

9 INFRASTRUCTURE SERVICES

9.1 INFRASTRUCTURE SERVICES, CAPITAL WORKS MONTHLY REPORT - JANUARY 2021

Date Prepared: 18 January 2021

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Attachments:

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

RECOMMENDATION

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

Partial funding has been secured for the upgrade of Mason Street Sewer Main through the Local Economic Recovery (LER) program for Queensland, which is jointly funded by the Commonwealth and Queensland Governments under the Disaster Recovery Funding Arrangements, with Council to co-contribute remaining costs toward the project. Allocation and timing of Council's financial contribution will be considered in a future report to Council.

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 2020/21 Capital Works Program.

LINK TO CORPORATE PLAN

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

IMPLEMENTATION/COMMUNICATION

Infrastructure Services Capital Works Report Project Highlights - January 2021



Project Name: Mareeba Pound Upgrade

Program: Community Buildings

Background

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

Scope of Works

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

Progress Update

Council engaged the services of Coburn Architecture to assist with the development of designs and tender evaluation process. Council completed the Tender process in late 2020 and the contract was awarded to a local builder, Mindil Pty Ltd. Contract documentation has been finalised and the contractor was granted possession of site on 27 January 2021 to commence works.

Site clearing has commenced, and the project is scheduled for completion ahead of the 30 June 2021 funding deadline.



Existing Pound facility



Cleared site for new pound facility

Infrastructure Services Capital Works Report Project Highlights - January 2021



Project Name: Cedric Davies Community Hub - Library and Mareeba Bowls Club

Program: Community Buildings

Background

Council is redeveloping the former Mareeba Bowls Club site to provide a new library, community hall, bowls clubhouse and covered bowling green in a combined facility to be named Cedric Davies Community Hub.

Funding has been received under the Queensland Government's Local Government Grants and Subsidies Program and Works for Queensland Program, in addition to the Australian Government's Local Roads and Community Infrastructure Program.

Scope of Works

The scope of works includes modifications to the main building and construction of a new clubhouse and synthetic covered bowling green and project is being delivered in a three-stage approach.

The first and second stages of the project involved the design and construction of an improved Bowls Clubhouse Facility and the replacement of one (1) existing lawn green with an undercover synthetic equivalent. This work was completed in late 2020

The third stage of the project is the refurbishment of the existing main building to cater for community services and training activities, a space for community events and recreational activities and provide space for a modern multi-faceted library service.

Progress Update

Stage 1 and 2 of the Project reached practical completion on 20 October 2020, with the facility currently being utilised by its members.

Stage 3 of the project commenced in January 2021 following relocation of the Bowls Club into their new facility in late 2020. The demolition stage of the works is almost complete. The works program is currently on schedule with refurbishment works due to be complete by May 2021.



Current view of the old Mareeba Bowls club Building



View of demolished area to be purposed for the new Library

Infrastructure Services Capital Works Report Project Highlights - January 2021



Project Name: Solar Power Projects

Program: Works for Queensland 4

Background

Council is installing solar panels and associated infrastructure to nine (9) Council-controlled locations across Mareeba Shire through funding under Works for Queensland:

- Dimbulah Swimming Pool
- Mareeba Swimming Pool
- Cedric Davies Community Hub
- Mareeba Sewage Treatment Plant
- Mareeba Water Treatment Plant
- Centenary Park Booster Pump
- Kuranda Water Treatment Plant
- Kuranda Aquatic Centre
- Granite Creek Pump Station

By installing solar power at these sites, Council will save significant electricity costs by transitioning around 31% of the sites' energy usage to renewable energy, thereby substantially reducing Council's carbon emissions.

Scope of Works

The scope of works includes design, supply, installation and commissioning of solar panels at the selected sites.

Progress Update

The tender was awarded to local contractor, FNQ Solar Solutions (Brad Owens Electrical) in December 2020. While wet weather presents some construction difficulties, works are progressing well.

Completed Works

Solar installations at Dimbulah Swimming Pool, Kuranda Aquatic Centre and Granite Creek Pump Station were completed in January 2020.

In Progress

The design for the new shed in Centenary Park, Mareeba to house the solar panels for the Centenary Park Booster Pump is expected to be finalised in early February. Council's Parks & Gardens staff are coordinating removal of the necessary playground equipment (slide and swings) in preparation for construction of the shed in February-March. Replacement play equipment will be installed under the shed as a separate project following completion of the solar installation.

Groundworks have commenced at Mareeba Sewage Treatment Plant. The concrete slabs are due to be poured in late February followed by installation of the solar panels in early March.

Works will commence in mid-March at Mareeba Water Treatment Plant. Brackets and the new walkways have been ordered for the water reservoir roof and installation will commence in March.

Infrastructure Services Capital Works Report Project Highlights - January 2021



Works at the Cedric Davies Community Hub will commence in late February with installation of edge protection to the roof. The contractor completing the refurbishment works for the new Community Hub will arrange installation of the new switchboard. Solar installation is planned for completion by end of March 2021.

Kuranda Water Treatment Plant will commence following the installation of the new structure over the clarifier tank in late March.

The works at the Mareeba Swimming Pool are under design following further investigation of the power supply onsite. Installation works are anticipated to commence from March-April.



Kuranda Swimming Pool



Dimbulah Swimming Pool



Granite Creek Pump Station

Infrastructure Services Capital Works Report Project Highlights - January 2021



Project Name: Barron Falls Walking Trail

Program: Kuranda Infrastructure Fund

Background

The establishment of an environmental walk connecting the Kuranda township with the Barron Falls lookout will offer visitors to Kuranda a linking trail between Jum Rum Creek Conservation Park and the Barron Gorge National Park; alleviating foot traffic on Barron Falls Road.

The project was identified as part of the Kuranda Township Infrastructure Master Plan 2010-2020 (KTIMP10-20) and is funded through levies paid by Skyrail and Kuranda Scenic Rail to the Queensland Government under the Kuranda Infrastructure Program (KIP). This program has afforded Council the opportunity to undertake numerous improvements and enhancements that maintain the character of Kuranda and conserve the natural environment while providing the necessary infrastructure to cater for the needs of increased visitor numbers.

Scope of Works

The Barron Falls Walking Trail comprises two parts, being;

- Stage 1: The link trail from the existing Kuranda Jungle Walk to the end of Weir Road, and
- Stage 2: A continuation of the trail through the Barron Gorge National Park from the end of Weir Road to the Barron Falls car park area.

Progress Update

Stage 1 - Practical completion was achieved for this section of the path on 18 December 2020 and opened for use over the Christmas - New Year period. It was subsequently closed in early January due to damage to Bridge 11 caused by a large falling tree.

Assessment of the damage has confirmed that replacement of some of the fibre-reinforced plastic (FRP) components is required. While the Council had a small quantity of surplus FRP items left over from the original installation, the majority of the replacement materials have been ordered through the manufacturer.

World Trails are also undertaking some minor defects liability works due to scouring caused by recent rain.

Stage 2 - Construction of the National Park section of the trail was completed in late December, prior to Christmas shutdown. Close-out works are being completed to comply with the conditions of the Queensland Parks and Wildlife Service (QPWS) Works Deed, but have been delayed by the inclement weather.

Officers have conducted walkthrough inspections with both Wet Tropics Management Authority (WTMA) and QPWS to facilitate acceptance and hand-over of the completed works. The contractor's surveyors will complete as-constructed survey works and it is anticipated that the walking trail will be open to the public in March.

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



Bridge 11 Damage



Bridge 7 Platypus Creek National Park Section



Infrastructure Services Capital Works Report Project Highlights - January 2021



Project Name: Chillagoe Critical Water Infrastructure Project (Reservoir Replacement)

Program: Water

Background

The purpose of the project is to replace the two (2) existing steel Chillagoe Town Drinking Water Reservoirs with a larger concrete reservoir and significantly increase the usable holding capacity from 190KL to 500KL. The higher capacity reservoir will be cyclone rated to current standards, provide adequate fire-fighting capacity and significantly increase the potential drinking water storage capacity, strengthening this remote and vulnerable community's resilience in a disaster situation.

This project is co-funded through the Queensland Government's Building our Regions (BOR) Program and the Australian Government's Building Better Regions Funding Program (BBRF).

Scope of Works

The works include demolition of the two (2) steel existing reservoirs and construction of a new concrete reinforced reservoir and all associated pipe work, electrical, SCADA and telemetry connections. Works also include clearing, site earth works, construction and testing and commissioning of the new reservoir, reinstatement, clean up and restoration of the site.

Progress Update

Civform completed the final pour of the reservoir walls on 22 January and construction of the retaining walls is due to commence mid-February. Delays resulting from wet weather have impacted the program, however works are continuing ahead of the programmed dates set out in the funding agreements.



Second reservoir wall concrete pour

Infrastructure Services Capital Works Report Project Highlights - January 2021



Project Name: Rankin Street West - Water Main Upgrade

Program: Water

Background

An allocation in the 2020/21 Capital Works Program was provided to replace failed existing asbestos cement (AC) water mains throughout the Shire. Replacement of the failed existing asbestos cement (AC), cast iron and PVC water main on Rankin Street West is being undertaken as part of this program to maintain ongoing water supply for properties on Rankin Street between Frew Street and the Chewko Road roundabout. This section of water main was identified for replacement following numerous main breaks occurring in the past few years.

Scope of Works

The scope of works includes replacement of the existing water main with Ductile Iron (DICI) pipe work, in addition to new service connections, valving and hydrants.

