of the major pipeline works are done with service connections and road reinstatement to be done during January.
Mareeba Transfer Holding Lagoon New Spare Pump	Completed	Pump received December 2021.
W4Q4 Mareeba AC & Defunct Pipe Replacement 2.5km	Construction	Reynolds St water main underway. Contractor engaged for Mareeba north advises they will mobilise to site 27 January. Under bore works scheduled to commence early February.
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. Planning on other areas underway.
Mareeba WTP Study and potential upgrade of wastewater system to improve supernatant quality	Planning	This project will be delayed due to ongoing COVID impacts affecting the ability of City Water Technologies to travel to site.
Mareeba Water Treatment Plant - 5ML Reservoir Roof Replacement	Completed	Following inspection of the underside of the reservoir roof whilst it was emptied, drain valves changed. Roof hasn't decayed any further since it was last looked at a few years ago. Project to be deferred and planning to commence for a new 10ML reservoir in future years.
2021/22 Hydrant Renewal Program	Completed	Completed in December 2021. Further works to be programmed as rolling program for future years.
Mareeba Water Treatment Plant Filtration Upgrade	Not Commenced	BOR Grant application being submitted for this project.
Mareeba and Kuranda Water Treatment Plant - Staged start-up of raw water pumps upgrade	Design	Project intent to potentially list as upgrades at the water plant and submit as a grant funded project.
Mareeba Water Treatment Plant - Filter 3 Install dedicated backwash pumps and reconfigure wash water feed pipes	Not Commenced	Project on hold pending outcome of BOR 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 Technologies for the implementation of this project, in conjunction with the new backwash system they are designing if grant funding is not successful.
Chillagoe Water Treatment Plant Filter Cell	Construction	Awaiting final parts to complete the works, once equipment arrives it will be installed.
Program: 12 Wastewater		
Kuranda Wastewater Treatment Plant - Replace Sludge Conveyor Belts	Procurement	Belts for the conveyor will need to be custom made and officers are liaising with suppliers.
Telemetry/SCADA Upgrades.	Procurement	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	The supplier has advised that new generators should arrive by March 2022.
2021/22 Mareeba Sewer CCTV & Relining Program	Construction	Relining Solutions have several crews working in Mareeba at present and project works are on schedule.
2021/22 Mareeba Wastewater Treatment Plant Component Renewals	Procurement	Purchase orders issued for quoted goods. Potential long lead times on delivery of some items.

Infrastructure Services Capital Works Summary Report - December 2021

Project Description	Project Stage	Progress Comment
Granite Creek, Mareeba Sewerage Pump Station Refurbishment	Construction	Contractor re-establishing to site in early January.
2021/22 Mareeba Pump Station Magflow Install Program	Planning	Prioritising pump stations for flow meter requirements.
2021/22 Mareeba Wastewater Reticulation Pump Renewal	Construction	Currently assessing which SPS pumps require replacement, with one pump being replaced to date.
Minor Sewerage Pump Stations H2S protection and refurbishment.	Construction	Preliminary works commenced late 2021 with major works planned for early 2022.
Mareeba Wastewater Treatment Plant - Aeration diffusers replacement (every 5 years)	Construction	Equipment has arrived and arrangements will be made for installation in 2022 after wet season.
Mareeba Gravity Sewer Main installation from Cedric Davies to Lifestyle Sewerage Pump Station	Construction	Works will commence once weather permits, contractor advised most likely to be week beginning 24 January.
Program: 13 Waste		
Kuranda Waste Transfer Station Weighbridge & Gatehouse	Construction	Supplier advised that weigh bridge to be on site week beginning 24 January for installation, weather permitting. Delays due to COVID impacts and weather.
2021/22 Mareeba Waste Facility - Leachate Pump Station Pump Replacement (Annual replacement rolling program)	Construction	Works are underway and there is a need to replace some of the leachate lines due to deterioration.
2021/22 Mareeba Waste Facility - Leachate Sump Pump Replacement	Completed	Completed December 2021.
Mareeba Waste Facility - Buy Back Shop Construction	Procurement	Development application approved and December. Shed construction commenced with slab poured in late December.
Mareeba Waste Facility - Design for New Landfill Cells	Procurement	New cell design underway, consultant working in conjunction with Council officers and work expected to be completed by early to mid-2022.
Program: 15 Fleet		
Fleet Replacement #1336 - LLOs Dual Cab Ute	Procurement	Purchase Order raised 10 September 2021: Anticipated delivery February 2022
Fleet Replacement #676 - Civil Works Truck	Procurement	Purchase Order raised 4 August 2021: Anticipated delivery is February 2022
Fleet Replacement #1317 - Western Roads Landcruiser	Procurement	Purchase Order raised 4 August 2021: anticipated delivery is April 2022
Fleet Replacement #4009 Toro 72" Mower	Procurement	Machine was delivered early December 2021. Final stage of fit out, machine will be in service early January 2022.
Fleet Replacement #509 Backhoe	Procurement	Purchase Order raised 19 August 2021: anticipated delivery is April 2022
Fleet Replacement #1250 - Water and Waste Hilux	Procurement	New Vehicle delivered 15 December 2021. Vehicle to be fitted out with toolboxes, completion mid-January 2022.
Fleet Replacement #1251 - Water and Waste Hilux	Procurement	Project to be finalised January 2022.
Fleet Replacement #4055 - Kubota 72" Front Deck	Procurement	Purchase Order raised 21 July 2021; anticipated delivery is January 2022
Fleet Replacement #4053 - Husqvarna Zero Turn	Procurement	Purchase Order raised 26 October 2021: anticipated delivery March 2022.
Fleet Refurbishment #400 - Cat Excavator (Track)	Procurement	Work commenced in December and to be completed in January.
Fleet Refurbishment Truck Mounted Water Tank	Planning	Works programmed for January during wet season.
GPS Vehicle Management System	Planning	Potential system and fleet to be fitted under assessment.
Replace Unit 5432 Sewerage Jet Rodder trailer with a hydro vac truck	Procurement	Monitoring auctions and will procure when suitable plant identified.
Fleet Purchase 3 x Portable Traffic Lights	Procurement	Received December 2021 and to be deployed in January.
Program: 16 Depots and Council Offices		
Kowa Street, MSC Depot - Air conditioning Replacement	Construction	Changeover occurred in Christmas break. Control unit and some missing tiles need to be completed to finalise the works.
Rankin Street, MSC Office - Internal and External Refurbishment	Planning	Procurement to commence in early 2022.
Kowa Street, MSC Depot - Emergency Generator	Planning	Size and location of generator/s needed under assessment.
Program: 17 Community Buildings		
Dimbulah / Mareeba / Kuranda Pools Chlorine Dosing Improvements	Planning	Procurement to commence in early 2022.
Mareeba Leagues Club Grandstand Refurbishment	Procurement	No quotations received, will call quotes again in late January 2022, for works completion by end of financial year.
Mareeba PCYC Shire Hall Part Roof Replacement (Partial roof replacement)	Design	Heritage exemption approval received from DES with conditions. Project will be tendered early 2022 with works to be completed prior to end of financial year.

