

# ENGINEERING SERVICES HIGHLIGHTS AND SIGNIFICANT ISSUES REPORT – MONTH ENDING MARCH 2010

**Author: DIRECTOR ENGINEERING SERVICES**

## **Purpose**

To review Engineering Services Department highlights and significant issues for the month ending March 2010.

## **Background and Discussion**

Highlights and Significant Issues for period are as follows: -

### **ENGINEERING SERVICES MANAGEMENT**

#### ***Coordination of project meetings, briefings and reports on the following projects:***

- Meeting with Lance Murry – Hospital Bridge Fishing Platform, Constant Creek & East Point
- Meeting: Beach Protection Plan
- Finalisation of Botanic Gardens Master Plan
- Councillors Workshop – Eungella
- Queensland Infrastructure Summit
- Coordinated response to Cyclone Ului

#### ***On-going involvement in the following areas:***

- Mackay Water Recycling Project (i.e: PCG and PAB), Mackay Development Advisory Board, Management Leadership Forum and Sustainable Futures Committee Meetings.
- LGEG, Transport Working Group and Paget Depot Project Steering Committee.
- Safe Plan, Design and Construct Review Meetings and SES matters.
- CBD Economic Development Advisory Committee.
- Local Disaster Management Group and Rural Advisory Committee.

## CONSTRUCTION

### *Works have been substantially delayed due to wet weather*

#### *Works have been completed on the following projects:*

- Kennedy Street - road upgrade
- Gregory Street - bus shelters
- Barbara Street, Mirani
- Flood damage package 1
- Flood damage package 2 - Mackay Urban
- Bus shelter/stops upgrade 25%
- Pittman Street – traffic calming
- Mansfield Drive
- Bedford Road

#### *Works have been substantially completed on the following projects:*

- Alfred Street between Wellington and Macalister – waiting on Ergon undergrounding of power
- Courtney Gap Road
- Flood damage package 3 – Mackay Rural
- Pacific Drive
- Bus shelter/stops upgrade 55%
- Bridge Road – car park at Hospital Bridge
- MECC car park
- 15<sup>th</sup> Lane

#### *The following projects are in progress:*

- Flood damage package 4 – Sarina saturation
- Flood damage package 6 – Mackay outer urban
- Shoal Point Road – reconstruction
- Blue River Trail footpath
- Gregory Street – resurfacing
- Leisure Court – connection road
- Crightons Road – depot access
- Devereux Creek Road
- Railway Square upgrade
- Rifle Range Road
- Roberts Avenue – reconstruction
- Grasstree Road
- Field Street – upgrade Bridge Road and Webberley Street
- Farrellys Road, Connors Road to Milton Street
- Eversleigh /Sarina Beach intersection

## CONSTRUCTION

### Grasstree Road:



### *The following projects have been awarded but not yet started:*

- Brisbane Street reconstruction
- Gorge Road
- Bluewater Trail Caneland Park
- Bluewater Trail Environment Park
- Lining of City Heart drains

### *Paget Depot Project:*

- Scope decided for sustainability initiatives
- Access Road under Construction
- Contractor takes possession 1/04/10

## MAINTENANCE

### Maintenance Grading in the following areas:

Medium Formation Grading	Leichhardt Road, Bradshaws Road, Eungella Dam Road.
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### Special Works:

Cyclone clean up – Town area, Mt Vince, Walkerston, Alexandria, Eton, Drapers Siding, Bakers Creek, Dunrock, Chelona, Harris Estate, Munbura, Palmyra.

Concrete crew – Borgs Road – concrete margins, August Street – footpath repairs, Road repairs – Eton area, Alexandra Street – hot mix repair.

The Central North crew was kept very busy during the month due to wet weather and cyclone clean up.

The grader crew had to fill around culverts and floodway's on numerous occasions so vehicles could get to their destinations. The floodway boom gates were replaced and repaired seven times as they appeared to be a target for vandals. The last two weeks of the month the crew was used to clean up the northern beaches area.

### Drainage Maintenance:

Palm Tree Road, Hazelwood Road, Crediton Loop Road,

### Pothole Patching:

Patching undertaken by the Southern area crew – Oakenden area, Old Pleystowe Road, Pugsley Street, Stanfords Road, Rocky Water Holes Road, Lembergs Road, Peterson Road, Hannans Road, Campbells Ridge Road, Shamrock Road, Walkerston-Homebush Road, Bells Road, Pleystowe School Road and Barrie Lane.

Patching undertaken by the Central Flocon crew – Connors Road, Landsdowne Road, Horse & Jockey Road, Schmidtkes Road, Mt Charlton Road, Stockroute Road, Holmes Road, Alexandra Street, Kennedy Street, Bridge Road, Archibald Street, Hume Street and Keith Hamilton Street.

