



# Engineering and Commercial Infrastructure - Engineering Services

Monthly Review > 14 February 2015 to 13 March 2015



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# **OVERVIEW**

#### Overview

This report is for Engineering Services activities for February/March 2015. Please note that references to the February/March 2015 reporting period covers the period 14 February 2015 to 13 March 2015. Significant items in this period include:

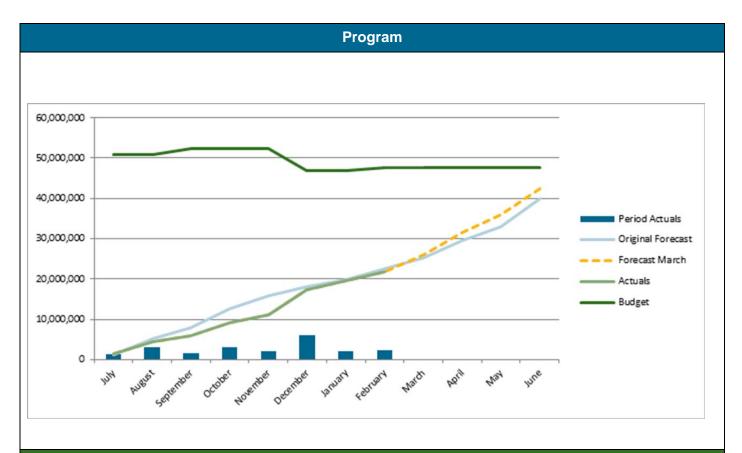
- Measures to accelerate the Capital Works Program Footpath Projects were introduced during the period and will continue to ensure that the Program is delivered. Some minor interruptions were experienced due to the weather; however, general works proceeded well during the period.
- Favourable weather conditions have provided for minimal delays and good outcomes with maintenance
  activities on both the Sealed and Unsealed Road Networks being progressed in all areas in line with the
  Maintenance Programs and Client Requests.
- Open drainage maintenance remains a high priority with routine maintenance being undertaken in line
  with the Program and further special maintenance activities (e.g. de-silting, re-profiling and vegetation
  clearing) being scheduled for this financial year when weather and ground conditions allow.
- A Civil Crew comprising both Civil Operations and Civil Projects personnel was mobilised for a 12 day period to assist Rockhampton Regional Council (RRC) in the post Cyclone Marcia clean-up phase.
- A team of 8 SES volunteers were also deployed to Rockhampton to assist with the clean-up post Cyclone Marcia and have now returned to normal duties.



**Director Engineering and Commercial Infrastructure** 



# **CIVIL PROJECTS**



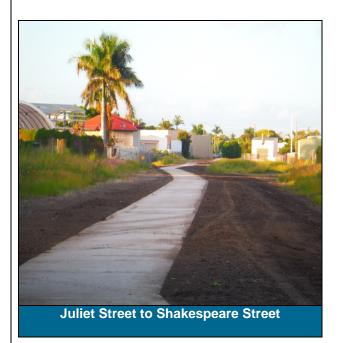
## **Comments**

- Expenditure for the period was lower than expected. Note that work to a value of approximately \$700K was
  completed on the CBD Project, but not yet certified for payment, and as such is not included in the period's
  expenditure totals. Current expenditure is approximately 50% of Program allocation with a further 35%
  committed for expenditure.
- The weather during the period caused some minor delays but these were not significant.
- Conditions at Murray Creek on Rostirollas Road were favourable during the period and the team were able to
  install the deck units on the bridge. This was a significant milestone on the Project as the local landowners now
  have an emergency exit. Approach works are in progress.
- Works continued on the Cross City Link. Currently there are three stages under construction along the old Rail Corridor between:
- 1. Archibald Street and Webberley Street
- 2. Webberley Street and Bridge Road
- Juliet Street through to Shakespeare Street and then Queens Park and via Chain Street through to Victoria Street
- All 3 projects above are well advanced with work involving construction of concrete and/or asphalt paths, traffic
  island road crossings and minor park facilities. All 3 projects should be complete by mid-April 2015. These
  projects form part of the Active Towns Program of Works.
- In addition to these paths, construction of the pedestrian path along Tolcher Street between Phillips and Baxter Streets continues and should also be complete by April 2015.
- Work continued on the upgrade of the Grass Tree Beach Boat Ramp and car park. The lower section of boat ramp construction needed to be coordinated with the tide times to ensure works occurred during low tides. This required the crew to work a variety of different work periods to ensure that the ramp re opens on time (this