Infrastructure Services Capital Works Summary Report - December 2021

Project Description	Project Stage	Progress Comment
2021/22 Shire-wide Ablution Refurbishment Program	Construction	Mount Molloy Septic programmed for 17-18 January 2022. Dimbulah Tennis Court Toilets to be inspected to ensure all works completed.
Koah Tennis Court - Remove/replace the unstable timber light poles (with metal poles and caged footings within concrete)	Planning	Quotes to be call, works to be completed May/June 2022 after wet season.
Mareeba, Dimbulah and Kuranda Aquatic Facilities - Remote monitoring upgrade for all swimming pools	Construction	On hold.
Kuranda SES Facilities Upgrade	Construction	Works progressing well, approvals received for locating the sand box from QAS.
Program: 18 Non-Infrastructure Items		
DRFA Flood Warning Infrastructure Network MbaSC.0016.1819E.FWI - River Gauge (Biboohra)	Design	Site investigations conducted November 2021. Works to commence March - April 2022.
DRFA Flood Warning Infrastructure Network MbaSC.0018.1819E.FWI - Rain Gauge (7 locations)	Design	Site investigations conducted November 2021. Works to commence March - April 2022.
Kuranda New Cemetery	Planning	Draft masterplan received and under review.
Program: 20 KIAC		
KIAC - New Wayfinding Signage	Construction	Supplier has visited the depot and accepted that there is defective works with the signs received that require remediation. Confirmation on process/timing for completion of remediation now underway.

9.3 INFRASTRUCTURE SERVICES, TECHNICAL SERVICES OPERATIONS REPORT - DECEMBER 2021
--

Date Prepared: 7 January 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 December 2021.

RECOMMENDATION

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

BACKGROUND

Technical Services

Design, quality and investigations:

Investigation activities undertaken in December included:

Activity	Current Requests	Closed Requests
Road Infrastructure Review	58	51
Drainage Investigations	6	4
NHVR Permit Applications	0	22
Aerodrome Investigations	1	0
Traffic Count Surveys	0	5
Parks Investigations	3	1
Dial Before You Dig Requests	0	122

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 December:

Supplier	No. of Tests
Internal	41
External	14

Asset Inspections:

Scheduled inspections of Council's transport infrastructure assets have been undertaken during the month of December. Field inspections were directed towards culvert crossings of roads within the shire and road inspections. Work was completed towards updating data in the Maintained Road Network within the Shire with the first review being undertaken. In addition to field inspections,

work was completed towards improving data collected for the footpath, water, sewerage, roads and kerbs.

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

Operational Works and Subdivisions

To ensure ongoing compliance with development conditions, both during construction and on-maintenance, Council undertakes routine inspection and monitoring of sites. The following developments remain current:

Locality	Subdivisions Name	Status
Mareeba	Amaroo Stage 12	Under construction
Koah	123 Fantin Road (Two Chain Road)	Under construction
Mareeba	Kenneally Estate Stage 4	On-maintenance
Mareeba	The Edge Stage 3	On-maintenance
Mareeba	The Edge Stage 3A	On-maintenance
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

Disaster Recovery Funding Arrangements (DRFA)

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

Program	Status
2021 DRFA Program General	Mareeba Shire activated DRFA assistance measures linked to Tropical Cyclone Imogen and associated low pressure system that occurred 2 – 12 January 2021. A consultant has been engaged to assist with delivery of the 2021 DRFA Program. Betterment projects are to be identified and submitted in future funding rounds.
2021 DRFA REPA Program	High priority sites have been awarded to successful contractors, following notification from QRA of eligible activities, with the majority of sites now complete. Council at its Ordinary Meeting, 15 December 2021, endorsed award of the REPA Contracts on condition of endorsement by QRA.
2019 DRFA	Gamboola Crossing remains the only site not yet completed. Commencement occurred in late October however rainfall within the Mitchell River Catchment has required demobilisation from site. Works will be recommenced as soon as access to the site is available.

