

9 INFRASTRUCTURE SERVICES

9.1 INFRASTRUCTURE SERVICES, CAPITAL WORKS MONTHLY REPORT - FEBRUARY 2021

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Attachments:

1. Capital Works Highlights - February 2021 [↓](#)
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EXECUTIVE SUMMARY

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

RECOMMENDATION

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

Nil

Infrastructure Services Capital Works Report Project Highlights - February 2021



Project Name: Mareeba Pound Upgrade

Program: Community Buildings

Background

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

Scope of Works

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

Progress Update

Mindil has completed the earthworks to the building pad and preparation for the concrete slab works commenced at the end of February. While wet weather has impacted works during February, the project remains on schedule for completion ahead of 30 June 2021 funding deadline.



Building Pad partially prepared for substructure

Infrastructure Services Capital Works Report Project Highlights - February 2021



Project Name: Cedric Davies Community Hub

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 with the project being delivered over three (3) stages.

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 involves 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 3 of the project commenced in January 2021, with preparation and demolition works now complete. Refurbishment works including internal wall re-sheeting, internal / external painting and floor coverings have commenced. Electrical works, including partial rewiring of the building has commenced and mechanical works are on schedule with major sections of ducting being installed.



Electrical works underway



Partial external painting

Infrastructure Services Capital Works Report Project Highlights - February 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 include 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

The following projects are completed and in operation:

- Dimbulah Swimming Pool (January 2021)
- Kuranda Aquatic Centre (January 2021)
- Granite Creek Pump Station (January 2021)
- Mareeba Swimming Pool (February 2021)

In Progress

Centenary Park Booster Pump: Removal of playground equipment (slide and swings) in preparation for installation of the shed has been completed. Replacement play equipment will be installed under the shed as a separate project following completion of the solar installation. New footings for the structure at Centenary Park have been constructed with the installation of the structure set to commence early March.

Infrastructure Services Capital Works Report Project Highlights - February 2021



Mareeba Sewage Treatment Plant: Concrete slabs and ground mounted frames have been completed, with installation of the solar panels ongoing. Completion is anticipated early March, weather permitting.

Mareeba Water Treatment Plant: All site preparation and trenching work has been completed, with installation of panels anticipated to commence mid-March.

Cedric Davies Community Hub: Work is scheduled to commence in early March with the installation of edge protection to the roof. Completion of the Solar Panel installation is anticipated in late March.

Kuranda Water Treatment Plant: Work will commence following the installation of the new structure over the clarifier tank in early April.



Centenary Park - Earthworks and footings for new structure



Mareeba Sewage Treatment Plant - Ground Mounted Framework

Infrastructure Services Capital Works Report Project Highlights - February 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 dismantling of the formwork for the reservoir walls following completion of the curing period. The pipework cut-in was completed in early March, connecting all pipework to the treatment plant. Civform is scheduled to install the new roof structure, construct new footpath and install all electrical components during March.



Formwork removed follow curing of concrete

Infrastructure Services Capital Works Report Project Highlights - February 2021



Project Name: Rankin Street West - Water Main Upgrade

Program: Water

Background

An allocation in the 2020/21 Capital Works Program has been 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

Works commenced Monday 8 February. Council is carrying out the works on the water main using day labour and to date FGF has been engaged to install the sewer. The western section of the new water main from Abbott Street to the Chewko Road roundabout has now been completed.



Installation of the new 300mm diameter ductile iron water main



Construction of new sewer manhole at Abbott Street

Infrastructure Services Capital Works Report Project Highlights - February 2021



Project Name: Kuranda Water Treatment Plant Clarifier Upgrade

Program: Water

Background

An allocation in the 2020/21 Capital Works Program has been provided to refurbish the clarifier and associated equipment at the Kuranda Water Treatment Plant. The clarifier is an integral part of the water treatment process, settling and removing suspended solids from the raw water prior to filtration.

Scope of Works

The scope of works includes refurbishment/replacement of the trolley assembly, scraper arms, flocculator, drive bridge and access platforms to the clarifier at Kuranda Water Treatment Plant.

Progress Update

The clarifier trolley assembly and scraper arms have been fabricated and are programmed for installation early March with completion of works expected mid to late April.



Clarifier trolley assembly



New Scraper arms

Infrastructure Services Capital Works Report Project Highlights - February 2021



Project Name: Railway Avenue, Mareeba - RV and Car Parking Upgrade

Program: Parking Facilities

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 line marking. The project will also include installing solar lights in the area to improve community safety.

Progress Update

Work on site re-commenced 15 February 2021. Several trees and their stumps were removed and select fill was imported to fill the voids left when the concrete slabs were removed from the old railway yards. The installation of the new stormwater system has commenced, and while inclement weather has impacted productivity, the project remains on schedule for completion in late May.



Removing Slabs and Footings - Old Railway



Failing Existing Stormwater System



Compacting Select Fill



Importing Subbase Layer

Infrastructure Services Capital Works Report

Project Highlights - February 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 - February 2021



Locality	Road Name	Start Chainage (m)	End Chainage (m)	Length (m)	Width (m)	Area (m²)
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

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Mareeba Leagues Club



Borzi Park Access, Mareeba



Mareeba Cemetery Access



Roiko Road, Mareeba



Bilwon Road, Bibohra



Malone Road, Mareeba

Infrastructure Services Capital Works Report Project Highlights - February 2021



Project Name: Wolfram Road, Dimbulah - Road Widening Package 1 (Ch 7255 - Ch 8125)

Program: Rural Roads

Background

Various sections of Wolfram Road, Dimbulah are single lane width bitumen seal and are prone to edge wear and edge drop. Commercial traffic using Wolfram Road has increased from 5.6% in 2008 to 15.4% in 2020. A wider sealed road will improve road safety, provide transport efficiencies and cater for increased traffic volumes, particularly for the agricultural sector.