The Central Jetpatcher crew undertook patching – Shakespeare Street, Holland Street, Binnington Esplanade, Kippen Street, Enterprise Street, Ferguson Street, Victoria Street, Napier Street, Podosky Street, Brandscombe Road, Streeter Avenue, Bernborough Avenue, Archibald Street, Juliet Street, Porter Street, Keelan Street, Field Street, Slingardies Road, Munbura Road, Boddington Street, Stockroute Road, Pleystowe Station Road, Perry Road, Kellys Road, Bridge Road, Creek Street, Marlborough Street, Hansens Road, George Street, Goldsmith Street, Brisbane Street, Horse & Jockey Road, Landsdowne Road.

Mirani Patching crew – Mirani streets, Gargett area, Devereaux Creek area, Owens Creek Loop Road, Kinchant Dam Road.

The Central North Patching Crew undertook patching in the following areas – Andergrove, North Mackay, Glenella, Farleigh, Beaconsfield, Bucasia, Shoal Point, Mount Pleasant, Eaglemount Heights, Rural View, Slade Point, Conningsby, Seaforth, Cape Hillsborough, Holiday Bay, Balnagowan, and Mackay Harbour.

### Slashing:

Oakenden, Marwood, Munbura, Chelona, Sandiford, Bakers Creek, McEwans Beach, Racecourse, Te Kowai, Foulden, Palmyra, Walkerston.

**Bridge Maintenance:**

<b>Bridge Name</b>	<b>Road Name / Location</b>	<b>Description of works</b>	<b>Cost</b>
Chelmans	Chelmans, Dalrymple	Replace abutment B headstocks.	\$10,000
Cathay Creek No. 1	Cathay Creek, Crediton	Replace headstock and bridge deck boards.	\$15,000
Cathay Creek No. 2	Cathay Creek, Crediton	Replace headstocks / girders and deck.	\$30,000
Bell Creek Bridge	Munbura Road, Munbura	Level 2 bridge inspection (hire of underbridge inspection unit)	\$10,000

**Main Roads RMPC:**

Other Bituminous Works / Pothole Patching / Pavement Repairs	Bruce Highway South, Sarina Coast Road, Sarina-Marlborough Road, Hay Point Road, Mt-Ossa Seaforth Road, Mackay-Habana Road, Marian-Hampden Road, Peak Downs Highway.
Heavy Formation grading / gravel resheating / other formation works	Bruce Highway, Koumala-Bolingbroke Road, Sarina-Coast Road, Hay Point Road, Sarina-Marlborough Road, Eungella Dam Road, Yakapari-Habana Road.
Heavy Shoulder Grading / Gravel Resheeting / Other Shoulder Works	North Eton Road.
Tractor Slashing Rural / Urban / Boom Mowing / Clearing Works / Herbicide Spraying / Declared Plant Spraying	Maraju-Yakapari Road, Mackay-Bypass Road, Mirani-Mt Ossa Road, Marian-Eton Road, Marian-Hampden Road, Mirani-Eton Road, Eungella Dam Road, Gargett-Mia Mia Road, Mackay-Slade Point Road, Bruce Highway North, Bruce Highway South, Mackay-Eungella Road, Sarina-Homebush Road, Peak Downs Highway, Hay Point Road, Mackay-Eungella Road, Mt Ossa-Seaforth Road, Yakapari-Seaforth Road, Yakapari-Habana Road, Mackay-Habana Road.
Rest Area Servicing	Bruce Highway North.
Road Sweeping/Roadside Litter Collection	Bruce Highway South, Bruce Highway North, Mackay-Slade Point Road.
Emergency Call Outs	Mackay-Bucasia Road.
Signs / Guide Post Works	Gargett-Mia Mia Road, Mackay-Slade Point Road, Mackay-Bucasia Road, Peak Downs Highway, Yakapari-Seaforth Road, Mt Ossa-Seaforth Road, Bruce Highway North, Sarina-Homebush Road, Mackay-Eungella Road.