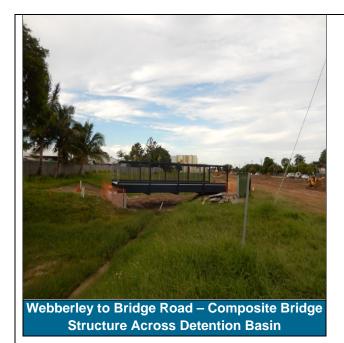


included working a 1am shift on the night of the Cyclone Marcia). The ramp is expected to be in use for the Easter break.

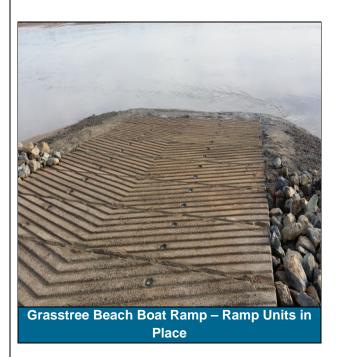
- Whilst in the area, the same crew is undertaking the completion of the connection of the pedestrian/cycleway between the beach and the Grasstree properties in and around Hall Street. This is also expected to be generally completed by mid-April 2015.
- Progress continued on the Asphalt Resurfacing Program.
- Next period should see the commencement of :
- 1. Drainage works along Nelson Street between Victoria and Gordon Streets
- 2. Heath Road Sporting Complex Access (access to the new soccer fields)
- 3. Silingardies Road pavement improvements
- 4. Repair to the main drain along Bridge Road (where it turns prior to Elamang Street at the end of the football fields)
- 5. Completion of installation of the plinths in Jubilee Park in preparation for Anzac Day
- 6. Improvement and sealing of the Willets Road Car Park to compliment the recently completed Gooseponds walking track
- 7. Construction of a pathway along Bridge Road between the Stadium and the Esplanade