Scope of Works

The scope of works includes the widening of approximately 870 metres of Wolfram Road starting west of the Centis Road intersection, from Ch 7255 to Ch 8125 to a sealed width of 7.5m. As part of the project, existing culverts are being extended to cater for the wider road, several headwalls will be replaced, and existing table drains, and cut-off drains are being cleaned and re-shaped.

Progress Update

Work on site commenced on 3 February 2021 with existing culverts being widened and some headwalls are being replaced. The rain the project is experiencing has caused some disruption but given the construction crew are currently working on culverts, there is not the requirement for completely dry conditions, so work has continued. It is anticipated that practical completion will be reached in late April 2021, weather permitting.



Site office and Compound



Preparation for Apron



Completed Apron



Completed Apron and Headwall

Infrastructure Services Capital Works Report Project Highlights - February 2021



Project Name: Mareeba Shire Footpath Renewals - Walsh Street

Program: Works for Queensland 3

Background

As part of the Works for Queensland program, Council undertaking replacement footpaths identified in the backlog of deteriorated footpaths throughout the shire.

A section of footpath adjacent to the drive through bottle shop at the rear of the Gateway Hotel has deteriorated badly over the past few months and was hazardous for pedestrians. As a short term fix the uneven surface was patched with blade mix until resources were available to undertake the repairs.

Scope of Works

The scope of works includes the demolition and removal of the deteriorated section, replacing the damaged downpipe outlets and forming and pouring the new concrete footpath.

Progress Update

The repair works were undertaken and completed during the last week of February 2021.

Further footpaths will be repaired and replaced under the program.



Before Repair



After Repair

Infrastructure Services Capital Works Summary Report - February 2021

Project Description	Project Stage	Progress comment
Program: 01 Rural and Urban Roads Reseal Program (Renewal)		
2020/21 Reseal & Asphalt Program	Construction	Reseal portion of the project is 74% complete. Quotations to be called for line marking and asphalt works.
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		
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	Construction	Works commenced early February. Currently the culverts are being widened to cater for the additional road width. Practical completion is estimated late April, weather permitting.
DRFA Betterment Co-contribution	Procurement	Shanty and Clacherty Road Tender Reports to be considered by Council at its March meeting. Fossilbrook Crossing awarded, construction to commence after the wet.
Fallon Road, Kuranda - Rehabilitate Pavement, Ch 0.874 - 0.948	Planning	REPA funding application to be submitted QRA for additional damage due to 2021 rain event. Fallon Road Failure Sites - Site 1: Embankment slip previously identified. Site 2: Stormwater outlet pipe and headwall dislodged.
LRCIP - Speewah Road, Speewah - Rehabilitate pavement Ch. 0.345 to 0.5 and refurbish bus shelter	Design	Design almost finalised. Project will commence when Wolfram Road Stage 1 project is completed. Estimated to be late April 2021.
Program: 05 Bridges		
LRCIP Hodzic Road, Oakey Creek, Bibbohra - 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	Council at its meeting of 17 February 2021 resolved not to award the contract. Works to be programmed for delivery in-house after 2020/21 wet season.
Kanervo Road - Replace Timber Bridge over Davies Creek	Procurement	Council at its meeting of 17 February 2021 resolved not to award the contract. Design being reviewed and works to be programmed for delivery in-house after 2020/21 wet season.
Program: 06 Drainage		
Renew Minor Culverts - various locations	Construction	Project completed December 2020.
2020/21 Minor Culvert Renewal Program	Not Commenced	To be programmed.
LRCIP Amaroo Drainage Improvement - Stage 1 of 3	Planning	Project may be completed by contractor due to current MSC workload and approaching funding acquittal dates. Will discuss at next design capital works meeting.
Program: 08 Parking		
TTC - Railway Avenue, Mareeba - New Carpark	Construction	Project commenced 15 February 2021. The stormwater components have been ordered and installation will commence early March 2021. The sub-base layer has been prepared in all areas requiring kerbing which will be placed at the completion of the stormwater drainage system. Wet weather has hampered progress but at this early stage the project is still estimated be completed in May.
Program: 09 Footpaths		
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.
Mt Molloy Footpaths - Replace 920 metres	Procurement	Project will commence after Easter with the section adjacent to the Mt Molloy State School being constructed during the school holidays.
Program: 10 Parks and Gardens		
Shire Beautification Program	Construction	The thinning of vegetation at the lower Bi Lakes commenced in December 2020 and requires approximately 5 more days to complete. The works will be finalised when ground conditions dry to avoid unnecessary damage to park surrounds.

Infrastructure Services Capital Works Summary Report - February 2021

Project Description	Project Stage	Progress comment
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 Commenced	No grants identified as yet.
Mt Molloy Centre Islands, Replace irrigation and kerbing	Planning	Tree types have been determined with works to occur in conjunction with the construction of the Mt Molloy School footpath which starts in the Easter school holidays.
Program: 11 Water		
Chillagoe - Replace existing water reservoirs	Construction	Project construction progressing well despite minor impacts of inclement weather.
Warril Drive, Kuranda - new water main and booster	Construction	Contractor advised there is a long lead time on the booster pump set (as expected) and anticipated arrival time is 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	Project progressing well and due for completion end of April.
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 sourced and purchase order to be issued early March.
Mareeba Water Treatment Plant - filter 3 Install dedicated backwash pumps and reconfigure wash water feed pipes	Design	Project on hold pending outcome of grant application for new filter block.
Chillagoe Water Treatment Plant - Install conductivity meter on raw water transfer line, trend conductivity on SCADA	Construction	New conductivity meter installed needs to be wired into plant and configured into SCADA.
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 commenced early February and progressing well. Anticipated completion date is late May 2021, 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.
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.