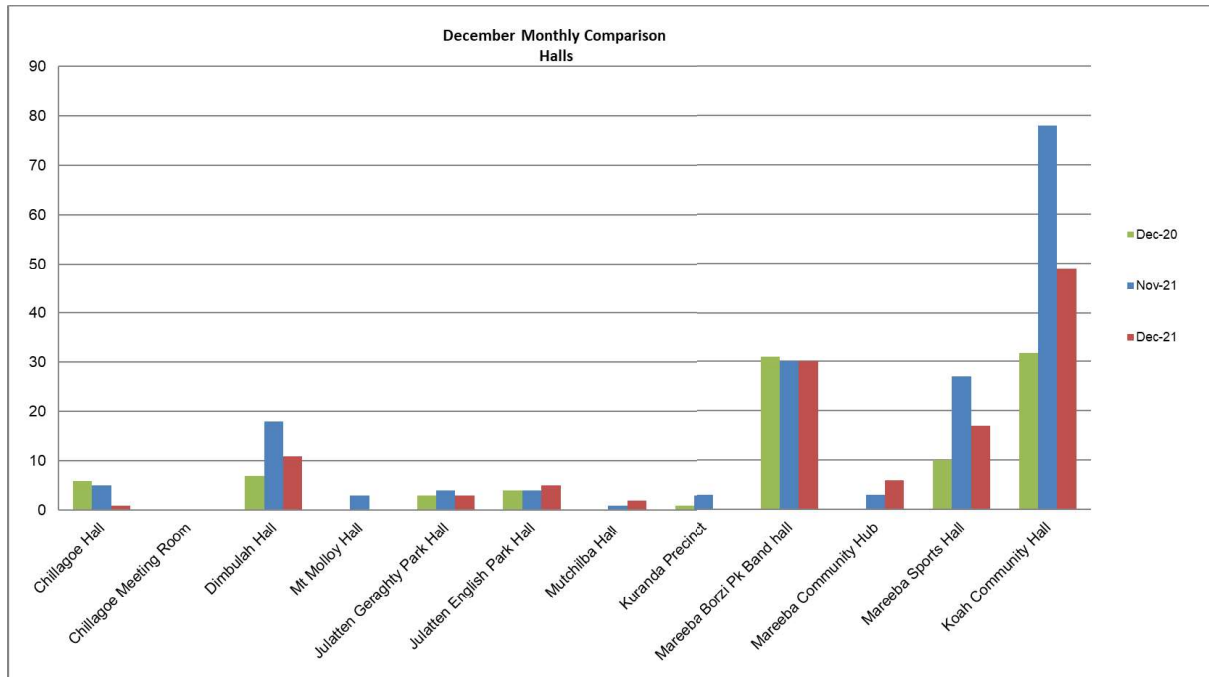
Program	Status
2019 Betterment	All sites have been physically completed.

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.

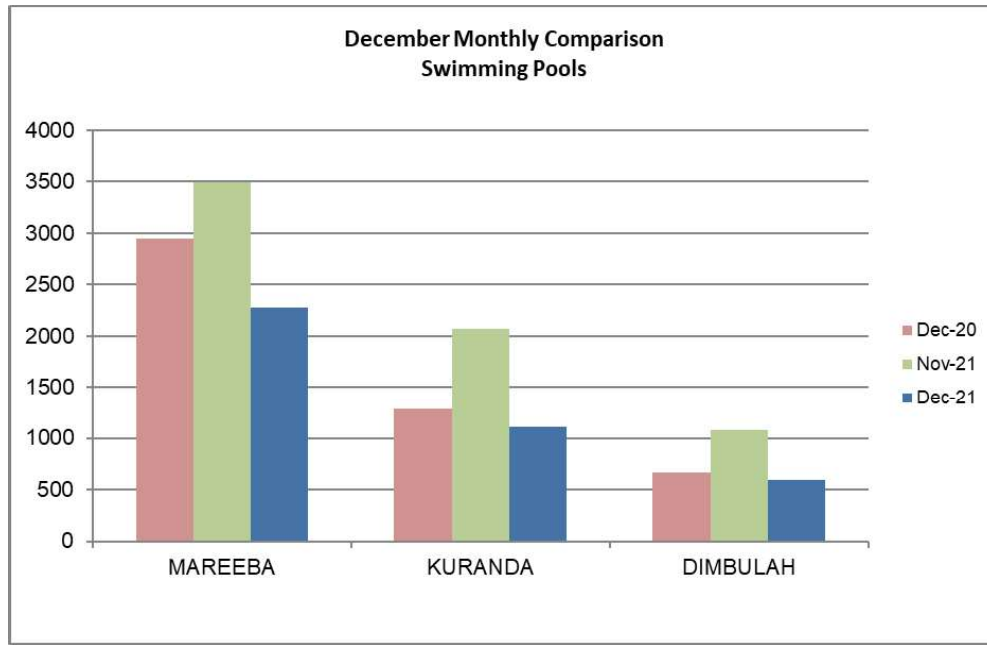
December hall hires generally increased against the previous year numbers, however the future impact of Queensland open borders / rising Covid numbers within the community is unknown.