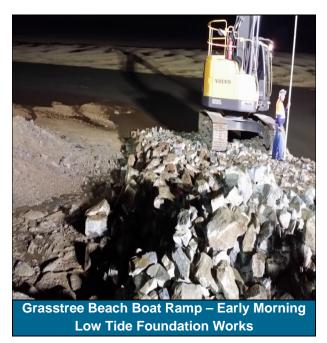






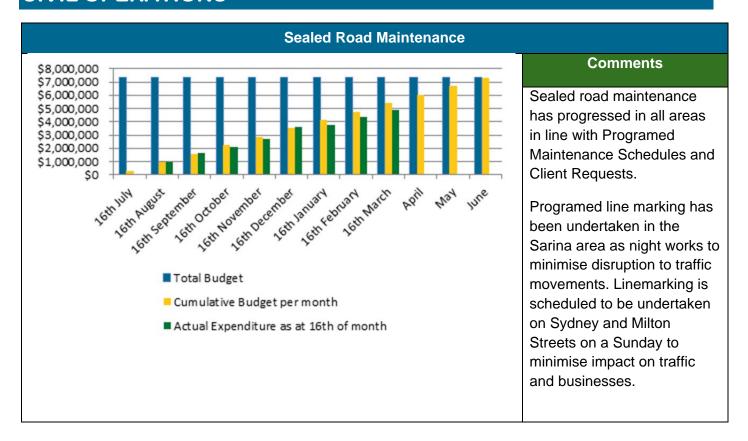


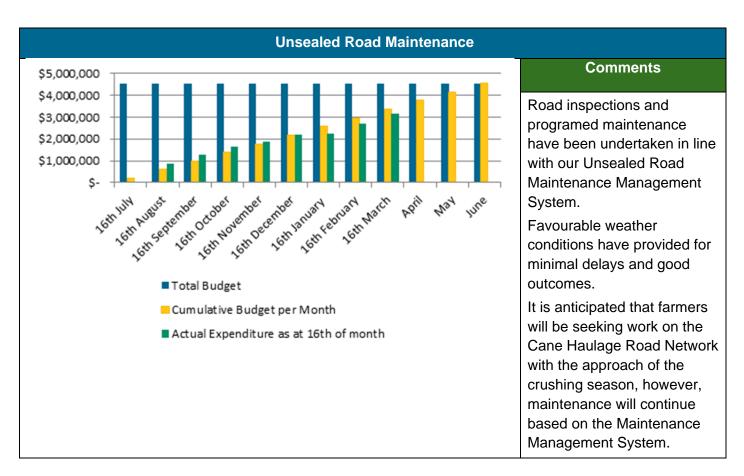




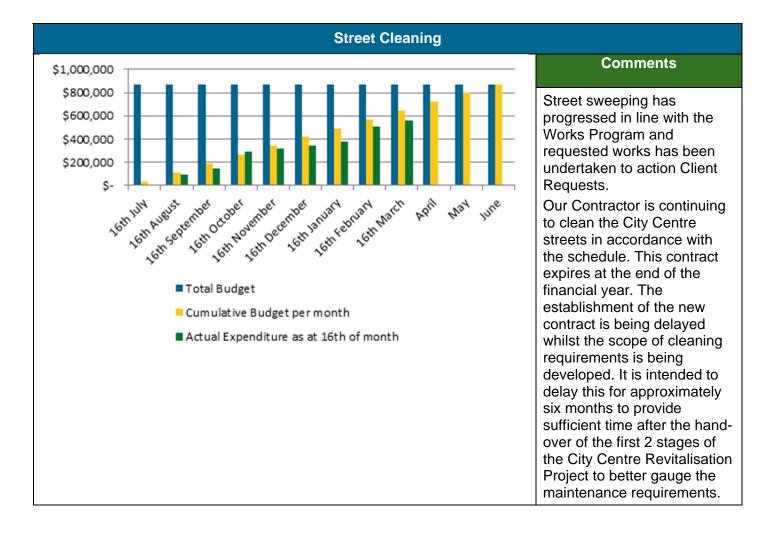


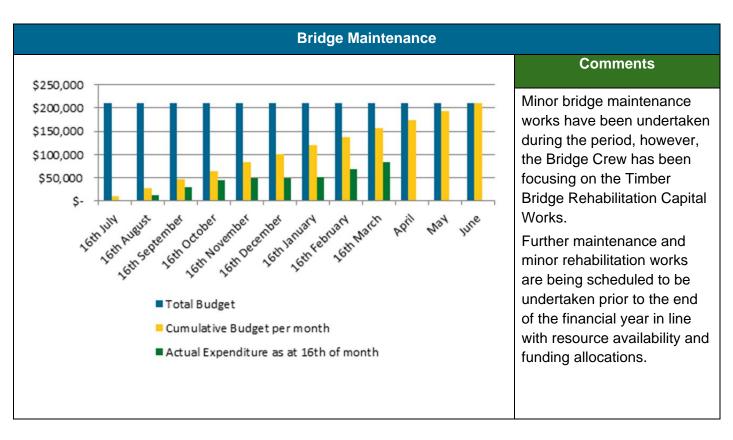
# **CIVIL OPERATIONS**



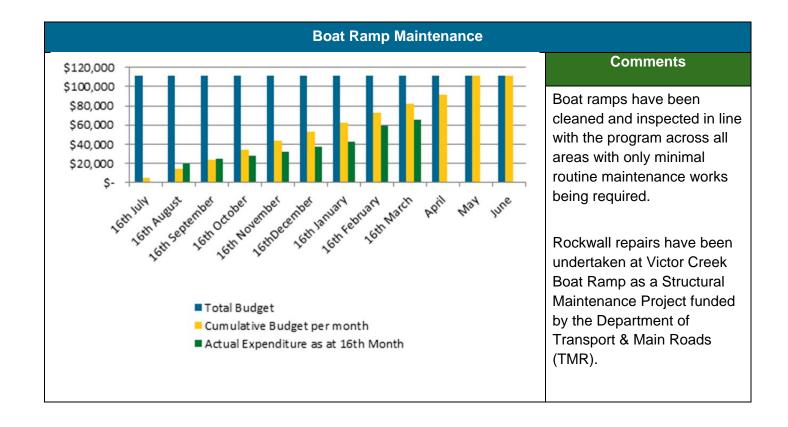


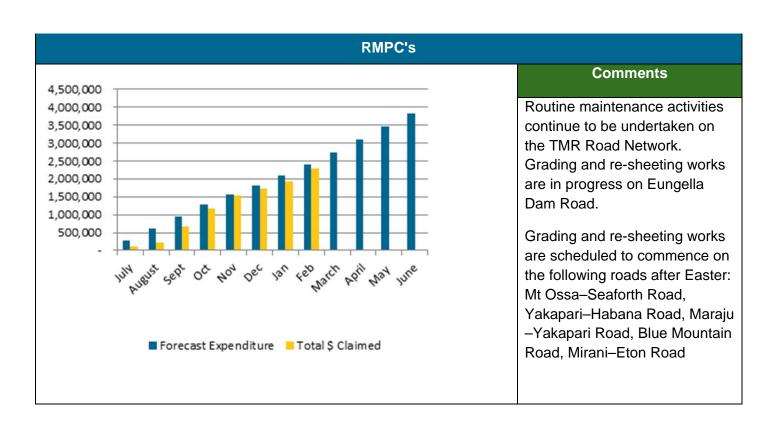














# Victor Creek Boat Ramp - Rockwall Repairs





#### **NDRRA Restoration Works**

#### **Overview**

- Liaison and response to requests for information are continuing with Queensland Reconstruction Authority (QRA). There has been no advice on timing of the Federal Government Audit Process.
- QRA representatives are scheduled to visit Mackay in mid-March 2015 for a Workshop on the latest interpretation of the Guidelines, in particular, emergent works and financial eligibility.
- A Civil Crew comprising both Civil Operations and Civil Projects personnel was mobilised for a 12 day period to
  assist Rockhampton Regional Council (RRC) in the clean-up phase of the post Cyclone Marcia emergent works.
  This assistance was greatly appreciated by RRC and thanks have been extended to those who volunteered to
  assist.



# **TECHNICAL SERVICES**

- Development and design of Projects within Capital Works Program (CWP) for 2013/2014, 2014/2015, 2015/2016 and 2016/2017
- Development of draft 2015/2016 and 2016/2017 Capital Works Program and briefing of Council for subsequent adoption to allow design continuity
- Development of 20 Year Capital Works Program relating to roads and drainage infrastructure for inclusion in and generation of Long Term Financial Plan. Draft submissions completed for preparation of Long Term Financial Forecast.
- Discussions with service providers to streamline design and construction processes