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Project Description	Project Stage	Progress comment
Fraser Road Mt Molloy Water Main Upgrade	Construction	Project almost completed, tidy up works being carried out on driveway crossings.
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.
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	Project out to tender less the works that have already been completed.
Kuranda Wastewater Treatment Plant - Replace Clarifier Bridge Drive	Construction	Works scheduled 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	Equipment ordered, long lead time on delivery as the ordered goods come from the USA.
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	Tenders closed 23 February 2021, assessment report to be considered by Council at its March meeting.
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 / early March.
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	Vehicle with fabricator for body fabrication/installation, anticipated delivery is April.
Replace Unit 620 Mitsubishi Dual Cab Tipper	Construction	Vehicle delivered mid-February 2021. Fleet currently fitting out truck with safety and efficiency tools. Will be available for Civil Works early March 2021.
Replace Isuzu Prime Mover Unit 681	Procurement	Prime Mover delivery is scheduled for delivery in March 2021.
Replace Unit 6 Komatsu Grader	Procurement	Grader delivered, Fleet undertaking safety and efficiency improvements prior to release to civil works for training and use.
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	Completed	Installation completed December 2020 with minor changes to dark spots and repairs to ceiling panels addressed.
Kuranda Depot - Install hardstand and improve drainage	Planning	Quotes to be sought, works to commence after wet season.
Rankin Street Office - Minor refurbishments	Procurement	Quotations received and assessments underway.
Program: 17 Community Buildings		
Kuranda Rec Centre - Refurbishment	Construction	Building certifier to review building to ascertain final elements for completion.

Infrastructure Services Capital Works Summary Report - February 2021

Project Description	Project Stage	Progress comment
Cedric Davies Community Hub	Construction	External painting commenced, design of building signage underway, internal demolishing complete, works progressing on fitout. Anticipated completion late May, early June.
Mareeba Swimming Pool Heater	Construction	Solar heating removed from gymnasium roof, repairs to roof and gutter continue.
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 scheduled to commence 8 March followed by new flooring on 15 March. <u>Mary Andrews Garden</u> : Painting programmed to commence 15 March. Mural artist to be engaged. <u>Centenary Park</u> : Internal works completed.
Mareeba, Dimbulah and Kuranda Aquatic Facilities - Remote monitoring upgrade for all swimming pools	Construction	Swimplex requested to provide update on delivery timeline. Initial delays due to COVID.
Mareeba Leagues Club roof repairs	Planning	Contract awarded to Mac Constructions late February 2021 with works programmed to be provided by contractor early March.
Kuranda Community Precinct replace old iron louvres & replace gutters and roofing	Construction	Main roof section and stairwell awnings complete. Remaining awning over verandah area not complete. Weather conditions restricting contractor works. Works to be completed by mid-March.
LRCIP Irvinebank Public Amenities Refurbishment	Construction	Flooring installation to be completed early March.
LRCIP Cedric Davies Community Hub - air conditioner	Construction	Airconditioning replacement underway.
Program: 18 Non-Infrastructure Items		
Kuranda new Cemetery	Planning	Preparation of specifications for new Kuranda Cemetery underway, quotations to engage suitable Consultants to be undertaken in March.
Mareeba Cemetery Mausoleum Wall	Completed	Practical completion reached June 2020. Rectification of minor defects completed in February.
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	Contractor has provided a tentative date of 8-15 March for rectification of outstanding minor defects. Weather and COVID has impacted ability to have contractors attend site.
KIAC - Barron Falls Walking Track Phase 2	Construction	Council have sought Practical Completion from Wet Tropics and Qld Parks & Wildlife and notified WTMA of completion. Minor repairs to damaged sections of pathway is being undertaken. Target completion for project end of March.
KIAC - New Wayfinding Signage	Construction	Supplier has advised that signs have been fabricated, however some components have been delayed. Anticipate dispatch mid-March.
KIAC - Jum Rum Creek Walking Track Rehabilitation	Construction	Works nearing completion, minor delays due to weather. Expect completion March.
KIAC - Jungle Walking Track Rehabilitation	Construction	Works to commence in March.
Program: 23 W4Q3 - Works for Queensland 3		
W4Q3 Lerra Street Kerb & Drain Improvements	Procurement	Project programmed to commence early May at the completion of Railway Avenue Car Park.
W4Q3 Footpath Renewal All localities	Procurement	Quotes have been invited from local contractors for the replacement of 460m ² of cracked footpath on Anzac Avenue closing 17 March 2021. Repairs on concrete footpaths in Walsh Street adjacent to the Gateway Bottle Shop completed 25 February 2021.
W4Q3 Mareeba Pound Upgrade Pound/Facility	Construction	Contractor established at site, works commencing February. Construction of earth foundations completed, underground services laid and concrete slab underway.
W4Q3 Rankin Street Office Air-conditioning Replacement and Refurbishment	Construction	Air-conditioning completed. Refurbishment design under review and contractors being engaged under separate packages.
Program: 24 W4Q4 - Works for Queensland 4		
W4Q4 Bicentennial Lakes Solar Lighting	Design	Order for additional solar lights to be placed with anticipated installation after 2020/21 wet season.

Infrastructure Services Capital Works Summary Report - February 2021

Project Description	Project Stage	Progress comment
W4Q4 Dimbulah Hall replace linoleum flooring	Procurement	Works commenced with joinery and vinyl works expected to be completed by end of March.
W4Q4 Riverside Caravan Park refurbish shower amenity block	Planning	Quotations to be invited for full replacement of structure in lieu of refurbishment.
W4Q4 Dimbulah Caravan Park refurbish dongas and front office facilities	Procurement	Quotations underway, anticipate installation to be undertaken in conjunction with pool kiosk project.
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	Ongoing investigation into renovation timeline. Investigations commenced into required works should evidence of works not be located.
W4Q4 Dimbulah Hall and Shire Hall Park electrical capacity upgrade	Procurement	Load assessment complete, quotes being sourced for minor electrical works. Completion anticipated April 2021.
W4Q4 Dimbulah Swimming Pool Solar	Completed	Works completed late February and in operation.
W4Q4 Mareeba WWTP Solar	Construction	Concrete footings and framing have been installed in preparation for new panels. Installation to be completed early March, weather permitting.
W4Q4 Mareeba Swimming Pool Solar	Completed	Works completed and in operation early March 2021.
W4Q4 Mareeba WTP Booster Pump Solar	Completed	Works completed and in operation early March 2021.
W4Q4 Mareeba Water Treatment Plant Solar	Construction	All trenching work completed. Crane due on-site to start installation of solar panels early March, weather permitting.
W4Q4 Kuranda Aquatic Centre Solar	Completed	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 by late April.
W4Q4 Community Hub Solar	Construction	Edge Protection installed late February in preparation for installation works early March, weather permitting.
W4Q4 Centenary Booster Pump Solar	Construction	New footings and earthworks completed late February. Installation of new shed to commence early March provided weather improves.
W4Q4 Mt Molloy Community Hall Refurbishments	Procurement	Quotations called for electrical works. Council handyperson completing minor building refurbishments. Works to be completed during wet season.
W4Q4 Arnold Park Toilet Upgrade	Procurement	Quotations invited for modular building. To be completed by June.
W4Q4 Cedric Davies Community Hub - Library project	Construction	External painting commenced, design of building signage underway, internal demolishing complete, works progressing on fitout. Anticipate completion late May, early June.
W4Q4 Rankin Street Public Disability Toilet	Construction	Quotations received. Works to be awarded and commence from March, subject to contractor availability.