Due to the construction and new alignment of the water main, 280 metres of the sewer main, which is part of the Mason Road Sewer Main Upgrade Project will need to be completed simultaneously as this section of the sewer main will need to run under the water main in sections.

Progress Update

Materials and equipment have been sourced and a site yard established, with on-site works commencing from Monday, 8 February. The project will take approximately four (4) months to complete, weather permitting. Council day labour are carrying out the works with assistance from a civil contractor on the sewer main section of the works.

As most of the water main is to be installed under the road verge, traffic disruption will be minimal, and works will be staged to minimise disruption to parking and property access.

During construction of the sewer main, a manhole will be constructed in the intersection of Strattmann Street and Rankin Street requiring the southern section of Strattmann Street to be closed for a period of up to five (5) days to allow for the concrete works of the manhole construction to occur. Timing of this work is yet to be finalised and residents will be notified prior to the road closure.



Extract of construction plans for the project

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



Project Name: Fraser Road, Mt Molloy - Water Main Upgrade Project

Program: Water

Background

An allocation in the 2020/21 Capital Works Program was been provided to replace failed existing asbestos cement (AC) water mains throughout the Shire. Replacement of the Fraser Road water main is being undertaken as part of this program to maintain ongoing water supply for properties in Mount Molloy. This section of water main was identified for replacement following numerous main breaks occurring in the past few years.

Scope of Works

The scope of works included replacement of the existing water main with PVC Supermain pipe work, in addition to new service connections, valving and hydrants. The section of water main on Fraser Road between the highway and Arnold Street was replaced.

Progress Update

The upgrading of the water main upgrade works commenced early January with completion in early February. The project ran well with little or no interruptions to residents.



Installation of new water main on Fraser Rd Mt Molloy

Infrastructure Services Capital Works Report Project Highlights - January 2021



Project Name: Railway Avenue

Program: Parking

Background

Council is transforming the southern section of Railway Avenue, Mareeba and Queensland Rail land within the former freight depot to accommodate additional parking spaces, including designated parking for RV travellers.

Located in the heart of the CBD, the new parking precinct will have a free 8-hour limit, giving those who work in the CBD a choice for parking in town.

The project is jointly funded by Council and the Queensland Government's Transport and Tourism Connections Program.

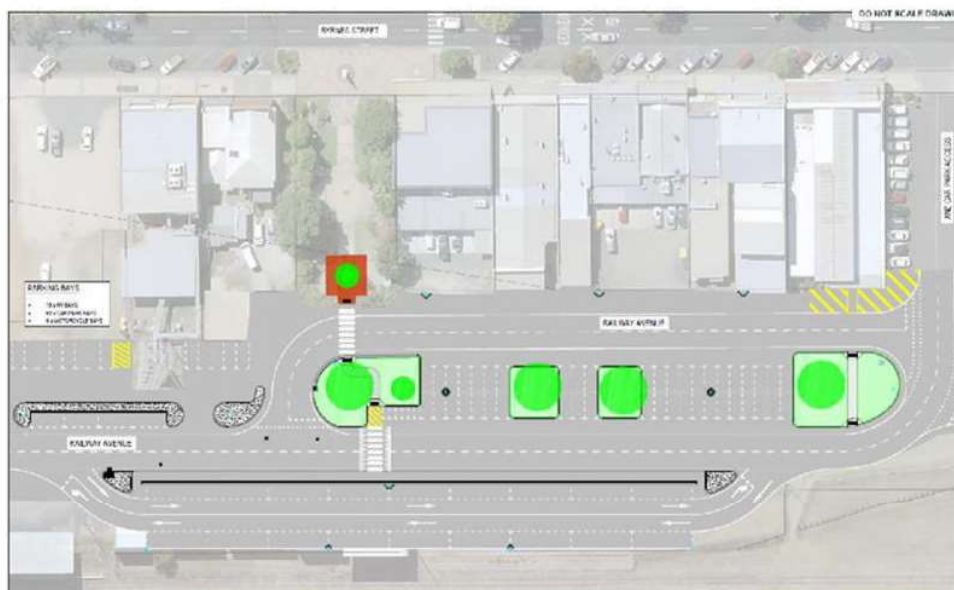
Scope of Works

The scope of works includes demolition of concrete slabs and kerbing, pavement construction, road resurfacing, kerbing and linemarking. The project will also include installing solar lights in the area to improve community safety.

Progress Update

Demolition works commenced in December 2020 with construction works to commence from mid-February. The project will take approximately three (3) months to complete.

Council will keep local businesses and the community informed throughout the project and ensure disruptions are kept to a minimum as much as possible during construction.



Concept plan for the project

Infrastructure Services Capital Works Report Project Highlights - January 2021



Project Name: 2020/21 Reseal and Asphalt Program

Program: Rural and Urban Roads

Background

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

Scope of Works

The following road sections and Council-controlled car parks have been programmed for bitumen resealing during the 2020/21 financial year:

Locality	Road Name	Start Chainage (m)	End Chainage (m)	Length (m)	Width (m)	Area (m ²)
Kuranda	Arara Street	20	90	70	12.6	882
Kuranda	Arara Street	90	111	21	13.6	286
Kuranda	Arara Street	111	126	15	11.2	168
Kuranda	Arara Street	126	227	101	8.5	859
Kuranda	Arara Street	227	252	25	9.5	238
Kuranda	Arara Street	252	306	54	5.2	281
Kuranda	Arara Street	306	327	21	7.3	153
Kuranda	Arara Street	327	540	213	10	2130
Kuranda	Arara Street	540	551	11	7.5	83
Kuranda	Arara Street	551	578	27	14	378
Kuranda	Arara Street	578	605	27	10.5	284
Kuranda	Barnwell Road	0	40	40	7.88	315
Kuranda	Barnwell Road	40	565	525	5	2625
Kuranda	Barnwell Road	565	660	95	5	475
Kuranda	Barron Falls Road	0	54	54	8	432
Kuranda	Barron Falls Road	375	420	45	6.2	279
Kuranda	Barron Falls Road	420	470	50	6.2	310
Kuranda	Barron Falls Road	470	720	250	5.8	1450
Kuranda	Barron Falls Road	720	760	40	14.2	568
Kuranda	Barron Falls Road	760	910	150	6.2	930
Kuranda	Barron Falls Road	910	943	33	7.7	254
Kuranda	Barron Falls Road	943	965	22	7.4	163
Kuranda	Barron Falls Road	965	1120	155	5.6	868
Biboohra	Bilwon Road	1700	2160	460	5.8	2668
Biboohra	Bilwon Road	2160	2275	115	8.4	966
Dimbulah	Caravan Park Access Road	N/A	N/A	N/A	Varies	2312
Mareeba	Cardwell Close	0	15	15	8.2	123
Mareeba	Cardwell Close	15	65	50	5.3	265
Mareeba	Cardwell Close	65	90	25	19.2	480
Julatten	Carr Road	35	186	151	3	453
Julatten	Carr Road	201	257	56	4.2	235

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



Locality	Road Name	Start Chainage (m)	End Chainage (m)	Length (m)	Width (m)	Area (m ²)
Julatten	Carr Road	257	331	74	3.8	281
Julatten	Carr Road	331	403	72	3	216
Julatten	Carr Road	423	830	407	3	1221
Mareeba	Cedric Davies Community Hub Car Park				Varies	4600
Julatten	Clacherty Road	30	784	754	6	4524
Julatten	Clacherty Road	784	1080	296	5.6	1658
Julatten	Clacherty Road	1080	1170	90	6	540
Julatten	Clacherty Road	1170	1295	125	5.6	700
Kuranda	Kuranda Rec Centre Car Park				Varies	2176
Mareeba	La Spina Road	26	696	670	7	4690
Mareeba	Leagues Club Car Park				Varies	3300
Mareeba	Leonardi Road	0	15	15	6	90
Mareeba	Leonardi Road	15	240	225	4.9	1103
Mareeba	Leonardi Road	240	300	60	6	360
Mareeba	Leonardi Road	300	390	90	4.5	405
Mareeba	Malone Road	50	640	590	7.2	4248
Mareeba	Malone Road	5546	5742	196	3	588
Mareeba	Malone Road	6067	6390	323	3	969
Mareeba	Mareeba Cemetery Access	0	268	268	7.1	1903
Mareeba	Mareeba Cemetery Access	0	214	214	5.1	1091
Mareeba	Martin Av	1037	1084	47	9.1	428
Mareeba	Martin Av	1084	1136	52	9.17	477
Mareeba	McGrath Road	0	14	14	13.6	190
Mareeba	McGrath Road	14	38	24	8.5	204
Mareeba	McGrath Road	52	115	63	7.5	473
Mareeba	McGrath Road	115	472	357	6.5	2321
Mareeba	McGrath Road	472	835	363	6.2	2251
Kuranda	Oak Forest Road	966.4	1100	133.6	6.6	882
Kuranda	Oak Forest Road	1100	1180	80	7.2	576
Kuranda	Oak Forest Road	1180	1302	122	6.6	805
Kuranda	Oak Forest Road	1302	1477	175	7	1225
Kuranda	Oak Forest Road	1477	1508	31	6	186
Kuranda	Oak Forest Road	1508	1554	46	8.5	391
Kuranda	Oak Forest Road	1554	1615	61	7.2	439
Kuranda	Oak Forest Road	2420	2630	210	7.2	1512
Kuranda	Oak Forest Road	2630	2740	110	11.3	1243
Mareeba	Seary Road	52	114	62	4.6	285
Mareeba	Seary Road	114	145	31	11.5	357
Mareeba	Seary Road	145	444	299	9	2691
Mareeba	Seary Road	444	676	232	8.7	2018
Mareeba	Seary Road	676	706	30	7.5	225
Mareeba	Soccer Club Access				Varies	1154
Mareeba	Studt Road	140	390	250	3	750
Dimbulah	Swimming Pool Access				Varies	1335
Mareeba	Tennis Court Car Park				Varies	1505