- Extend assessment to track actual unit rates to build history for future estimates following implementation of Department of Transport and Main Roads (TMR) specifications and estimates. Incorporation of risk allocation into estimates process.
- Development of a series of Business Cases for upcoming Capital Works Program Projects for submission to and consideration by the Transport and Drainage Advisory Board
- Compilation of Report to Council on Reed Street Extension and Alignment issues
- Participation in Briefings to Council on Malcomson/Palmer Road Realignment Notices and Reed Street Extension Alignment
- Development of @RISK software incorporation into estimate spreadsheet for application to Level 1 projects

# **Survey Services**

#### **Overview**

- 60% of 2015/2016 CWP surveys completed
- Setout: Sewer Rising Main Botanic Gardens, Water Main Kathleen Street, Sarina
- Undertook survey works to record and map erosion at Bayersville Landfill site
- Cadastral surveys completed for: Juliet/Penn Street Openings, Mt Martin Road Opening

#### Digital Cadastral Data Base (DCDB)

- Coordination of cadastral reference marks and office plotting continued for upgrade of DCDB in Habana/Balnagowan area
- Coordination of cadastral reference marks and office plotting started for upgrade of DCDB in Eton/Sarina Range area

# **Australian Height Datum (AHD)**

 High order levelling of survey marks from Sarina to Ilbilbie and from Sarina to Armstrong Beach processed by DNRM and added to State database

# **Highlights - Training Staff in Use of Survey Equipment**

The survey section has limited resources and time to complete survey works. CWP is given priority as deadlines for design have to be met and this means other small survey jobs have to be scheduled in between the CWP surveys. This isn't always ideal as it could lead to delays in construction and investigations.

To keep small jobs progressing, the surveyors regularly train other staff to use survey equipment.