9.4 INFRASTRUCTURE SERVICES, TECHNICAL SERVICES OPERATIONS REPORT - FEBRUARY 2021**Date Prepared: 22 February 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 February 2021.

RECOMMENDATION

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

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

Investigation activities undertaken in February included:

Activity	Current Requests	Closed Requests
Road Infrastructure Review	70	30
Drainage Investigations	7	5
NHVR Permit Applications	1	4
Aerodrome Investigations	2	1
Traffic Count Surveys	0	3
Parks Investigations	4	4
Dial Before You Dig Requests	0	37

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 February:

Supplier	No. of Tests
Internal	29
External	29

Asset Inspections:

Scheduled inspections of Council's transport infrastructure assets were not carried out during the month of February due to personnel being on leave. February inspections have been spread across January, March and April.

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

Inspections planned for March 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 two (2) sites, a small creek crossing 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 with completion December 2021.
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.

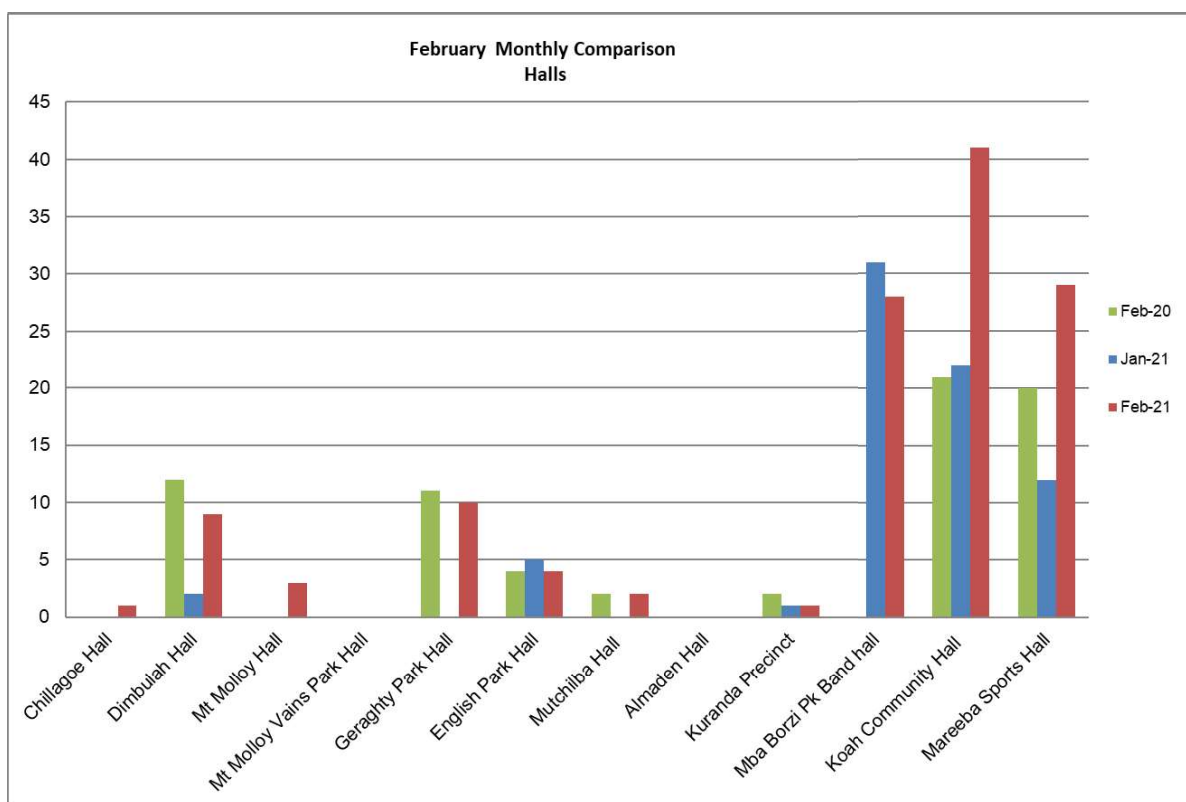
Program	Status
	<ul style="list-style-type: none"> Shanty Creek Road, Creek Crossing - Council endorsement of award at March Council Meeting. Clacherty Road, Creek Crossing - Council endorsement of award at March Council Meeting. <p>Other betterment projects to be identified and submitted in future funding rounds.</p>

Facilities

Community Halls:

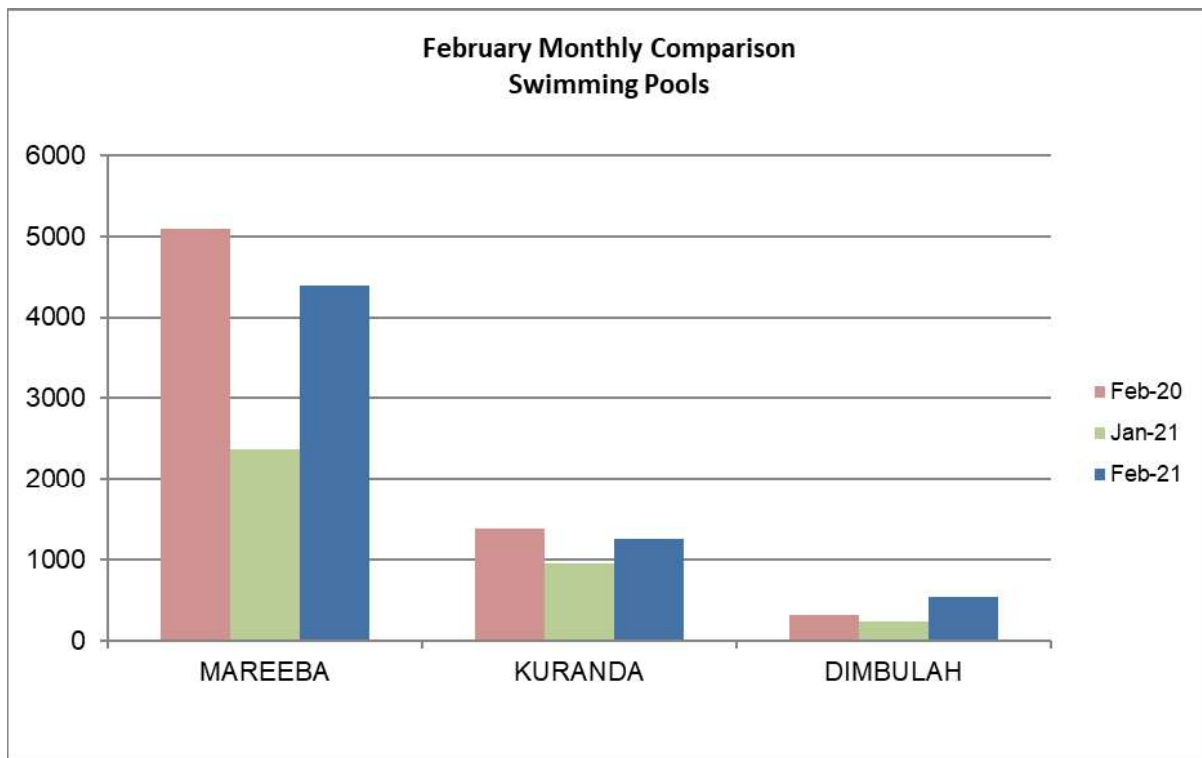
Maintaining safe and efficient access to Council Community Halls is recognised as an important aspect for the community's ongoing wellbeing. All facility users are required to comply with the conditions set out by the State Government's COVID-19 Restrictions Roadmap.

February hall hires have nearly doubled not only compared to the previous month but also to the same period last year. Small community groups and clubs are returning to the halls and recommencing their activities following the emergence of COVID-19.



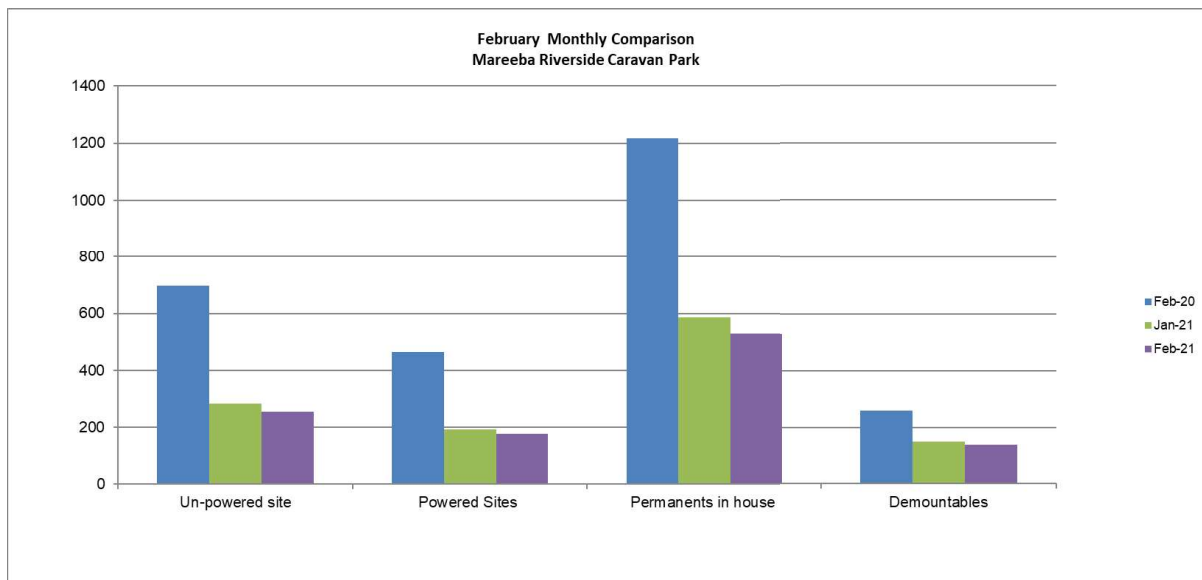
Swimming Pools:

All three (3) pools are now operational, with public safety restrictions remaining in force in line with the State Government's COVID-19 requirements. Increased attendance numbers reflect the commencement of the school swimming and club training.