Infrastructure Services Capital Works Report Project Highlights - January 2021



Progress Update

At the time of reporting sections on the following roads have been resealed;

- McGrath Road, Mareeba
- Studt Road, Mareeba
- Bilwon Road, Bibohra
- Leonardi Road, Mareeba
- Malone Road, Mareeba
- Cardwell Close, Mareeba
- Seary Road, Mareeba
- Martin Avenue, Mareeba

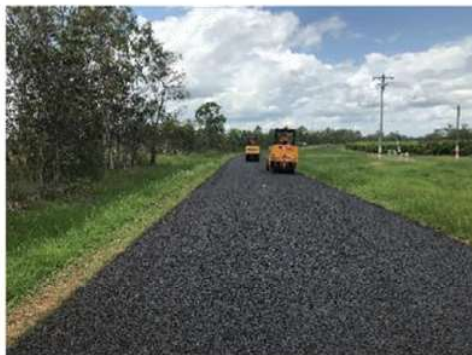
The above represents approximately 30% of the bitumen reseal program. It is estimated that there is thirty (30) days of resealing remaining. Given the current weather Mareeba Shire is experiencing, the reseals are being programmed to suit the times and in the locations where weather permits.



Studt Road, Mareeba



McGrath Road, Mareeba



Bilwon Road, Bibohra



Leonardi Road, Mareeba

Infrastructure Services Capital Works Summary Report - January 2021

Project Description	Project Stage	Progress comment
Program: 01 Rural and Urban Roads Reseal Program (Renewal)		
2020/21 Reseal & Asphalt Program	Construction	Reseal prep work has commenced in the Kuranda and Julatten areas. Reseals programmed to start mid-January, weather permitting. McGrath Road programmed to be re-sealed third week of January 2021 weather permitting. Other roads will be re-sealed in ad-hoc manner depending on weather.
Program: 02 Gravel Resheet		
2019/20 Gravel Resheet	Construction	Further resheeting works will be done after 2020/21 wet season.
2020/21 Gravel Resheet	Not Commenced	To be programmed after 2020/21 wet season.
Program: 03 Urban Streets		
LRCIP Lerra Street (West) - Widen and Seal	Completed	Practical completion reached 26 November 2020. Line marking will be carried out in conjunction with other projects in the new year.
Design Program - design forward works	Planning	Planning, investigation and design of future projects.
Program: 04 Rural Roads		
TIDS Euluma Creek Road, Julatten - Rehabilitate and widen Ch. 5.565 - 6.343	Construction	Drainage and culvert widening works complete. Remainder of the project will be constructed after the 2020/21 wet season. Currently programmed to commence after Railway Avenue Project is complete.
R2R Wolfram Road, Dimbulah - Priority Sections Safety Widening - Stage 1	Design	Design underway. Construction programmed to commence after the 2020/21 wet season.
DRFA Betterment Co-contribution	Procurement	Shanty and Clacherty Road Tender Reports to be considered by Council at its February meeting. Fossilbrook awarded.
Fallon Road, Kuranda - Rehabilitate Pavement, Ch 0.874 - 0.948	Planning	Design and geotechnical certification underway. Construction to commence after the 2020/21 wet season.
LRCIP - Speewah Road, Speewah - Rehabilitate pavement Ch. 0.345 to 0.5 and refurbish bus shelter	Design	Design underway, construction to commence after 2020/21 wet season.
Program: 05 Bridges		
LRCIP Hodzic Road, Oakey Creek, Biboohra - Replace girders	Planning	Programmed for April 2021.
LRCIP Renew Major Culvert, Pin Road Mutchilba	Planning	Programmed for May 2021.
Hales Siding Road - Replace Timber Bridge	Procurement	Tender report to be considered by Council at its February meeting.
Kanervo Road - Replace Timber Bridge over Davies Creek	Procurement	Tender report to be considered by Council at its February meeting.
Program: 06 Drainage		
Renew Minor Culverts - various locations	Construction	Pickford Road and Fenwick Street culverts completed. Other works to be programmed after 2021/21 wet season.
2020/21 Minor Culvert Renewal Program	Not Commenced	To be programmed.
LRCIP Amaroo Drainage Improvement - Stage 1 of 3	Design	Construction programmed to commence in first half of 2021.
Program: 08 Parking		
TTC - Railway Avenue, Mareeba - New Carpark	Construction	Concrete slab and plinths demolished and backfilled mid-December 2020. Construction to commence from mid-February, weather permitting.
Program: 09 Footpaths		
2018/19 Footpath renewal program	Construction	Quotes to be sought for replacement of sections of footpath on Anzac Avenue.
Footpath Renewal (All localities)	Construction	Works have started removing pavers and replacing them with blade mix at Centenary Park Kuranda. This will be an ongoing project to gradually reduce trip hazards when resources are available.
Program: 10 Parks and Gardens		
Shire Beautification Program	Construction	The thinning of vegetation at the lower Bi Lakes commenced in December and requires approximately 5 more days to complete. The works will be finalised when ground conditions dry to avoid unnecessary damage the park surrounds.
Kuranda CBD Renew Irrigation & Planting	Construction	Ongoing. This budget is used on an 'as required basis' for the continual upgrade of irrigation and plants in Coondoo Street.
Bi-Centennial Lakes - seed funding	Not Applicable	No grants identified as yet.
Mt Molloy Centre Islands, Replace irrigation and kerbing	Planning	Planning commenced to identify options for plantings & possible plinth relocation or decoration.

Infrastructure Services Capital Works Summary Report - January 2021

Project Description	Project Stage	Progress comment
Program: 11 Water		
Mareeba Water Treatment Plant - Replace generator	Completed	New generator installed and commissioned in January 2021.
Chillagoe - Replace existing water reservoirs	Construction	Project construction progressing well despite minor impacts of inclement weather.
Chillagoe Water Supply Investigation	Completed	This project for initial investigations is completed. Partial funding secured under 2019 Queensland Bushfires Local Economic Recovery Program for construction project.
Warril Drive, Kuranda - new water main and booster	Construction	Project pre-start meeting held Wednesday 27 January. Contractor advised there is a long lead time on the booster pump set (as expected) and anticipated arrival time is late February early March.
Kuranda Water Treatment Plant - Replace backwash blowers	Construction	Equipment has arrived, inclement weather causing minor delays on installation.
Kuranda Water Treatment Plant - Replace clarifier bridge scraper	Construction	Works progressing well and anticipated completion time is end of March, weather dependent.
SCADA Cybersecurity Upgrade	Construction	Major equipment parts have arrived with contractor on-site early February to begin the installation program which will take until end of June.
Mareeba and Kuranda Water Treatment Plans - raw water pumps upgrade	Design	City Water technology working on this project, there are some delays with this due to COVID travel restrictions though it will be completed prior to the end of the financial year.
Mareeba Water Treatment Plant - Based on a successful trial of new turbidity meters, implement automated backwash on high turbidity	Design	City Water technology working on this project, there are some delays with this due to COVID travel restrictions though it will be completed prior to the end of the financial year.
Mareeba, Kuranda and Dimbulah Water Treatment Plants - Replace chlorine analysers	Procurement	Quotes currently being sourced.
Mareeba Water Treatment Plant - filter 3 Install dedicated backwash pumps and reconfigure wash water feed pipes	Design	City Water technology working on this project, there are some delays with this due to COVID travel restrictions though it will be completed prior to the end of the financial year.
Chillagoe Water Treatment Plant - Install conductivity meter on raw water transfer line, trend conductivity on SCADA	Planning	Work on this project to be in conjunction with the water reservoir upgrade project.
Install a static mixer and injection quill for ACH dosing - Kuranda	Construction	Equipment has arrived and will be installed as soon possible, currently there has been wet weather delays.
Rankin Street West - Water main replacement and upgrade	Construction	Project construction to commence 3 February and expected to take 3 to 4 months weather dependent.
Mason Road, Kuranda Booster Pump Station Generator 30KVA	Construction	Generator installed and awaiting electrical connection.
Kuranda Water Treatment Plant - Overhaul Sedimentation Tank	Construction	Works well underway and expected to be completed by end of April or early May.
Telemetry/SCADA Upgrades	Procurement	Equipment on order with some arriving. Equipment to be installed and commissioned by Council's contractor prior to end of June.
Valve Replacement Program (Reticulation)	Construction	Works underway and will be progressively done over the coming months.
Mareeba Water Treatment Plant - Coagulation mixing renewal	Design	Working with City Water Technology for the implementation of this project, in conjunction with the new backwash system they are designing.
Mareeba Water Treatment Plant - Clarifier condition assessment	Design	Working with City Water Technology however COVID-19 has delayed this project. Quotes have been sourced from appropriately qualified companies to work with City Water to undertake the assessment.
Mareeba Water Treatment Plant - Optimise clarifier performance upgrade	Design	Working with City Water Technology for the implementation of this project, in conjunction with the new backwash system they are designing.
Mareeba Water Treatment Plant - Backwash operation renewal	Design	Working with City Water Technology for the implementation of this project, in conjunction with the new backwash system they are designing.
Racecourse Irrigation Booster Pump Station and Centrifugal Pump	Completed	Project completed December 2020.