Trained staff can use survey equipment to setout works and complete small investigations jobs without having to wait for the surveyors allowing the surveyors to direct their expertise to where it is really needed.





## **Design Services**

#### **Capital Works Program (CWP)**

- 109 of the 110 Design Projects in the 2010/2011 Capital Works Program have been completed (99%). The Project remaining is design works only associated with the reconstruction of Archibald from Connors to Milton and is delayed by confirmation of land acquisitions and proposed future Realignment Notice issues associated with the Milton/Archibald intersection.
- 113 of 114 Design Projects in the 2011/2012 Capital Works Program have been completed to date (99%). Project remaining is Milton Street Construction (Farrellys to East Boundary).
- 96 of 98 Design Projects in the 2012/2013 Capital Works Program have been completed to date (98%). Projects remaining are the Archibald Street/Central Park Drive intersection design only and the completion of floodway extensions on Gakowskis Road.
- 86 of 88 Design Projects in the 2013/2014 Capital Works Program have been completed to date (98%). Projects remaining are the East Boundary Road reconstruction and the Victoria Plains Road intersection upgrade.
- 55 of 65 Design Projects in the 2014/2015 Capital Works Program have been completed to date (85%).
- 36 of 74 Design Projects in the 2015/2016 Capital Works Program have been completed to date (49%).

Those outstanding require land acquisitions, valuations and input from service authorities which are delaying completion of the design.



- Commencement of CBD Drainage Study Data collection of underground asset data and survey and detailed design have commenced
- Commencement of Shellgrit Creek Outlet and alternative Beach Outfall Drainage Designs Detailed survey and design brief development have commenced
- Detailed design of Glenpark Overpass Duplication proceeding including detailed geotechnical investigations
- Commencement of Fourways Drainage detailed design engagement

# **Major Projects for Delivery Next Month**

- Swayne Street drainage
- East Gordon Street bridge rehabilitation and widening for shared pathways

#### Landscape Issues

- Commenced Detailed Design for Bluewater Trail (BWT) Sections Bluewater Quay (BWQ) to River Street Boat Ramp, Stages 2 & 3 - Due to funding availability these will have to be delivered via Capital Works Program at a later stage. Planting Plan 75% complete and artwork to be developed for approval by VAAC.
- Disabled Access (DA) Audit Priority Listing for 2015/2016 Rectification Projects (Mackay-Wide) completed and design of Bus Stop Compliance Projects in CBD, West Mackay and North Mackay commenced with 5 Design Projects completed and 2 Design Projects pending
- Finalising updates of 8300 Supplementary Specification Suite 95% complete. Dowdens engaged to update
  Irrigation Standard Drawings to coordinate with updates. Updates to Style Manual ongoing with draft anticipated
  to be available in June/July 2015
- Ongoing Contract Administration advice and services on City Centre Revitalisation Project Tree/plant inspections and RFI advice provided
- Progressed cost estimate rates for landscape items for inclusion into MRC Cost Estimates System through liaison with Parks to establish rates
- Design development of landscape concepts for Evans/Grendon Road intersection Currently awaiting feedback from Economic Development (Client)
- Jubilee Park Upgrade:
  - Stage 1 civil works completed Flagpoles and lighting to be installed March 2015 and gardens and artwork to be installed March/April 2015
  - Ultimate Design Staging Proposal and Estimates completed
  - Stage 2 Design and Estimate completed Photographic images for Stage 2 artwork (image cast plaques) being collated from MRC libraries, regional museums, Daily Mercury and web search
  - ANZAC Artwork Stage 1 Artwork (11 of 13 pieces) completed and being freighted to Mackay. 2 pieces outstanding to be forwarded ASAP for ANZAC Day commemorations.
- Redesign of 2 x Roundabout Landscape Designs for Mackay-Bucasia Road (Eimeo and Holts Road) completed
   Irrigation Design pending
- 4 x Standard Drawings (recycled plastic bollards and barriers) completed
- Developed presentation material on behalf of Parks (Quota Park Playground)
- Liaison with TMR on Showgrounds Intersection & Gordon Street medians