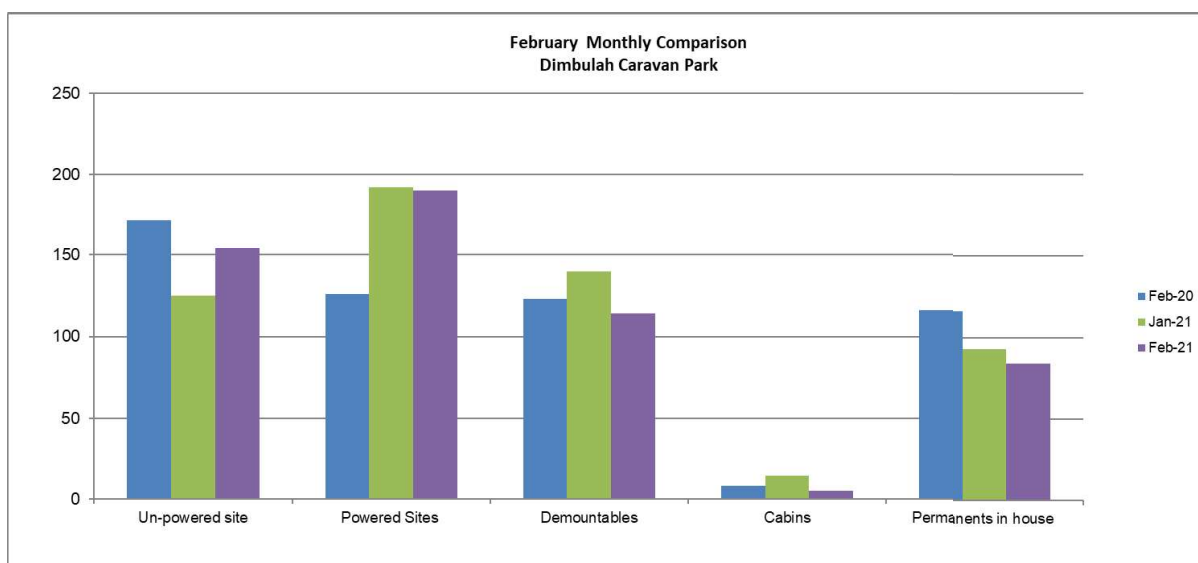


Caravan Parks:

Mareeba Riverside Caravan Park utilisation has reduced when compared to both last month and the similar period for the previous year. Backpacker numbers have reduced significantly which may be attributed to COVID-19 restrictions for travellers and the border closures, in addition to Inclement weather conditions.



Dimbulah Caravan Park utilisation has also reduced slightly compared to last month. Weather conditions have not been favourable with travellers. Figures compared to last year are consistent.



Vandalism & Graffiti:

During February, ten 10 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 and restroom x2 - smashed lights, damaged cisterns and fittings • Mareeba Heritage Centre - damaged fence and gained access to building • Mareeba Sports Hall - smashed outside lights • Mareeba Rankin Street Office - graffiti to outside building • Mareeba Barron River toilets x2 - smashed cisterns and fittings • Mareeba Firth Park - damage to field • Dimbulah Memorial Park toilets - smashed fittings • Kuranda Centenary Park toilets - smashed roll holders
2016/17	\$ 16,546.00	
2017/18	\$ 23,948.00	
2018/19	\$ 14,851.00	
2019/20	\$ 14,211.18	
2020/21	\$ 20,700.88	

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

LEGAL/COMPLIANCE/POLICY IMPLICATIONS

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

FINANCIAL AND RESOURCE IMPLICATIONS

Capital

Nil

Operating

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

LINK TO CORPORATE PLAN

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.

9.5 INFRASTRUCTURE SERVICES, WORKS SECTION ACTIVITY REPORT - FEBRUARY 2021

Date Prepared: 3 March 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 February 2021.

RECOMMENDATION

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

BACKGROUND**Transport Infrastructure**Road Maintenance Activities

During February significant hours were spent attending to fallen trees, both in and out of standard work times, particularly in the Kuranda area.

Minor emergent repairs were carried out where required, however most roads west of Wrotham Park remain impassable due to flooding.

Council's contractor-delivered slashing program in the Mareeba area commenced on 22 February. A round of slashing typically takes four (4) to five (5) weeks. Another round of slashing is programmed for May, and hopefully this will suffice until February 2022.

Slashing also commenced in the Dimbulah area in February. This slashing program is delivered in-house with staff from the Dimbulah depot undertaking the work. The Speewah, Kuranda, Mt Molloy and Julatten areas are slashed more regularly by Council plant and staff due to the increased rainfall in those areas.

The herbicide treatment of the local roads in the Mareeba area was completed early February prior to the slashing program commencing.

Bridges and Major Culverts

In February, the Bridge Crew continued inlet/outlet clearing activities, predominantly in the Dimbulah area along with scheduled bridge and major culvert inspections.

Several concrete footpath repairs were carried out with a major repair in Walsh Street completed under a capital works budget line. The playground equipment and park furniture within the footprint of the new solar installation at Centenary Park Mareeba was demolished and removed to allow for the construction of the large undercover area.

TMR Routine Maintenance Performance Contract (RMPC)

RMPC works were restricted to herbicide treatment of roadside vegetation on the state controlled roads in the north eastern region of the shire and pothole repair.

Some minor emergent works were carried out on the Burke Developmental Road (BDR) and these will continue to be dealt with when requested by TMR.

Parks and Open Spaces

Maintenance

Regular rainfall during February 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 were engaged to help with vegetation control earlier in the month and currently internal staff have been able to stay on top of the workload. This situation will be reviewed later in March and a decision will be dependent on future rainfall.

As reported last month, a tree in the heritage-listed Kuranda Fig Tree Avenue on Coondoo Street is dying and Council has been waiting for a response from the Department of Environment and Science (DES) on Mareeba Shire Council's application for a Certificate of Exemption to remove the tree. Council's application was approved on 5 March 2021 with conditions. At the time of reporting, officers were reviewing the approval to confirm conditions can be met prior to preparing to remove the tree.

Parks and Open Spaces Strategy

Council sought community feedback regarding the current use of parks and open spaces within the Mareeba Shire to inform the development of the Parks and Open Spaces Strategy. A public survey, consisting of eight (8) closed and two (2) open questions was designed to gain a better understanding of which parks and open spaces throughout the shire are most commonly used, how residents use these spaces, and views on the most important aspects of parks and open spaces.