Infrastructure Services Capital Works Summary Report - January 2021

Project Description	Project Stage	Progress comment
Hydrants Renewal Program	Construction	Work is underway in conjunction with the hydrant maintenance program and it is anticipated the work will be completed this financial year.
Fraser Rd Mt Molloy Water Main Upgrade	Construction	Project commenced early January and for completion in early February.
LER - Chillagoe Bore & Water Main Construction	Design	Project design underway, as soon as the design is completed project will go to tender.
Program: 12 Wastewater		
2019/20 Mareeba Sewer CCTV & Relining Program	Construction	House connection branches in the Kenneally Estate area substantially complete. Remaining works to be delivered as part of 2020/21 relining program.
2019/20 Manhole Rehabilitation and Replacement Program	Construction	Works have will progressively be done until the project is completed.
Minor Sewerage Station H2S Protection	Completed	Work completed early December 2020.
Telemetry/SCADA Upgrades	Procurement	Orders issued to SCADA engineering so works can begin working in conjunction with other telemetry projects for this financial year.
2 x New standby generators for 2 priority pump stations	Construction	Generators installed and waiting on electrical contractor to do undertake connection.
2020/21 Mareeba Sewer CCTV & Relining Program	Construction	Contractors commenced works on Monday 18 January with expected three (3) month schedule of work to be done.
2020/21 Manhole Rehabilitation and Replacement Program	Construction	Works that were underway with program have temporarily halted due to the contractor having other commitments. Works are scheduled to recommence early 2021.
Kuranda Wastewater Treatment Plant - Replace Clarifier Bridge Drive	Construction	Works schedule to commence late February with an eight week works program.
Kuranda Wastewater Treatment Plant - Replace SMBS Dosing Pumps	Procurement	Quotes sourced and new pumps are now on order.
Mareeba Wastewater Treatment Plant - Aeration diffusers every 5 years	Procurement	Supplier contacted procurement to occur in early 2021.
Mareeba Wastewater Treatment Plant - Inline instruments component replacements	Construction	Works almost completed with contractor bringing equipment online.
Renew Mareeba and Kuranda Wastewater Reticulation Pumps	Procurement	Replacement Pumps are on order.
SCADA Cybersecurity Upgrade	Procurement	Purchase orders issued for the necessary equipment and most goods and materials arrived with physical works commencing on 1 February.
LER - Mason Street Sewer Main Upgrade	Procurement	Grant funding approval approved under Local Economic Recovery (LER) program. Tenders invited from 30 January.
Program: 13 Waste		
Connect Kuranda Waste Transfer Station to Ergon	Construction	Ergon have completed their electrical connection, Council's electrical contractor to complete site works by end of February.
Kuranda Waste Transfer Station - Reserve firefighting water tank/bore	Construction	As soon as the electrical works are completed, the bore and bore equipment contractor can commission and run new equipment.
Program: 15 Fleet		
GPS Vehicle Management System	Planning	Alternative scope of works to be presented for consideration.
Replace Unit 625 Mitsubishi Truck	Procurement	Contractor working on fabrication plans, anticipate at least 8 weeks until delivery (April).
Replace Unit 620 Mitsubishi Dual Cab Tipper	Procurement	Contractor on track for delivery mid-February 2021.
Replace Isuzu Prime Mover Unit 681	Procurement	Prime Mover delivery is scheduled for March 2021.
Replace Unit 6 Komatsu Grader	Procurement	Grader anticipated arrival delayed due to COVID - Potential February/March 2021 delivery.
Replace Unit 5432 Sewerage Jet Rodder trailer with a hydro vac truck	Procurement	Suitable unit being sought, timeline dependant on auction availability.
Program: 16 Depots and Council Offices		
Rankin Street Office - Upgrade lighting	Construction	Initial install completed, some minor changes to address dark spots and repairs to ceiling panels yet to be completed.
Kuranda Depot - Install hardstand and improve drainage	Planning	Procurement scope under consideration.
Rankin Street Office - Minor refurbishments	Procurement	Quotations received and assessments underway.
Program: 17 Community Buildings		

Infrastructure Services Capital Works Summary Report - January 2021

Project Description	Project Stage	Progress comment
Kuranda Rec Centre - Refurbishment	Construction	Building certifier to review building to ascertain final elements for completion.
Cedric Davies Community Hub	Construction	Library & Community Function Centre works underway. Demolition significantly progressed.
Mareeba Swimming Pool Heater	Construction	Quotations received, works to be completed in line with Solar Project.
Koah Tennis Court - Remove/replace the unstable timber light poles	Not Commenced	Application by Koah Community Group to build a large undercover facility has been received. Lighting project on hold awaiting outcome of this proposal.
Toilet Facility Refurbishments	Construction	<u>Mt Molloy</u> : Painting quote received and approved. Works to commence start of February, flooring installation mid-February to finish works. All maintenance items completed next week e.g. replacement toilet roll holders, new mirrors etc. <u>Mary Andrews Garden</u> : Painting quote received and approved. Works to be completed by mid-Feb. <u>Centenary Park</u> : All maintenance works completed. Deep clean to be carried out on 29 January to complete works.
Mareeba, Dimbulah and Kuranda Aquatic Facilities - Remote monitoring upgrade for all swimming pools	Construction	Kuranda Pool monitoring installed, with initial training of staff completed. Minor delay to Mareeba and Dimbulah due to COVID travel restrictions.
Mareeba Leagues Club roof repairs	Planning	Tender Report to be submitted for consideration by Council at 17 February 2021 meeting.
Kuranda Community Precinct replace old iron louvres & replace gutters and roofing	Construction	Louvre replacement complete. Main roof complete. Stairway awnings to be complete end February 2021, delays due to wet weather.
Remove Mareeba Swimming Pool Heating and repair damage to gymnasium hall roof	Planning	Quotations received, works to be completed in line with Solar Project.
LRCIP Irvinebank Public Amenities Refurbishment	Construction	Painting quotation received. Works to commence at the start of February. Following completion of painting, flooring to be installed mid-February to complete works.
LRCIP Cedric Davies Community Hub - air conditioner	Construction	Library & Community Function Centre works underway. Demolition significantly progressed.
Program: 18 Non-Infrastructure Items		
Mareeba Cemetery Beam	Completed	Project scope increased to include two new "half beams" at western end of lawn beam area. Beams were completed late November. Re-numbering of existing beams yet to be done.
Kuranda new Cemetery	Planning	Consultant quotations being sought.
Mareeba Cemetery Mausoleum Wall	Completed	Practical completion reached June 2020. Rectification of minor defects underway anticipated completion end February 2021.
DRFA Flood Warning Infrastructure Network MbaSC.0016.1819E.FWI - River Gauge (Biboohra)	Planning	Scoping meeting with QRA and BOM complete. This will be a joint procurement through FNQROC.
DRFA Flood Warning Infrastructure Network MbaSC.0018.1819E.FWI - Rain Gauge (7 locations)	Planning	Scoping meeting with QRA and BOM complete. This will be a joint procurement through FNQROC.
Program: 20 KIAC		
KIAC - Therwine Street Redevelopment Stage 2	Construction	Remediation of minor timber elements to be completed by Council Staff.
KIAC - Barron Falls Walking Track Phase 2	Construction	Practical completion being sought from Wet Tropics and Qld Parks & Wildlife.
KIAC - New Wayfinding Signage	Construction	Fabrication ongoing, installation to occur following the wet season 2021.
KIAC - Jum Rum Creek Walking Track Rehabilitation	Construction	Project significantly progressed, anticipate completion February 2021, weather dependant.
KIAC - Jungle Walking Track Rehabilitation	Construction	Project significantly progressed, anticipate completion February 2021, weather dependant.
Program: 23 W4Q3 - Works for Queensland 3		
W4Q3 Lerra Street Kerb & Drain Improvements	Procurement	Project postponed until after the wet season. Works could not reach sealing stage before Christmas close down.
W4Q3 Footpath Renewal All localities	Procurement	Plans received for Anzac Avenue footpath replacement. Quotations being prepared for work to be delivered by contractor.
W4Q3 Mareeba Pound Upgrade Pound/Facility	Construction	Contractor established at site, works commencing February.
W4Q3 Repaint Chillagoe Hub	Completed	Completed December 2020.