# Traffic and Investigation Issues

#### **Active Towns Program:**

- Active Towns sponsored and attended the 2015 Sports Expo. Distribution of the new Rides of the Region and Gooseponds Walk brochures took place. Free Active Towns merchandise, water bottles, bicycle bells and key rings were well received.
- Planning for Bike Week 2015 is progressing well. Currently have two confirmed sponsors, two we are negotiating with 2 other sponsors and 9 confirmed stallholders for Cyclefest Mackay. The full Bike Week Program will be confirmed in March.
- Construction on the Gooseponds missing link is progressing with proposed completion now mid-February (weather permitting). An Official Opening event will be planned for late March.
- Planning for Ride2School Day (13 March 2015) is progressing. Every school in the region has been offered
  the opportunity to register for an event kit. The kits will provide schools with promotional material for the day,



water bottles to be offered as prizes and boxes of whole fruit. To date 4 schools have registered. Registrations close on 4 March 2015.

 Plans for April School Holiday Bike Education Courses have been completed. Marketing will commence in March.

# **Traffic Counts:**

- Maintain Count Program for Capital Works Program
- Malcomson Street review
- Complete Boat Ramp Traffic Counts
- Speed Complaint for George-Jane Street
- Speed Complaint for Emperor Drive and Trout Avenue Intersection
- · Speed Complaint for Quarry Street
- Walkerston Area Traffic Counts for average trip generation rates
- Install Traffic Counters for Henman Street and Paradise Street post construction

# **Drainage Inspections:**

Monash Way Open Drain - Inspection Report finalised and concept for diversion adjustment completed

#### Works On Roads - Ongoing Projects:

- Ergon Energy Milton Street Request for amended cable route for 33kV power supply. Restoration works completed and warranty letters issued
- ISGM National 1397 Midge Point Road, Midge Point Routine site inspection has revealed that the work had already been completed without Council approval or Traffic Management Permits. Discussions with ISGM reveal that ISGM is now instructing Contractors to make contact with Council prior to commencement of work. No action to date.
- Ergon Energy Gravinos Road, Victoria Plains Ergon installation completed
- Ergon Energy 11KV supply to Bondi Court In Design
- Ergon Energy Sydney Street Markets Amended 11KV pole position agreed. LONO issued. Works programed mid-April 2015
- Thiess Contracting Aus Boring Intersection Lagoon and Jackson Streets Onsite inspection to determine optical fibre route

## Works on Roads Inspections

#### Ergon, Telstra and Other Utility Provider Inspections

18 worksites have been inspected and letters will be issued indicating commencement of a 6 month's warranty period.

Inspection will be performed when Ergon has notified the Works On Road Officer of Defect completion. If works are repaired to Council's requirements, a letter for <u>6 month's warranty</u> will be issued.



# **EMERGENCY MANAGEMENT**

#### Overview

# **Community Education**

- Various interviews with radio and television media preparations for TC Marcia and current updates to the community. Post interviews also conducted on the events from TC Marcia and the response by MRC.
- Various updates on social media regarding TC Marcia on preparatory actions and current status of TC Marcia to the community.

#### **Exercises**

Nil exercises to report for this period.

## **Operations**

Tropical Cyclone Marcia, 19-20 February 2015 – no issues for MRC. Support provided to Isaac Regional Council
in the establishment of an Evacuation Centre at the Sarina Cultural Hall (44 evacuees). Council staff (Parks and
Environment, Electricians, Civil Operations/Projects) and Mackay Regional SES crews deployed to the
Rockhampton Region to assist with response and recovery operations.

# Planning - Mackay Local Disaster Management Plan and Operational Plans

- Continuing work with Inspector General Emergency Management internally in Council on various Disaster Management (DM) Sub Plans. Inspector General Emergency Management Survey completed by Emergency Management on behalf of Council on 17 February 2015.
- Further development work conducted on the Interim Cyclone Shelter Operational Sub Plan to refine the
  equipment needed for the Cyclone Shelter. Further work will be completed on this Sub Plan in light of the Action
  After Review (AAR) Recommendations from Livingstone Shire Council post TC Marcia.
- Mackay LDMG conducted on 2 March 2015.
- Mackay DDMG conducted on 26 February 2015.