The survey was conducted over two (2) months from 1 December 2020 to 1 February 2021 and 479 responses were received. Initial review of the responses has been undertaken, and in general, there was good representation from all localities and demographic groups. On a Shire-wide basis, respondents identified the top five (5) most important elements as:

- Toilet amenities
- Picnic tables/BBQs/shelters
- Trees and nature
- Playgrounds
- Rubbish bins

Council officers are currently undertaking detailed analysis of the data on locality basis to identify the unique focus and priorities for parks and open spaces for each town in the Shire, as the survey results indicate that these are location specific.

While analysis of the survey results is being undertaken and will be used for preparation of the Parks and Open Spaces Strategy, opportunities for projects to enhance Council's open spaces are currently being developed and will be delivered in the coming months.

Land Protection

Siam Weed: Officers have revisited an infestation of Siam Weed that started on the access road to Ibis Dam in Irvinebank. All seedlings and reshooting plants have been removed from the road and Gibb Creek and Ibis Dam have been surveyed for any plants that may have ventured further.

Parthenium Weed: Land Protection staff have visited all 13 active infestations within the Shire with five (5) of these sites almost to the stage of being declared free of Parthenium.

Whilst officers were carrying out routine inspections of land deemed to be at risk of contamination, one (1) of these properties was found to be infested. The weed front was getting close to the banks of Tinaroo Creek and seeds getting into the creek would have created a large and expensive removal project. Staff are working in with the landowners removing all plants and installing bunded walls to capture any spilt seeds. The property will be monitored to ensure that the owners are maintaining an effective control program.

Frogbit on the Barron Catchment: Chinaman and Atherton Creeks have had all the weed scoured out with recent flood events. Working with the Muluridji Group, who have provided three (3) workers for six (6) days, officers have surveyed both creek systems hand removing all Frogbit that was still lodged in the creek side vegetation. The upper creek system down as far as Atherton Creek bridge over Chewko Road is now totally clear of the aquatic pest.

Gamba Grass: Council's annual roadside spray program has commenced with all roads throughout the MDIA being treated.

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

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

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

9.6 INFRASTRUCTURE SERVICES, WATER AND WASTE OPERATIONS REPORT - FEBRUARY 2021**Date Prepared:** 1 March 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 February 2021.

RECOMMENDATION

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

BACKGROUND**Water and Wastewater Treatment:**

All treatment plants performing satisfactorily. Water demand for February 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)	5,831	714	165	165	53
Number of Connections	4,385	982	157	272	113
Average daily water consumption per connection (L)	1,330	727	1,051	665	504

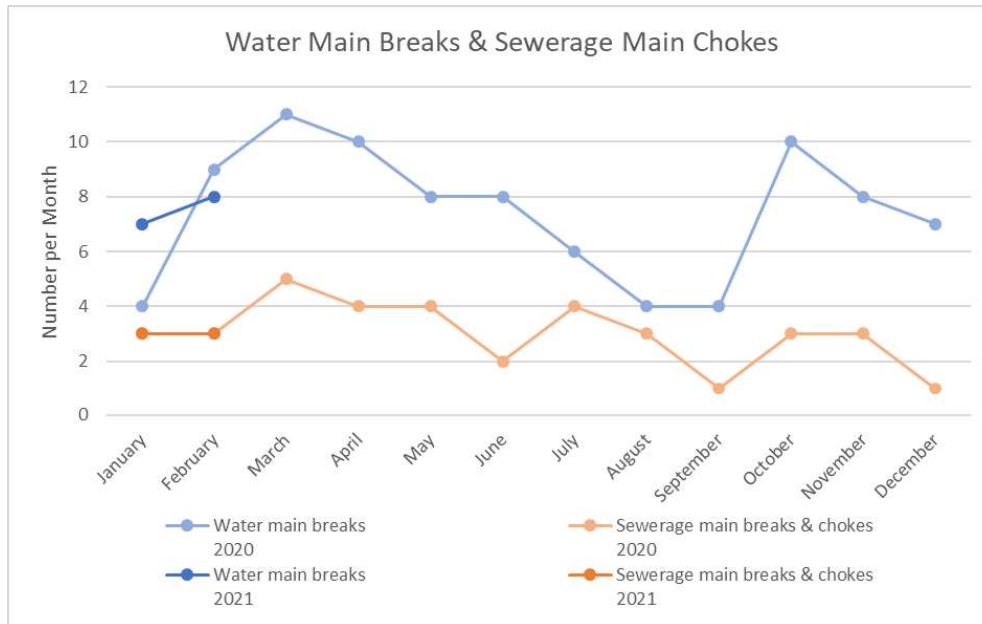
* Mt Molloy is an untreated, non-potable water supply

Wastewater Treatment	Mareeba	Kuranda
Wastewater Plant average daily treatment (kL)	3,381	211
Number of Connections	3,424	346
Average daily inflow per connection (L)	987	610

Water and Wastewater Reticulation:

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

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



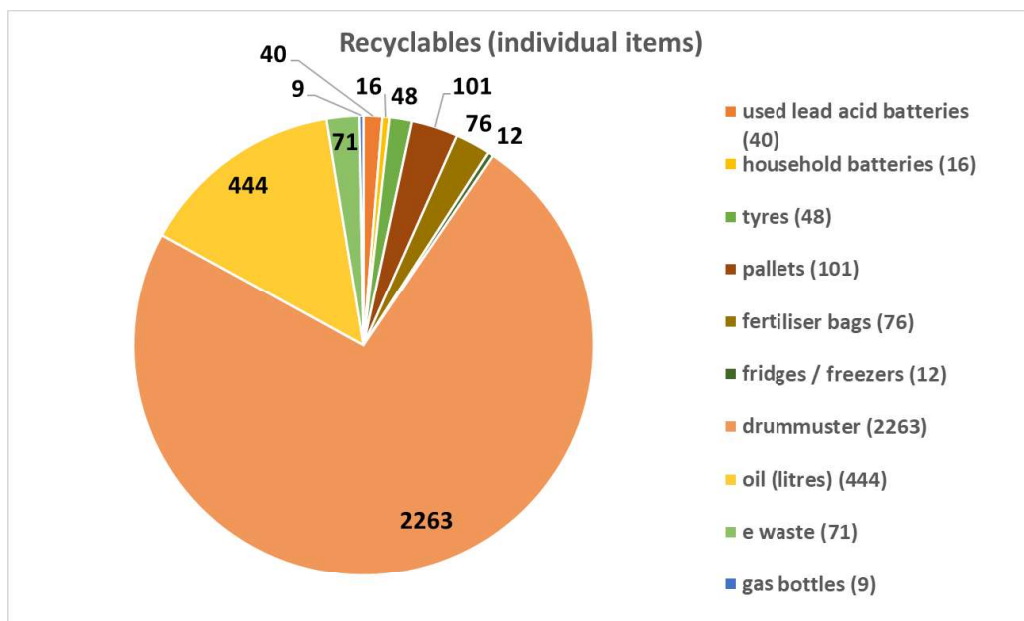
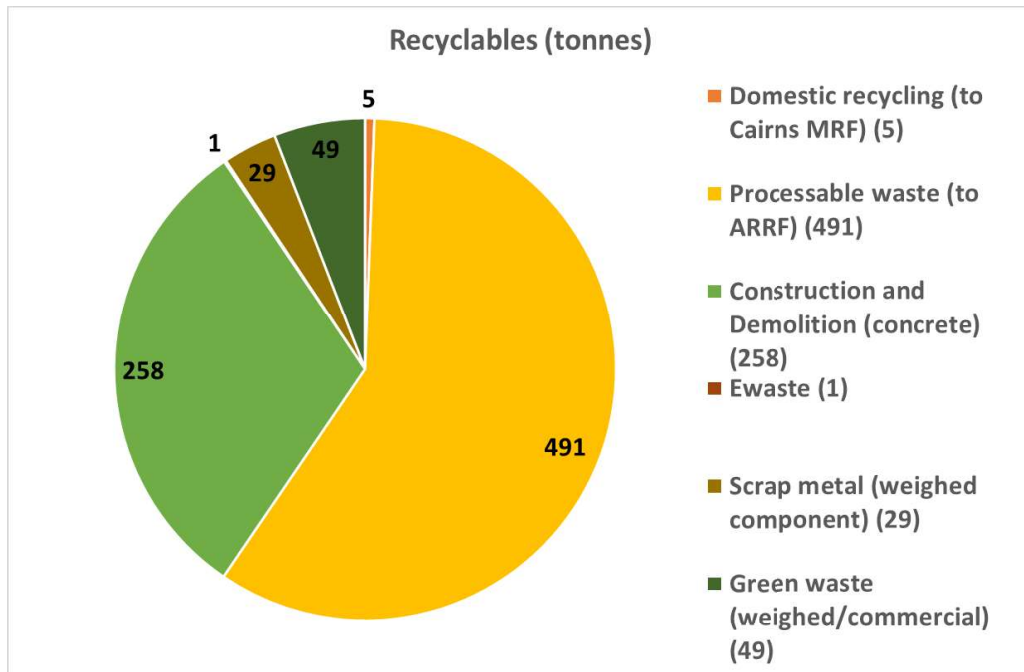
Waste Operations:

All transfer stations and Mareeba landfill are currently operational.

Recycling

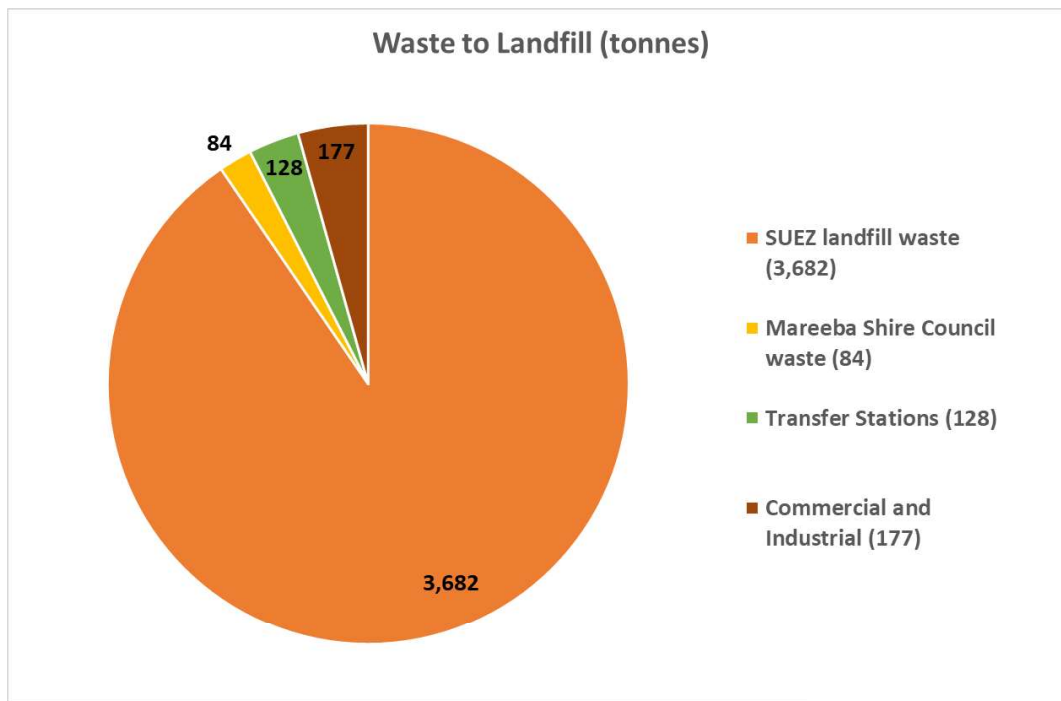
Waste material collected at each of the waste transfer stations are either deposited directly to the Mareeba landfill, recycled or transported to the SUEZ Advanced Resource Recovery Facility (ARRF) in Cairns for processing. Recyclable concrete increased this month due to the Railway Avenue Car Park Upgrade project.





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 six (6) illegally dumped tyres through Mareeba Waste Transfer Station during the month of February.



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.