Infrastructure Services Capital Works Summary Report - January 2021

Project Description	Project Stage	Progress comment
W4Q3 Rankin Street Office Replace Air-conditioner	Construction	First stage works complete, quotations for second stage under review.
Program: 24 W4Q4 - Works for Queensland 4		
W4Q4 Bicentennial Lakes Solar Lighting	Design	Additional solar lighting to be installed after 2020/21 wet season.
W4Q4 Dimbulah Hall replace linoleum flooring	Procurement	Quotations received, budget and delivery timeline being confirmed. Works to commence March 2021.
W4Q4 Riverside Caravan Park refurbish shower amenity block	Planning	Delivery options to be presented for further consideration by Council. Further deterioration of substructure has resulted in the need to vary the scope of works initially approved.
W4Q4 Dimbulah Caravan Park refurbish dongas and front office facilities	Design	Works to be completed after 2020/21 wet season.
W4Q4 Mareeba Heritage Centre sand and paint timber floors of main centre building including café	Completed	Works completed during Christmas closedown.
W4Q4 Dimbulah Swimming Pool refurbish kiosk	Procurement	Cabinetry designed and flooring quotes received. Works scheduled for April 2021 when pool closes.
W4Q4 Refurbish Kuranda Recreation Centre Hunter Park	Planning	Building Certifier has identified some issues that require rectification, works to commence on engagement of contractors.
W4Q4 Dimbulah Hall and Shire Hall Park electrical capacity upgrade	Procurement	Load assessment complete, electrical improvement works to be undertaken. Works to be completed March 2021.
W4Q4 Dimbulah Swimming Pool Solar	Construction	Solar panels and inverter installed. Connection via Ergon to be carried out by 22 February.
W4Q4 Mareeba WWTP Solar	Construction	Earthworks have commenced. Awaiting concrete pour before installation of the solar panels.
W4Q4 Mareeba Swimming Pool Solar	Construction	Upon further investigation of the site, the contractor identified potential performance improvements through the merger of multiple points of supply. Works to commence following approval of variation by Council.
W4Q4 Mareeba WTP Booster Pump Solar	Completed	Solar panels installed and connected. Project completed January 2021.
W4Q4 Mareeba Water Treatment Plant Solar	Construction	System downsized due to space restrictions. Contractor is providing future provisions for installation to the system following upgrades to the water treatment plant. Contractor awaiting delivery of brackets for solar panels. Expected installation in 3 weeks.
W4Q4 Kuranda Aquatic Centre Solar	Completed	Solar panels installed and connected. Project completed January 2021.
W4Q4 Kuranda Water Treatment Plant Solar	Construction	The design of the structure amended to include works carried out as part of a water project. Extension to main office building to commence in late February and new structure over the clarifier tank to be completed in 8 weeks.
W4Q4 Community Hub Solar	Construction	Contractor is due on-site on 26 February to install edge protection and start installation. Connection to the switchboard cannot take place until the new switchboard is installed as part of another project. Project due for completion at the start of April.
W4Q4 Centenary Booster Pump Solar	Construction	Design and purchase of the new shed has been completed. Installation to be carried out following construction of the shed. Works to be completed by end of March.
W4Q4 Mt Molloy Community Hall Refurbishments	Procurement	Quotations called for electrical works, handyman provided scope for building modifications. Works to be completed during wet season.
W4Q4 Arnold Park Toilet Upgrade	Planning	Preparing options for consideration prior to inviting quotes.
W4Q4 Cedric Davies Community Hub - Library project	Construction	Library & Community Function Centre works underway. Demolition significantly progressed.
W4Q4 Rankin Street Public Disability Toilet	Construction	Quotation received and assessment underway. Works to commence from February, subject to contractor availability.

9.3 INFRASTRUCTURE SERVICES, TECHNICAL SERVICES OPERATIONS REPORT - JANUARY 2021

Date Prepared: 18 January 2021
Author: Manager Technical Services
Attachments: Nil

EXECUTIVE SUMMARY

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

RECOMMENDATION

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

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

Investigation activities undertaken in January included:

Activity	Current Requests	Closed Requests
Road Infrastructure Review	67	32
Drainage Investigations	5	8
NHVR Permit Applications	0	16
Aerodrome Investigations	1	0
Traffic Count Surveys	0	0
Parks Investigations	6	0
Rural Address Requests	0	2
Dial Before You Dig Requests	0	36

Soil Laboratory:

Council's Soil Laboratory provides NATA-accredited soil and material testing for internal and external services. The laboratory personnel took leave during the January period due to minimal works being programmed, and as such, no testing was undertaken during the month of January.

Asset Inspections:

Scheduled inspections of Council's transport infrastructure assets focussed primarily on the road network during the month of January:

Inspection Type	No. of roads inspections
-----------------	--------------------------

Roads	118
Subtotal	118

In addition to field inspections, work was completed towards improving data collected for the footpath, water, sewerage, roads, kerbs and stormwater network.

Inspections planned for February will continue to focus on the annual inspection of Council roads.

Operational Works and Subdivisions

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

Locality	Subdivisions Name	Status
Mareeba	Kenneally Estate Stage 4	Under construction
Mareeba	The Edge Stage 3A	Under construction
Mareeba	Amaroo Stage 11	Under construction
Mareeba	The Edge Stage 2B	On-maintenance
Kuranda	3 Hilltop Close	On-maintenance
Mareeba	Mareeba Roadhouse & Accommodation Park, Williams Close	On-maintenance
Mareeba	Clean Choices Car Wash	On-maintenance
Kuranda	72 - 76 Mason Road Stage 1	On-maintenance
Kuranda	112 Barnwell Road widening	Monitoring

Disaster Recovery Funding Arrangements (DRFA - previously NDRRA)

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

Program	Status
2021 DRFA	Mareeba Shire activated DRFA assistance measures associated with Tropical Cyclone Imogen and Associated Low Pressure System, 2 - 12 January 2021. DRFA has been approved for Counter Disaster Operations (CDO) and Reconstruction of Essential Public Assets (REPA).
2019 DRFA	Works at all locations completed, with the exception of a small creek crossing repair in the Mareeba area, which will be completed after the wet season and prior to end of financial year; and Gamboola Crossing which will commence after the wet season.
2019 Betterment	Preparation for delivery of the 2019 Betterment works is underway; <ul style="list-style-type: none"> Fossilbrook Road, Lynd Crossing - Tender Award approved, works to commence after wet season.

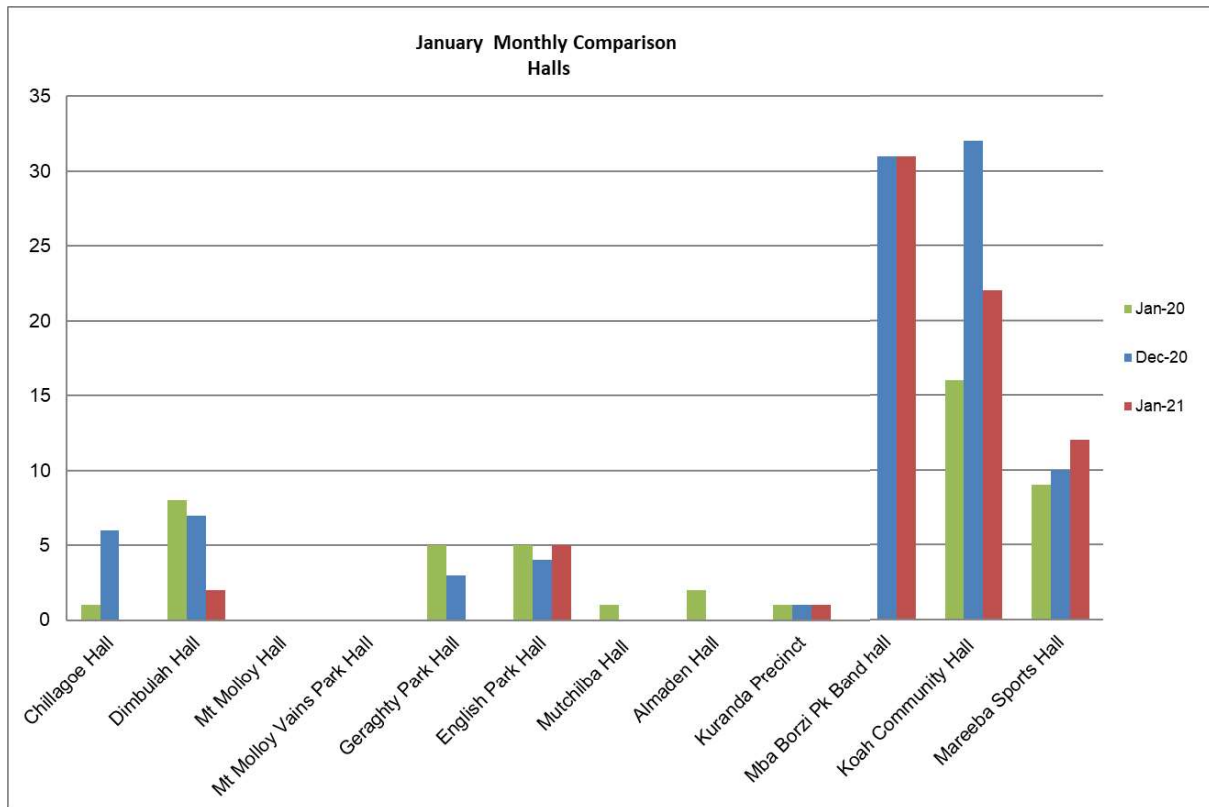
Program	Status
	<ul style="list-style-type: none"> • Shanty Creek Road, Creek Crossing - Council consideration at February Council Meeting. • Clacherty Road, Creek Crossing - Council consideration at February Council Meeting. <p>QRA provided preliminary approval of these projects in early September 2020. Other betterment projects to be identified and submitted in future funding rounds.</p>

Facilities

Community Halls:

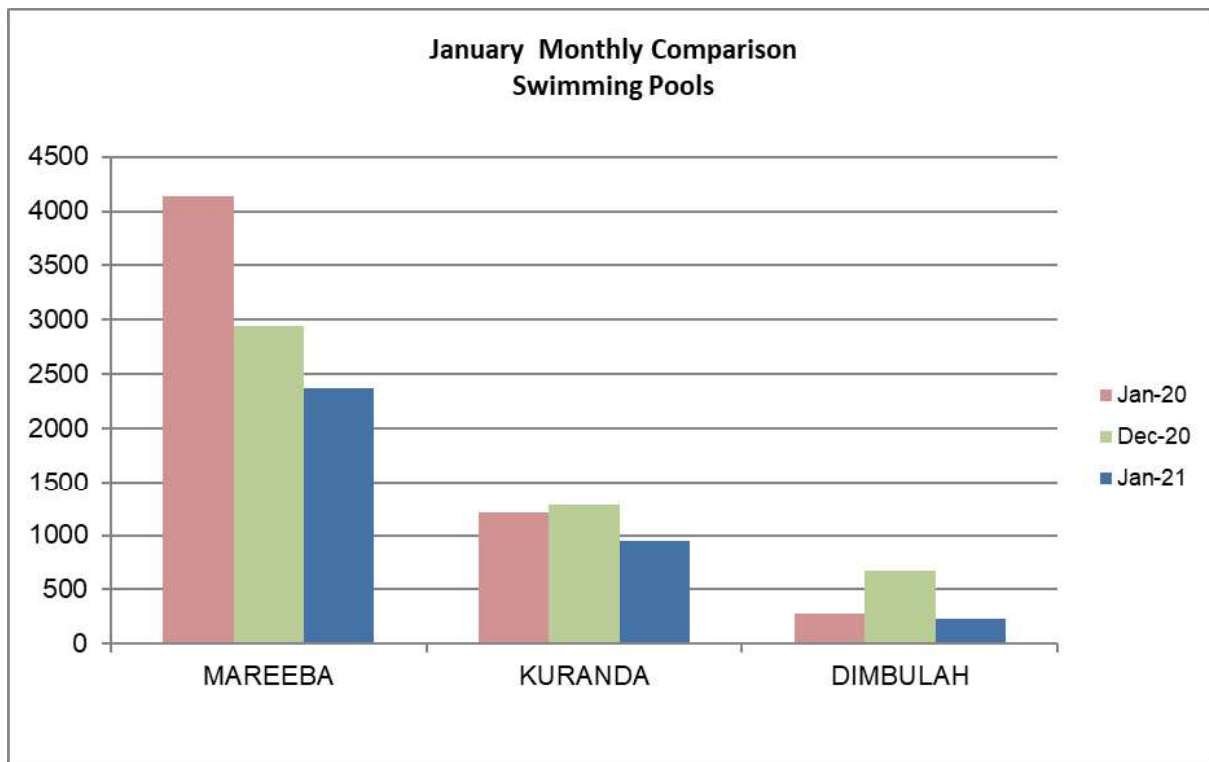
Maintaining safe and efficient access to Council Community Halls is recognised as an important aspect for the community's ongoing wellbeing. All facility users are required to comply with the conditions set out by the State Government's COVID-19 Restrictions Roadmap.

January utilisation indicates a decline compared with previous months, however the contraction in utilisation aligns with historical data from previous years. It is noted that some clubs are yet to recommence following the emergence of COVID-19.



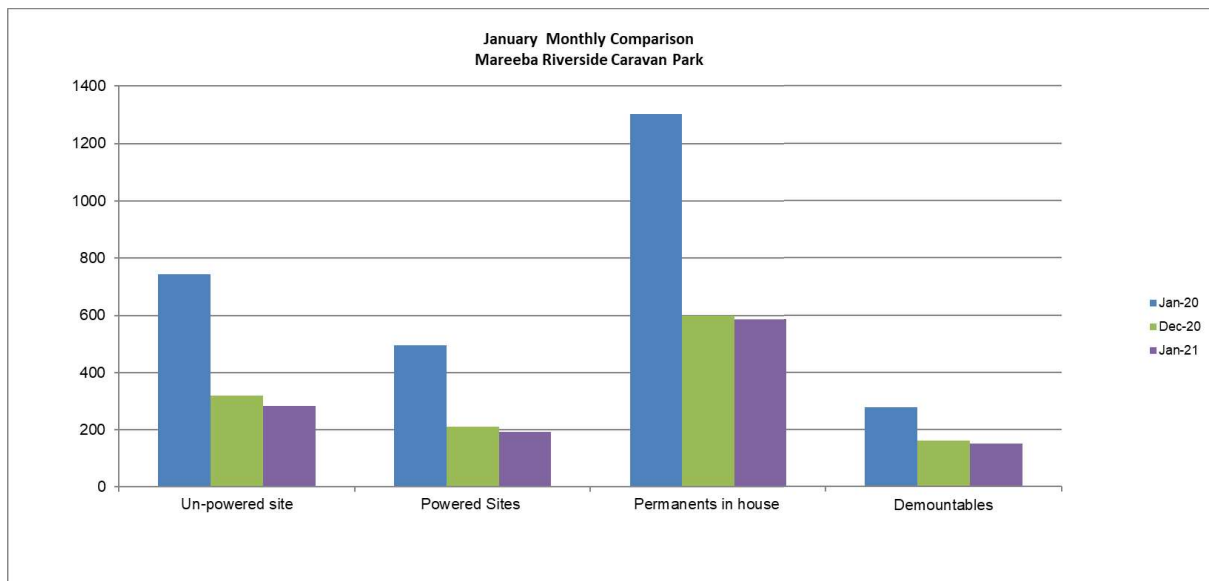
Swimming Pools:

All three (3) pools are now operational, with public safety restrictions remaining in force in line with the State Government's COVID-19 Requirements. Reduced attendance numbers reflect the storms and the reduced pool hours at the beginning of the year. Schools are to return in February.

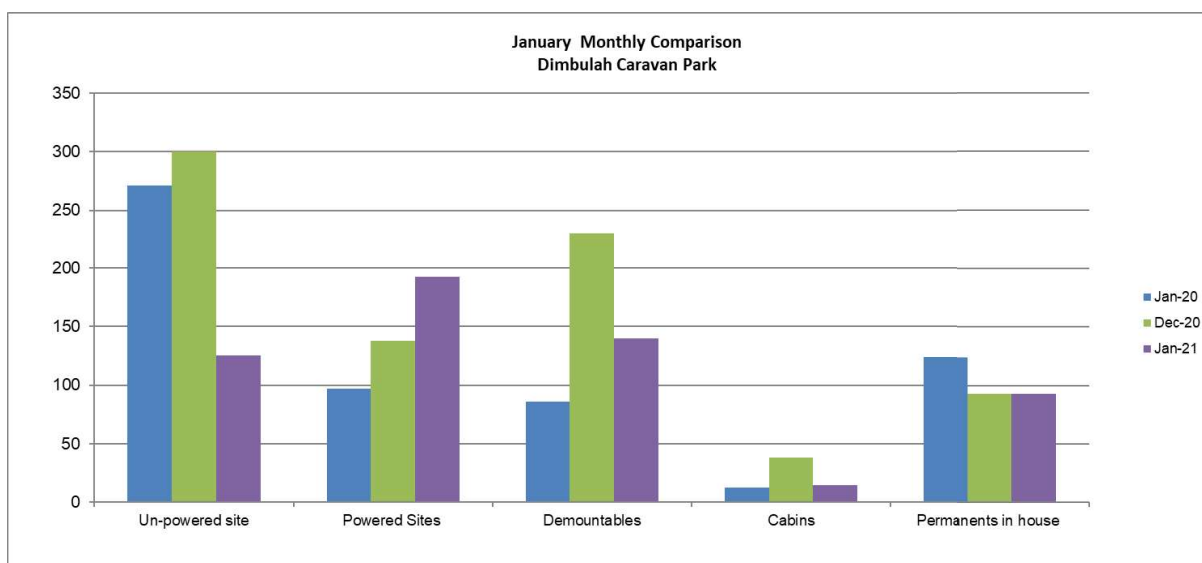


Caravan Parks:

Mareeba Riverside Caravan Park utilisation has reduced when compared to both last month and the similar period for previous year, which at this time is contributed to the COVID-19 restrictions to travellers and the borders closure.



Dimbulah Caravan Park utilisation has also reduced slightly compared to last month and the similar period for the previous year. Figures compared to last year in some areas are still down which is still contributed to the COVID-19 restrictions for travellers.



Vandalism & Graffiti:

During January, twelve (12) reports of vandalism/graffiti were recorded, with annual costs provided below;

Financial Year	Actuals	Comments
2015/16	\$ 2,134.00	• Mareeba Arnold Park ladies' toilets - graffiti
2016/17	\$ 16,546.00	• Mareeba CWA Toilets - cistern ripped off the wall
2017/18	\$ 23,948.00	• Mareeba Theatre Hall x2 - holes in walls
2018/19	\$ 14,851.00	• Mareeba Sports Hall x2 - exterior graffiti and damage to building internal and external
2019/20	\$ 14,211.18	• Mareeba Rankin Street Office x5 - over a period of 10 days. Carport damaged, graffitied, vehicles vandalised and infrastructure damaged.
2020/21	\$ 14 724.56	• Mareeba Davies Park - vehicle damaged fence Jasper Street

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

LEGAL/COMPLIANCE/POLICY IMPLICATIONS

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

FINANCIAL AND RESOURCE IMPLICATIONS

Capital

Nil

Operating

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

LINK TO CORPORATE PLAN

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

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 engaged community which supports and encourages effective partnerships to enhance the liveability of the shire and the wellbeing of residents in communities which are resilient and prepared for unforeseen events.

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.