Swimming Pools

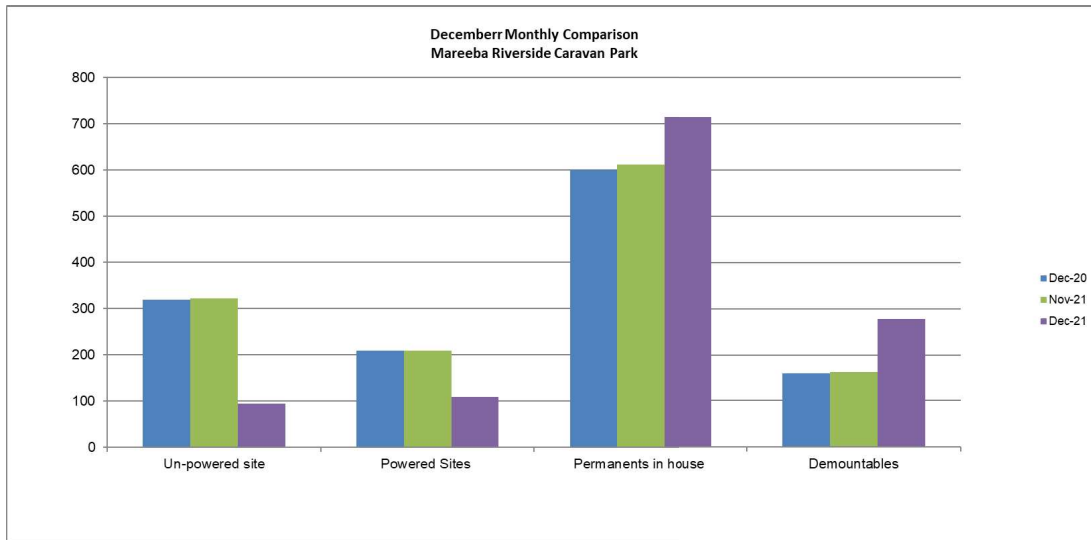
All Pools were open to the public with the new Managing Lessee undertaking a ground-up review of practices at all facilities, which has resulted in a number of proposed changes, including gate entry practices at all facilities.

Utilisation of the pools for December was down on historic and previous months numbers, which may be due to inclement weather.

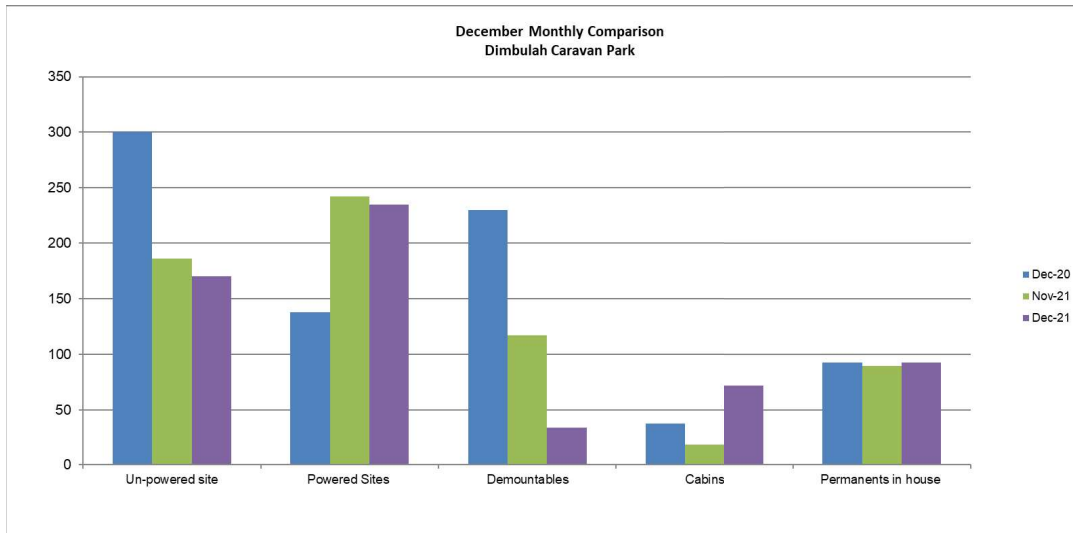


Caravan Parks:

Mareeba Riverside Caravan Park has seen a reduction in un-powered and powered sites, while permanent and demountable use has increased. This may be due to a reduction in farm workers/visitors moving on now that the Queensland Border is open.



Dimbulah Caravan Park utilisation has reduced slightly against previous months numbers which may be due to a reduction in farm workers/visitors moving on now that the Queensland Border is open.



Vandalism & Graffiti:

During December, 7 reports of vandalism/graffiti were recorded for Council facilities, with annual costs provided below;

Financial Year	Actuals	Comments
2015/16	\$ 2,134.00	<ul style="list-style-type: none"> • Mareeba CWA Toilets/restroom - vandalism and graffiti x 6 • Mareeba PCYC - vandalism x 1
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	\$20,673.92	

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

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 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.

IMPLEMENTATION/COMMUNICATION

Nil

9.7 INFRASTRUCTURE SERVICES, WATER AND WASTE OPERATIONS REPORT - DECEMBER 2021

Date Prepared: 7 January 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 December 2021.

RECOMMENDATION

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

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 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.