# **Projects/Mitigation Strategies**

- Northern Beaches Cyclone Shelter stationary and equipment 98% complete and is now located in the Cyclone Shelter ready for an event.
- SES ICT Function Requirements Implementation Project continuing. All stakeholders are involved with this
  Project. Last meeting conducted on 17 February 2015 for a current update on Project deliverables and budget
  discussion.
- Coastal Hazards Adaptation Study, Stage 1A completed. Stage 1B will be completed by April 2015. Gathering of information is currently being undertaken.
- CBD Flood Study Survey currently being undertaken. Completion due by April 2015.
- Further investigations continuing about the best option for a hardstand at Eungella Day Care Hall for the new generator.
- Draft SOPs for the new generators (Midge Point and Eungella) completed and distributed for feedback. It was
  identified that the earth lead poles were not connected to the generators. Property Services has organised for
  the electrical work to be completed on 20 March 2015. Both generators will be installed in their respective
  locations in the next reporting period.
- Special Needs Working Group Continuing work with Special Needs Groups in the Mackay Area.
- Emergency Management Team has been assisting the NAS/Propel Transition Team with Business Continuity Planning for Wellington Street. Last meeting held on 9 March 2015.

# **Emergency Management Capital Projects & Facility Upgrades**

- Application submitted through the SES Non-Recurrent Grants for Midge Point SES awning and electrical work.
   Letter of Application Acknowledgement was received from State Government on 20 February 2015.
- Sarina SES facility is 99% complete. Waiting on the Final Building Certificate and plumbing paperwork. Minor works to be completed. Inspection on the shed and surrounding grounds conducted on 18 February 2015.



Quotes for Calen SES facility footpath between car park and building being sourced by Property Services.

#### General

- Five (5) staff members are continuing studies (i.e. Advanced Diploma of Public Safety (Emergency Management). Next weekly block is 23 - 27 March 2015. Another Council employee has commenced the Advanced Diploma conducted in Cairns. Costs associated with the course (e.g. travel, meals and accommodation) are paid by State Government Public Safety Business Agency (PSBA). No cost to Local Government.
- A Recruitment Drive for further Cyclone Shelter Staff will be undertaken in the next reporting period. Cyclone Shelter Training has been organised for 14 April 2015.
- Emergency Management Coordinator attended the PCYC Emergency Services Cadet Awards night on 18 February 2015. The Mayor and Deputy Mayor were also in attendance.

#### **State Emergency Services**

#### Overview

#### **Local Controller**

- During this reporting period the Mackay Regional SES Unit assisted areas to the south affected by TC Marcia.
  Two deployments were completed: the first with 16 Volunteers and the second with 11 Volunteers giving up their
  time to assist these communities. Tasks performed on these deployments included protection of property and
  personal effects, temporary repairs to storm damaged homes, removal of trees and general debris affecting
  access.
- The Mackay Regional Unit has maintained its capacity to deploy, at short notice, to out of area communities
  affected by disasters every year since its formation in 2008. Fifty percent of the Volunteers on these
  deployments were deploying for the first time further embedding operational experience into the next generation
  of MRU Volunteers.
- A new intake of SES Volunteer Recruits was commenced in February 2015 with 15 new members commencing their Basic Training. It will be approximately three months before these recruits can be utilised in an operational context.

# **Activations for the month**

- 2 February 2015 Koumala Tree fell on roof tree removed and roof tarped
- <u>19 February 2015 Sarina</u> Assisted Evacuation Centre and placement of storm shutters. Overnight standby at SES shed. Storm Damage Sandbags placed at Sarina Hospital
- 21 25 February 2015- MRU First deployment of Volunteers deployed to areas effected by TC Marcia
- <u>28 February 2015 Mackay</u> QPS Activation Kinchant Dam. Possible missing person in Dam. Floodboats from Mackay and Mirani were utilised
- <u>28 February 4 March 2015</u> Second deployment of Volunteers deployed to areas effected by TC Marcia
- 12 March 2015 Mackay Storm Damage tarped leaking roof in West Mackay

#### **Public Safety/Community Education**

- 16 & 23 February 2015 Recruiting conducted for Mackay and Mirani Groups
- <u>27 February 2015 Fundraising</u>
   Volunteers operated a Sausage Sizzle a Mackay Bunnings