9.9 INFRASTRUCTURE SERVICES, WORKS SECTION ACTIVITY REPORT - JANUARY 2021

Date Prepared: 7 February 2021

Author: Manager Works

Attachments: Nil

EXECUTIVE SUMMARY

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

RECOMMENDATION

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

BACKGROUND**Transport Infrastructure**Road Maintenance Activities

Mareeba Shire was activated by the Queensland Government for Disaster Recovery Funding Arrangements (DRFA) assistance measures associated with Tropical Cyclone Imogen and Associated Low Pressure System, 2 - 12 January 2021. DRFA has been approved to enable Council to access funding assistance for undertaking Counter Disaster Operations (CDO) for approved activities that were undertaken immediately prior to, during or immediately after an eligible disaster and Reconstruction of Essential Public Assets (REPA) for temporary emergency repair works and permanent reconstruction of eligible infrastructure.

Council's Construction and Maintenance staff have been carrying out emergency repairs of road and drainage assets for much of January. As well as Council staff, two (2) contractors have been engaged to assist in the repair activities.

At the time of reporting, staff were still unable to travel past Wrotham Park, north west of Chillagoe, so there are still parts of Council's local road network that are yet to be inspected for damage. Currently, all accessible local roads to this point are in an open and safe condition, however motorists need to drive to the prevailing conditions.



Fossilbrook Road



Wolfram Camp Road



Bolwarra Road



Morrish Road

Bridges and Major Culverts

Rain over the month of January has seen the Bridge and Concrete crews concentrate their efforts on the cleaning and clearing of debris from major culverts inlets and outlets and emergency repairing. These activities will continue in the coming weeks along with scheduled bridge and major culvert inspections and maintenance.



Inlet/Outlet Clearing Ada Creek



Leadingham Creek Road Causeway

TMR Routine Maintenance Performance Contract (RMPC)

RMPC crews ceased work for 2020 on 18 December and have been returning from leave during January. Operational works on state-controlled roads under Council's stewardship during the month of January have been restricted to emergent works and as resources become available the normal maintenance programs will resume.

Parks and Open Spaces

Regular rainfall during January has ensured that mowing will be the primary task for Parks and Open Spaces in all areas of the shire for the coming months. Contractors have been engaged to attempt to keep pace with the rapidly growing vegetation.

In late 2020, it was identified that a fig tree in the heritage-listed Kuranda Fig Tree Avenue on Coondoo Street is dying. The tree is located adjacent to 21 Coondoo Street.

An arborist was engaged to inspect the tree and has reported that a combination of age and other factors such as restricted growing space have caused the demise of the tree and that it will not recover. The arborist has recommended that the tree be removed before it becomes a safety hazard to pedestrians and vehicles.

Council officers have lodged an application for an Exemption Certificate with the Department of Environment and Science (DES) in accordance with the heritage listing requirements to have the tree removed. Council is waiting on further advice from the Queensland Government in relation to the application.



Fig Tree at 21 Coondoo Street, Kuranda

Land Protection

Prickle Trees (Prickly acacia, Mimosa, Parkinsonia): Ootann, Fossilbrook and Springfield Roads have been surveyed and all prickle trees have been removed and their locations mapped.

Frogbit: Land Protection officers have established four (4) sentinel sites on Two Mile Creek, Four Mile Creek and Lake Mitchell. Staff visit these sites four (4) times per year and spray all the invasive weedy grasses to maintain a clear water space so that any Frogbit that washes down will be highly visible. The first treatment has been undertaken and officers report that no new incursions of this aggressive water weed were located.

Gamba Grass: Land Protection field staff have commenced Mareeba Shire Council's annual roadside spray treatment of Gamba Grass.

Town Weeds: Goats head burr, Bindii, Rats Tail Grass and other pests have been treated on town street verges, parks and gardens and Council reserves.

Siam Weed Infestation on Sandy Creek at Mount Molloy

In July 2019 Council was contacted by a resident from this area reporting a new weed that was invading their pastures, creek bed and banks and climbing into trees on Sandy Creek.

Council's Land Protection staff attended the site to assess and identified Siam weed to be present. Plant samples were collected and sent off to the Queensland Government Herbarium for confirmation.

Together with the affected landowners and some of the downstream neighbours, officers initiated an extended survey in order to gauge the extent of the weed. It was found to be infesting 238 hectares of the river riparian, extending to forested lagoons and anabranches as well as invading grazing land. It posed a serious threat to the entire Mitchell River Catchment due to flowing water carrying seeds downstream.

The initial infestation was proven to be from a stone pitched causeway on one (1) of the property fire trails. It is highly probable that the stone sourced for the causeway was from a Siam infested rockpile. Officers were unable to determine the source of the material or who had installed the causeway.

The initial control/removal program was paid for by Council and affected property owners. As it was a large site and potentially expensive removal program, \$20,000 funding was applied for and approved in August 2019 through the Australian Governments Communities Environment Program. Land Protection staff have completed a further three (3) full control programs during this time.

Although the four (4) treatments have dramatically reduced the area and density of the weed, the area will need to be monitored and treat as necessary all seedling plants that emerge. With the property owners' continued assistance, officers are confident that they will be able to manage the area until it has been completely removed from the site. Continued extended surveys looking for seedlings and out breaks will continue, as will public awareness and education further down the catchment.

The grant has been acquitted and Council has reported back to the funding body showing before and after photos, maps, financial costings, the benefits to the community and the health of the river system.

Through the public awareness program that was an integral part of the project, is expected that local residents and landowners will be able to recognise Siam weed and know who to notify should further suspected Siam outbreaks occur.



Treating Siam Weed-Sweet William Pocket, Mt Molloy



Treated Site (pink)

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 2020/21 maintenance budgets.

LINK TO CORPORATE PLAN

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

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

9.8 INFRASTRUCTURE SERVICES, WATER AND WASTE OPERATIONS REPORT - JANUARY 2021**Date Prepared:** 18 January 2021**Author:** Manager Water and Waste**Attachments:** Nil**EXECUTIVE SUMMARY**

The purpose of this report is to summarise Council's Water and Waste activities undertaken by the Infrastructure Services Department during the month of January 2021.

RECOMMENDATION

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

BACKGROUND**Water and Wastewater Treatment:**

All treatment plants performing satisfactorily. Water demand for December was similar to the previous month's consumption.

Inflows through the wastewater treatment plants have remained steady with a slight decrease in inflows at the Mareeba WWTP and Kuranda WWTP towards the end of December.

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 November.

Water Treatment	Mareeba	Kuranda	Chillagoe	Dimbulah	Mt Molloy*
Water Plant average daily production (kL)	5,082	763	211	190	53
Number of Connections	3,922	1,010	123	247	123
Average daily water consumption per connection (L)	1,296	755	1,715	769	423

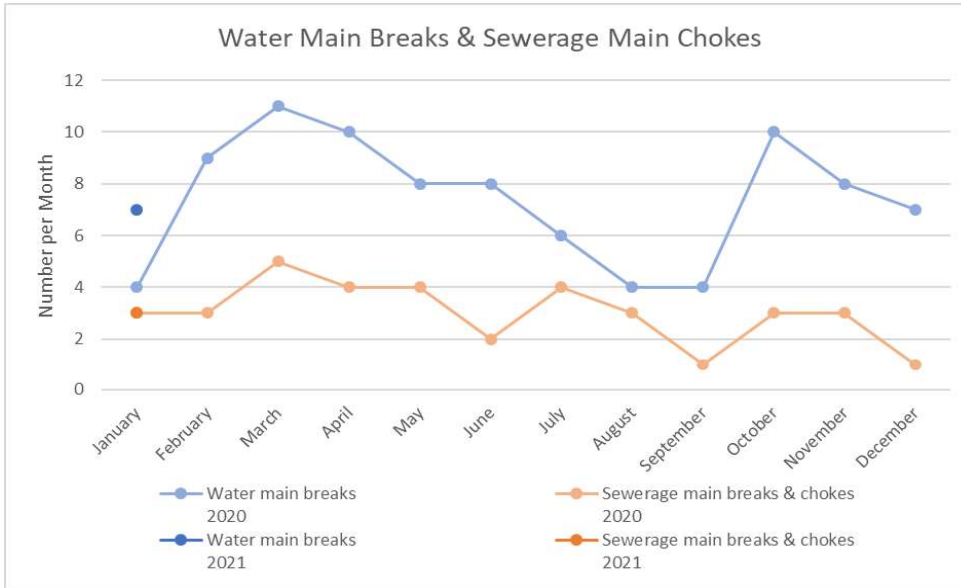
* Mt Molloy is an untreated, non-potable water supply

Wastewater Treatment	Mareeba	Kuranda
Wastewater Plant average daily treatment (kL)	7,474	230
Number of Connections	3,507	348
Average daily inflow per connection (L)	2131	661

Water and Wastewater Reticulation:

Council's water reticulation crew attended to seven (7) water main breaks and small water leaks and three (3) sewerage main breaks, and average response times were within targets set out in Council's customer service standard for water services.