Water Treatment	Mareeba	Kuranda	Chillagoe	Dimbulah	Mt Molloy*
Water Plant average daily production (kL)	5,529	1,023	301	378	120
Number of Connections	4,385	982	157	272	137
Average daily water consumption per connection (L)	1,261	1,042	1,917	1,390	876

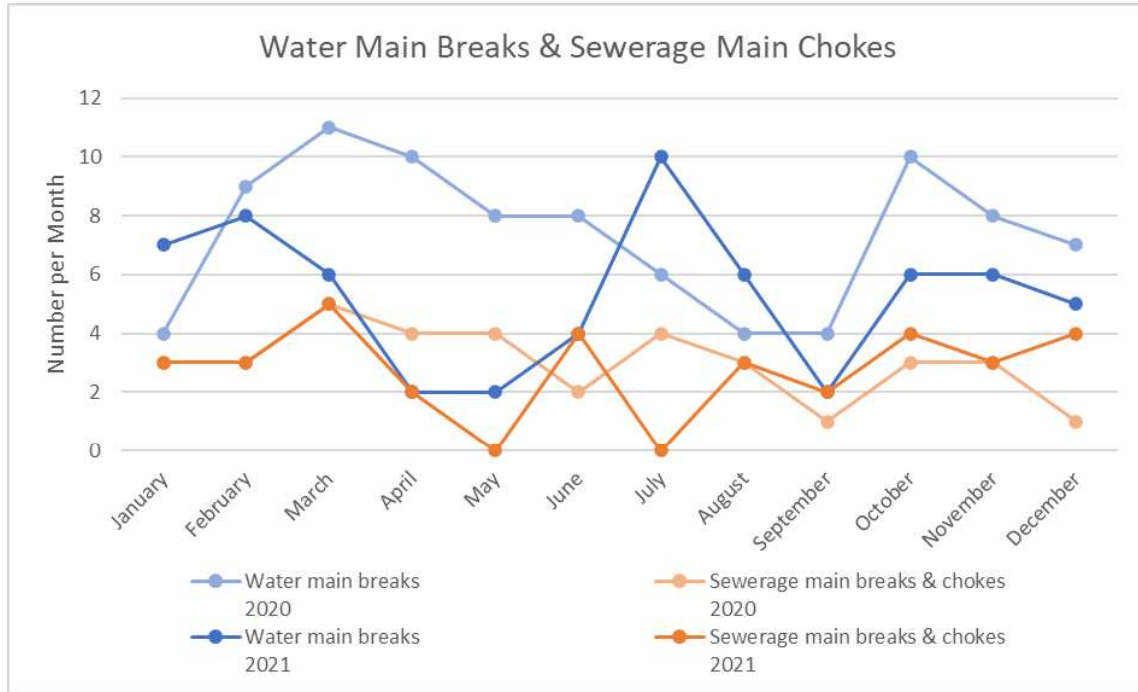
* Mt Molloy is an untreated, non-potable water supply

Wastewater Treatment	Mareeba	Kuranda
Wastewater Plant average daily treatment (kL)	2,217	233
Number of Connections	3,424	346
Average daily inflow per connection (L)	647	673

Water and Wastewater Reticulation:

Council's water reticulation crew attended to six (6) water main breaks and three (3) sewer main breaks this month, and average response times were within targets set out in Council's customer service standard for water services.