# **Major Training Events**

MRU Training and Community Hours										
	Operations	Training	Administration	Maintenance	Community Education	Total				
Multiple Group Response	1080	214				1294				
Midge Point		29				29				
Calen		77				77				
Mackay	42	582	90	49	6	769				
Mirani	1	113	17	24	65	220				
Sarina	125	85	22	24		256				
Campwin	8	34		8		50				
Armstrong		32		5		37				
Koumala		24				24				
Total	1256	1190	129	110	71	2756				

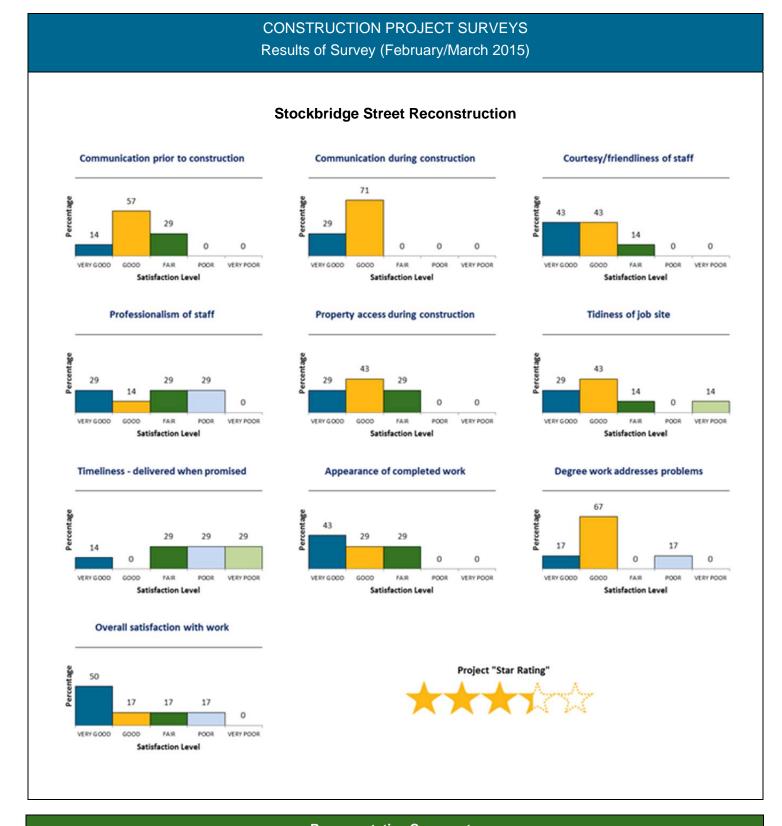


# **QUALITY ASSURANCE**

2013/2014	Feb 2014	Mar 2014	April 2014	May 2014	June 2014	July 2014	Aug 2014	Sept 2014	Oct 2014	Nov 2014	Dec 2014	Jan 2014	Feb 2015
No. of Completed Client Requests Surveyed for Satisfaction Levels*	327	463	293	556	331	321	363	277	260	392	284	328	606
No. of Completed Construction Projects Surveyed for Satisfaction Levels	0	0	1	0	2	1	0	0	1	0	0	0	2
No. of Client Satisfaction Survey Results Finalised	2	0	3	0	3	1	3	3	0	0	3	3	1
No. of IMS Documents Reviewed and Updated	4	6	4	3	4	4	0	6	1	5	15	12	12
No. of New IMS Documents Commenced	3	1	1	0	2	1	3	0	0	3	1	6	4
No. of Work Site Visits	20	18	15	16	5	7	3	5	1	1	3	10	9
No. of Internal Quality Audits Conducted	1	1	2	2	2	2	1	0	2	0	0	2	2
No. of Staff Training Sessions Conducted	1	1	2	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil

<sup>\*</sup>Includes surveys undertaken for Parks & Environment





# **Representative Comments**

- Apart from the grass the rest of the work is good
- Grass on verge not watered and now very shabby (grassy clumps) with big crack in verge in front of my house. I would like new grass.
- Disgusting rubbish and cigarette butts
- · Roadwork good
- · Not enough watering after grass was installed
- No problem before. Access is now difficult with roundabout in front of my driveway. Lamp post is in the way too. The

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lamppost should be shifted.

- Footpath grassing very bad Grass used on completed footpath full of rubbish
- Would have liked option of parking bays declined by No 21