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



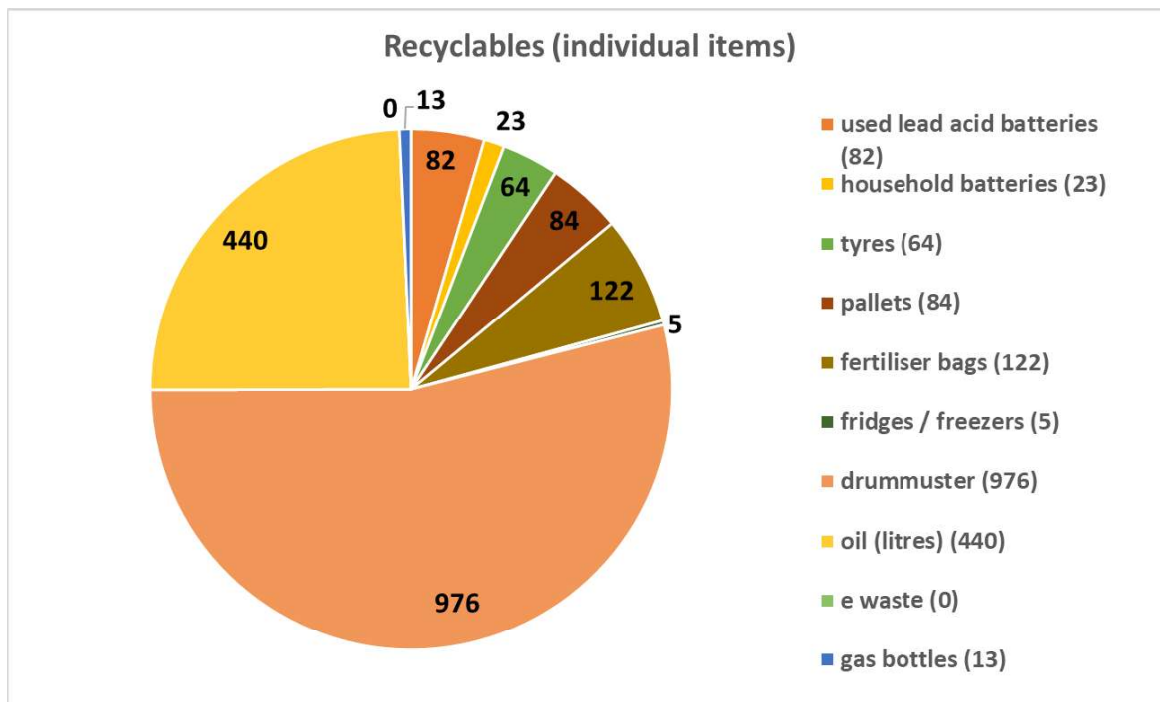
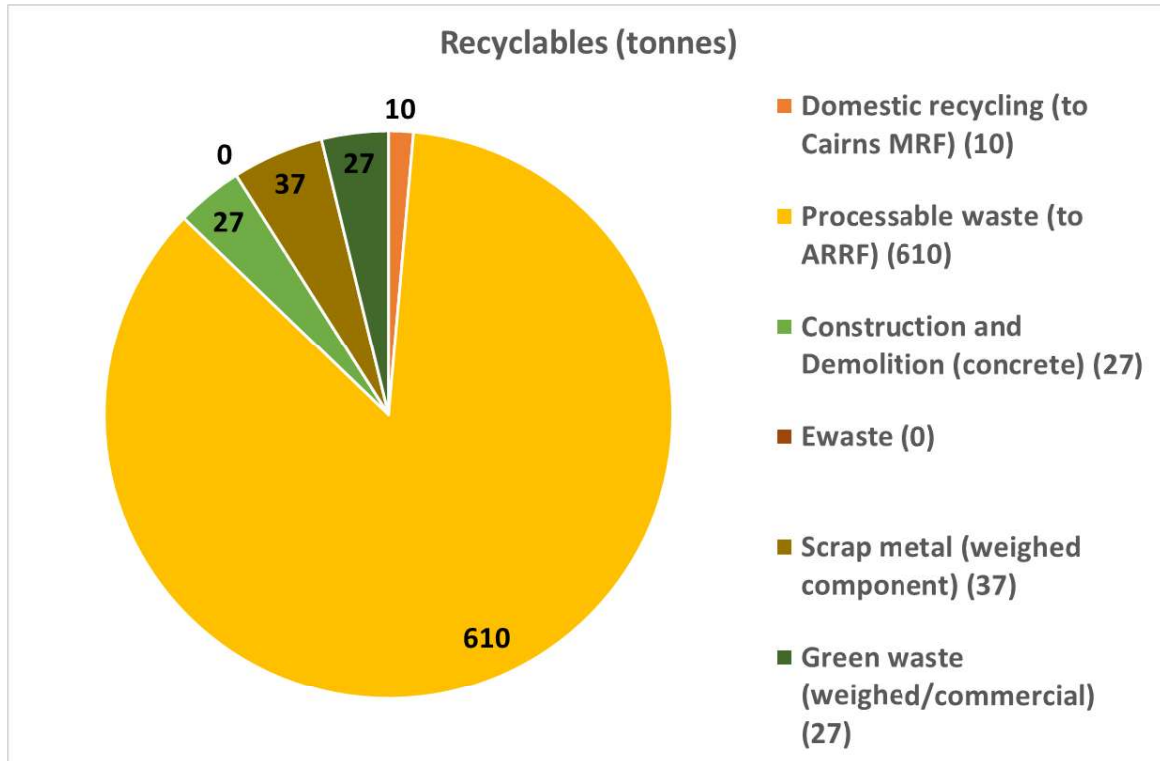
Waste Operations:

All transfer stations and Mareeba landfill are currently operational.

Recycling

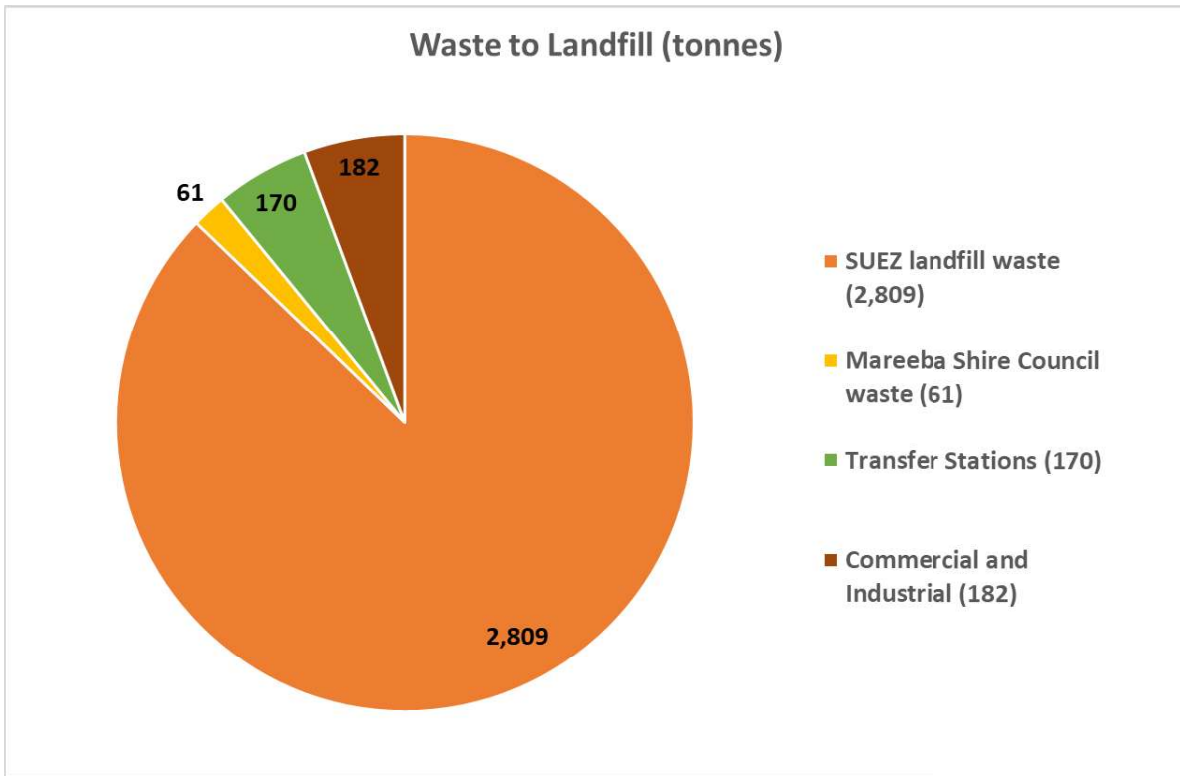
Waste material collected at each of the waste transfer stations are either deposited directly to the Mareeba landfill, recycled or transported to the SUEZ Advanced Resource Recovery Facility (ARRF) in Cairns for processing.





Waste to Mareeba Landfill

Waste directed to Mareeba Landfill is primarily residual waste from the SUEZ Advanced Resource Recovery Facility (ARRF) plant in Cairns, with minor quantities received from the waste transfer stations (Mareeba included), commercial and industrial waste, and waste that Mareeba Shire Council produces from its own activities.



Illegally Dumped Waste

Council received no illegally dumped waste through Mareeba Waste Transfer Station during the month of January.



Queensland State Waste Levy

Earlier last year, the Queensland Government deferred the increase of levy rates from 1 July 2020 to 1 January 2021 as part of a suite of measures to support Queensland businesses during COVID-19.

In line with the original decision and as scheduled in *the Waste Reduction and Recycling Regulation 2011*, levy rates have increased by \$5 per tonne on 1 January 2021.

RISK IMPLICATIONS**Environmental**

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

The Environmental Authority amendment process is underway.

LEGAL/COMPLIANCE/POLICY IMPLICATIONS

Nil

FINANCIAL AND RESOURCE IMPLICATIONS***Capital***

Nil

Operating

Nil

LINK TO CORPORATE PLAN

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

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 and affordable levels of service delivered to the community.