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



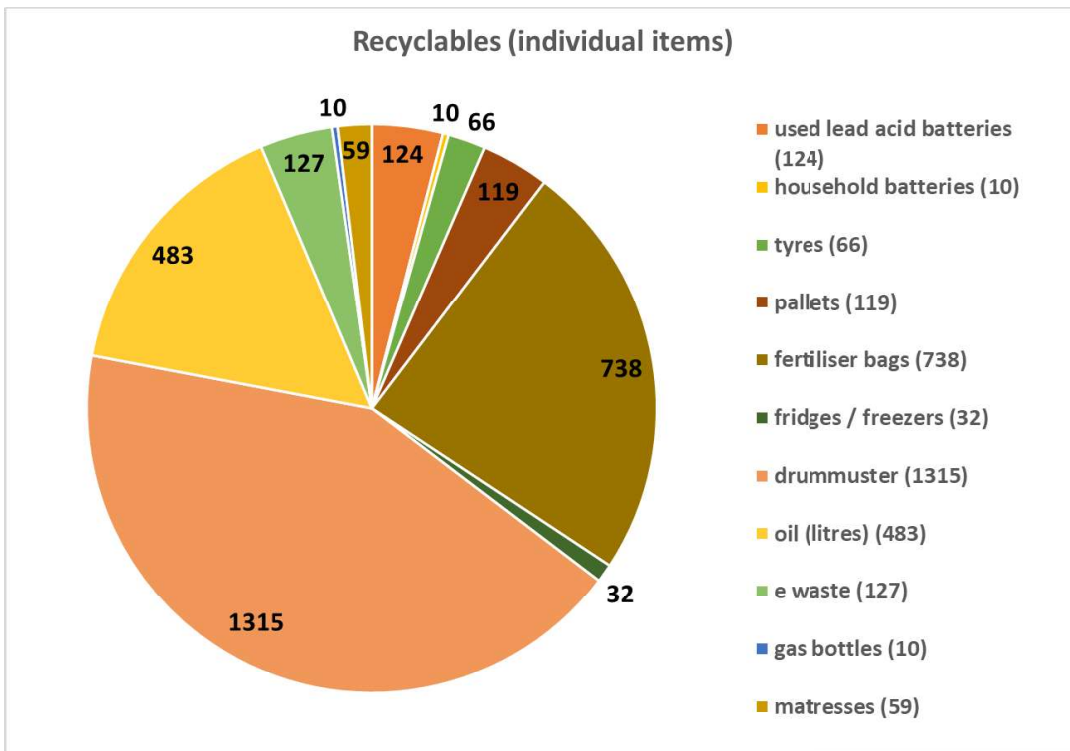
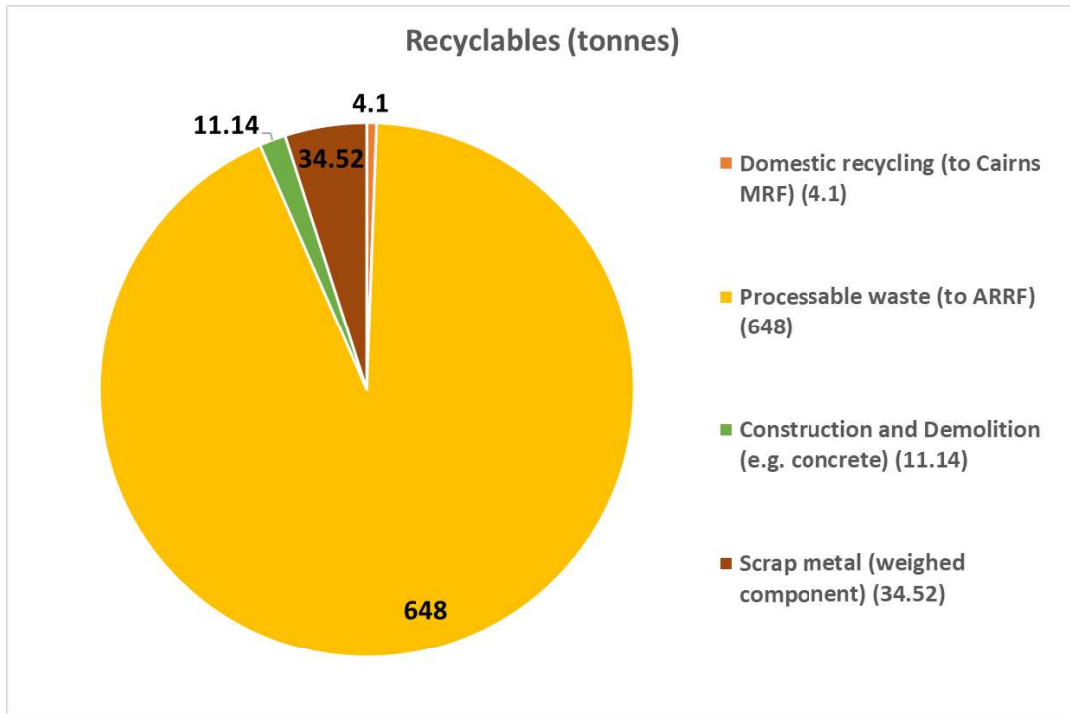
Waste Operations:

All transfer stations and Mareeba landfill are currently operational.

Recycling

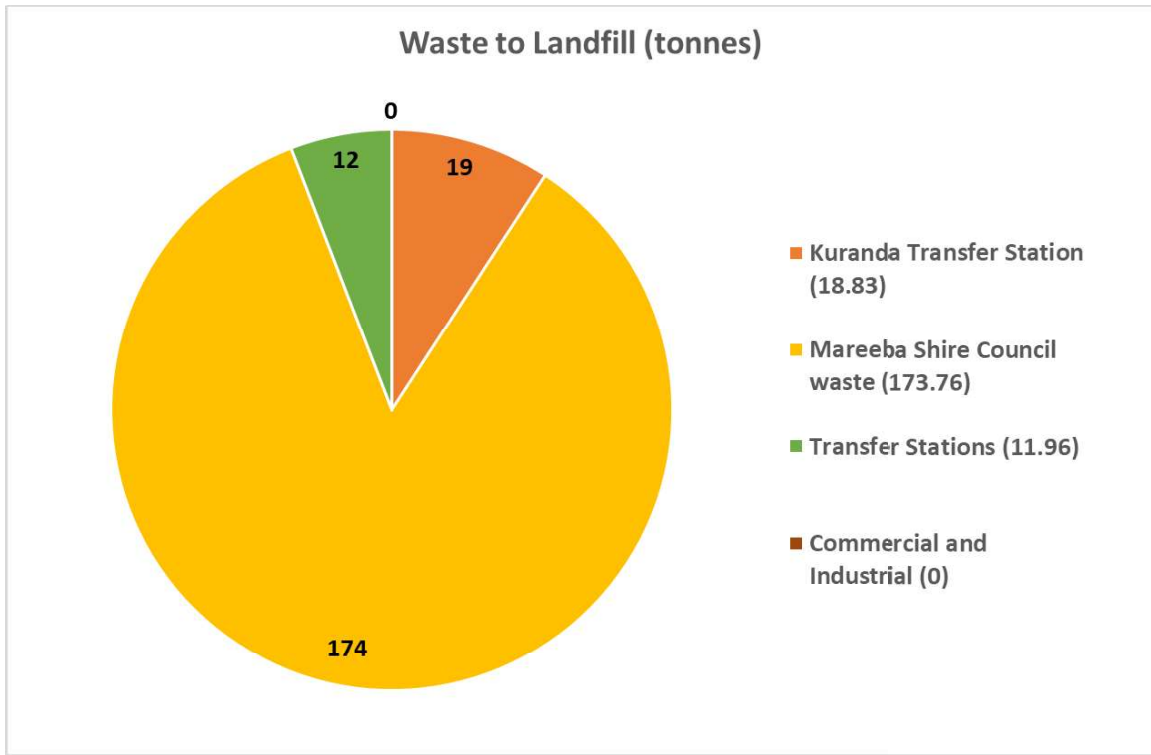
Waste material collected at each of the waste transfer stations are either deposited directly to the Mareeba landfill, recycled or transported to the SUEZ Advanced Resource Recovery Facility (ARRF) in Cairns for processing.





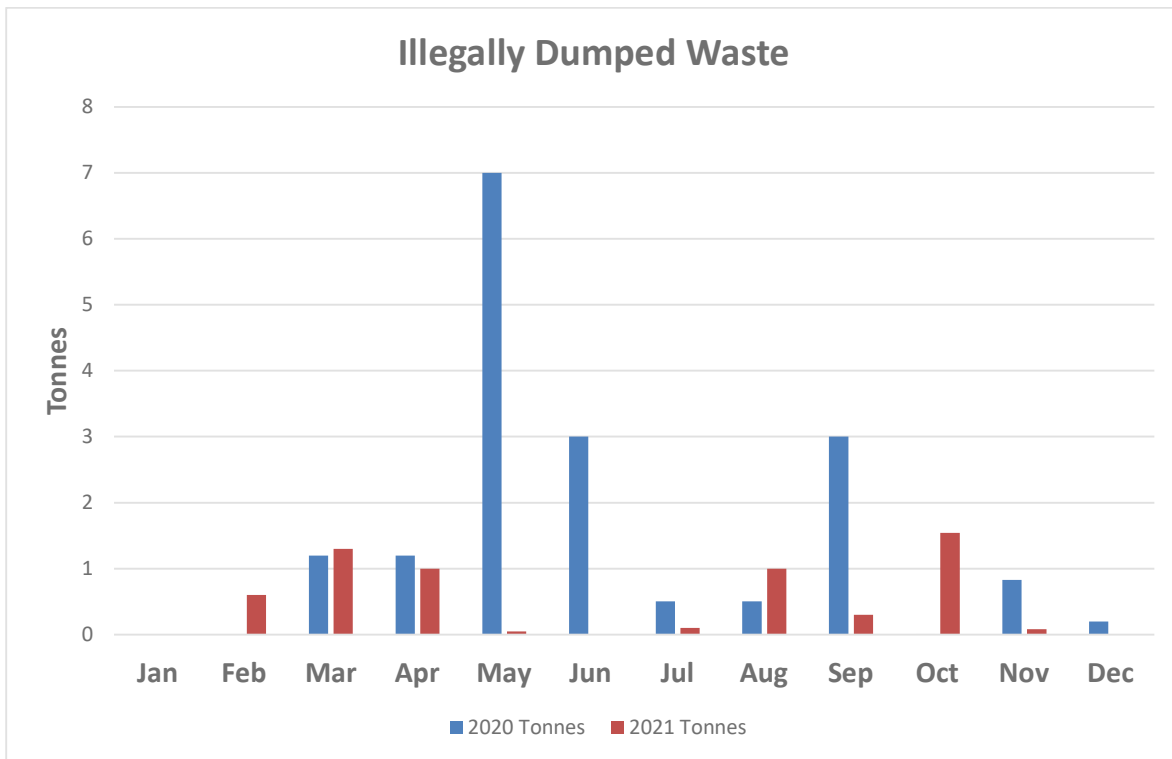
Waste to Mareeba Landfill

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



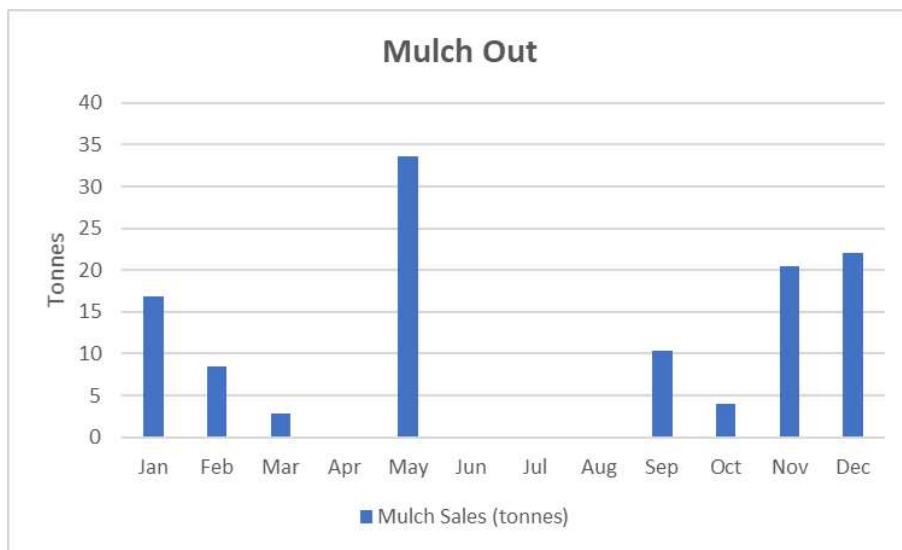
Illegally Dumped Waste

Council received a small amount of illegally waste through Mareeba Waste Transfer Station during the month of December.



Green Waste

Council received a total of 422 tonnes of green waste in the month of December. Green waste was last mulched in October and will again be mulched early and mid-January.



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 - DECEMBER 2021

Date Prepared: 10 January 2022

Author: Manager Works

Attachments: Nil

EXECUTIVE SUMMARY

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

RECOMMENDATION

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

BACKGROUND

Transport Infrastructure

Road Maintenance Activities

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

Julatten/Mt Molloy Area
Wetherby Road
McLeans Bridge Road
Hillview Road
Morrish Road
Clacherty Road

During the month, other operational activities included:

- Table drain and culvert inlet/outlet cleaning in the Kuranda area.
- Bitumen patching and isolated sealed pavement defect repairs in the Mareeba, Kuranda, Julatten, Mt Molloy Dimbulah and Speewah areas.
- Tree removal in the Kuranda, Myola, Mt Molloy, Julatten and Mareeba areas.
- Vegetation management, slashing and herbicide spraying was carried out on rural roads in the Julatten, Mt Molloy and Kuranda areas including the Mt Molloy and Mt Carbine Cemeteries ; and
- Installation of a ring road access at the drive through virus testing station at Borzi Park, Mareeba.

Customer Requests

Since the beginning of 2021, the Works Group has received 1,976 Customer Requests (CRs) with 2,034 of requests resolved (resolved requests include those received prior to 2021). 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	265	197
February 2021	203	229
March 2021	195	195
April 2021	192	172
May 2021	162	177
June 2021	165	147
July 2021	141	154
August 2021	144	161
September 2021	147	190
October 2021	119	112
November 2021	139	178
December 2021	104	122
Total	1,976	2,034

At the time of reporting, the Works Group had 74 open (unresolved) requests.

A summary of CRs Lodged and Crs Resolved since January 2014 is as follows;

Year	CRs Lodged	CRs Resolved
2014	1,425	1,269
2015	1,755	1,710
2016	1,786	1,793
2017	1,941	1,900
2018	2,168	2,048
2019	2,021	2,329
2020	1,696	1,670
2021	1,976	2,034
Total	14,768	14,753

Bridges and Major Culverts

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

Location	Area	Structure
Hoey Road	Speewah	Bridge
Barron Street	Koah	Bridge
Speewah Road	Speewah	Bridge
Seary Road	Mareeba	Major Culvert
Oak Forest Road	Kuranda	Bridge
Kowa Street	Mareeba	Major Culvert
Martin Avenue	Mareeba	Major Culvert
Tinaroo Creek Road	Mareeba	Major Culvert
Speewah Road	Speewah	Bridge
No Name Road	Koah	Bridge
Bolton Road	Koah	Bridge
Rankin Street	Mareeba	Major Culvert
Henry Hannam Drive	Mareeba	Causeway
Tinaroo Creek Road	Mareeba	Causeway
Kanervo Road	Mareeba	Bridge
Stoney Creek Road	Speewah	Bridge
Koah Road	Koah	Bridge
Bowers Street	Mareeba	Major Culvert
Kovacic Road	Mareeba	Bridge
Davies Creek Road	Mareeba	Causeway
Malone Road	Mareeba	Major Culvert
Jeffrey Road	Kuranda	Bridge
Emerald End Road	Mareeba	Major Culvert
Chewko Road	Mareeba	Major Culvert
Davies Creek Road	Mareeba	Causeway
Jennings Road	Mareeba	Bridge
Hoey Road	Speewah	Causeway
Kenneally Road	Mareeba	Major Culvert
Davies Creek Road	Mareeba	Bridge
Ray Road	Mareeba	Bridge
Ray Road	Mareeba	Major Culvert
Oak Forest Road	Kuranda	Bridge

TMR Routine Maintenance Performance Contract (RMPC)

The following are a list of activities undertaken during December as part of the RMPC on state controlled roads within the Mareeba Shire;

- Signage repair and guide post replacement on the Herberton - Petford Road,
- Vegetation control works completed on the Mossman-Mount Molloy Road,

- Shoulder grading various sections between Mt Carbine and the Desailly Range on the Mt Mulligan Highway,
- The annual Sign Replacement Program commenced on the Mareeba - Dimbulah Road and the Mossman - Mt Molloy Road. This program progressively replaces signs that have been in place for over ten years.

Parks and Open Spaces

During the month of December, Parks and Gardens staff attended to normal duties along with the addition of;

- Three (3) burials
- Installation of Christmas trees in Chillagoe, Mt Molloy, Dimbulah and Mareeba
- Installation of automated irrigation at Dimbulah Memorial Hall Park (capital project)

Land Protection

Parthinium Weed: Monthly inspections carried out on 12 sites. All landholders are complying with their bio security obligation. Officers continue to monitor all sites every three (3) weeks.

Multi Species Weeds Emu Creek/Walsh River Catchment: Work has continued along Emu Creek within the Walsh River catchment targeting two (2) Jatropha species, Rubber vine and Siam weed.

Pond Apple: Survey and removal of plants undertaken of the creeks and gully systems in the Kuranda area. An extended survey was carried out of a gully that feeds into Jumrum Creek. The survey revealed mature pond apple trees and these have now been mapped and treated.

Feral Pigs: Pig baiting was carried out on 477 Ha of sugar cane and beef cattle land in the Julatten area.

Electric Ants: Sentinel site surveillance carried out at Kuranda, Mareeba, Hickling Avenue, Mt Molloy and Julatten transfer stations with samples collected and forwarded to Queensland Bio Security.

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

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