**Emergent Works – Cyclone Olga – 2010**

Task Number 1709 total actual costs to date = \$822980.45

**Emergent Works – Cyclone Ului – 2010**

Task Number 1711 total actual costs to date = \$1665178.09

## TECHNICAL SERVICES

- Development and design of projects for saturation damage projects throughout the Council area
- Development and design of projects within Capital Works Programme
- Development and ongoing modification of draft 20yr Capital Works Programme making provision for all current projects and proposed development projects for long term Financial Plan purposes
- Discussions with GHD & utility providers regarding proposed road construction Connors Road (Archibald to Farrelly's). Land acquisitions in progress and Ergon Telstra cost estimates received and orders placed. Construction sequencing plan and discussions proposed.
- Detail design ongoing for intersection upgrading on Malcomson Street at Charles Hodge and Greenfields intersections.
- Tender assessment Canelands Park and Environmental Walkway projects including receipt of Environmental permits.
- Detail design of culvert crossing Casey Avenue, concept development and detail design for stadium access, car park and Bluewater Trail extension ongoing. DA lodged and approved
- Concept and detail design for future Milton/Bridge and Bridge/Paradise intersections commenced as part of Paget intersection and traffic study
- Detail design of Caledonian Drive Stormwater Quality Improvement Device complete. Waiting final plan delivery
- Preparation of detail design and issue of Technical Specifications for contract projects including Crediton Loop Road, Eungella /Bus Set down, Grasstree Beach Road, Kuttabul/Mt Jukes and Rockwaterholes. Wallingford Road rehabilitation
- Ongoing discussions with DMR, Developer and Council staff with regard to detail design and division of costs for Bruce Hwy/Boundary Rd intersection and section of Boundary Road from Hwy to Rainlover Street
- Submission of Whitsunday RRG Works and LRRS Safety program for adoption by Regional Roads Group
- Attendance at Meetings with DTMR on Koumala line marking, Affordable housing Working Group, Paget Depot Steering Committee, Mackay Road Infrastructure Group, Land and Road Use Committee, Strategic Planning Internal Stakeholders meeting, Residential Density Workshop, QT regarding Constant Creek boat ramp, Residents Barclays/Ridolfi's Intersection, UDIA meeting on Utilities corridor conflicts, PIP Steering Committee, Seaforth Residents.
- Provision of Briefings to Council on Engineering Highlights and the Indicative Capital Works Program

## PARKS AND ENVIRONMENT

The Parks & Environment report for the month of March contains information on activities undertaken throughout the month by the staff within the program.

**The Parks & Environment Program staff appreciates the assistance given by staff from ES Maintenance, ES Construction and Mackay Water in the immediate weeks following Cyclone Ului impacting upon our region. Without their assistance the opening of roads, clearing of debris and ensuring the public had safe transport routes would not have been possible in such a short period of time. The coordination of the clean up continues through April for Parks staff and additional assistance of Cairns Regional Council and Correctional Services personnel.**

- **Administration** – Recording of paper usage for the program has indicated a marked increase this month of photocopies due to the production of street map books for ground crews associated with the clean up of Cyclone Ului, including the Cairns Parks/Works crews. There were 16 enquiries for park access keys and 11 park bookings for the month.
- **Customer Requests** – Staff undertook the coordination of Customer Requests this month due to the majority of supervisory staff being engaged with Cyclone Ului clean up. There were 517 requests received this month, with 357 attended during the month and a total of 251 outstanding requests at the end of the month. This number includes requests outstanding from previous month and those not attended during the month of March.

*Queens Park after Cyclone Ului, photo taken on 23 March 2010 showing tree loss and debris throughout Park.*



- **Technical Officers** – 2 On Maintenance inspections of new developments were conducted, with 4 developments being accepted off maintenance during the month. The Technical Officer Assets coordinated the delivery of the Green Waste Pick Up for the community and oversaw the daily commencement of work by 10 crews through the Mackay region this work commenced in early April. The Technical Officer Subdivisions undertook scoping of tree damage and administrative support to the program. Both of these officers also assisted with providing a lunch barbeque to the staff who were working in the field during the weeks immediately after the cyclone. Many of the staff was without power in their own homes for the first week after the cyclone, and a hot meal was most appreciated.
- **Horticulture Activities** – 127941m<sup>2</sup> of garden beds were attended prior to March 21, after then they were all involved with Cyclone clean up and gardens were not attended. This will be

recommenced in April.

- **Grass Maintenance Activities** – 1,344,223m<sup>2</sup> of Parks mowing, 163,548m<sup>2</sup> of drains mowed and 778,197m<sup>2</sup> of easements mowed. These figures do not include mowing operations from Sarina precinct as they were unavailable at time of report. Mowing operations were interrupted due to Cyclone Ului clean up as all staff were involved with tree clearing and drain clearing operations for last two weeks of month. Mowing activities recommenced in first week of April.
- **Arboriculture Activities** – The arboriculture report is not completed as supervisor and staff are actively engaged in tree clean up. Thousands of trees have been inspected, tons of green waste removed from roads and some parks up to the end of the month. All available trained chainsaw operators are working with the tree crew to clear up hanging branches, fallen trees, and reposition trees that can be saved that have blown over during the cyclone and afterwards from windy conditions combined with very wet ground conditions.
- **Natural Environment Activities** – Coordination of 9 working days by CVA team at Sandfly creek reserve, and 1 community working bee were undertaken early in March. Meetings with Reef Catchments were held to further signage project, preliminary planning of beach revegetation projects and investigative reports. 150 plants were planted at Sandfly Creek and 150 plants installed by community members. On ground works at Louisa Creek walkways was undertaken. Meetings with Ports Corp staff to coordinate maintenance activities at Louisa Creek were held.
- **Marine Beach Activities** – All swimming enclosure inspected prior to 20 March. Following Cyclone, Holiday Bay Swimming Enclosure has been removed due to extensive damage. All other enclosures repaired in readiness for Easter holiday period. Minor repairs to Seaforth unable to be completed due to tidal heights preventing access to seaward sections. Temporary repairs conducted.

*Holiday Bay Swimming Enclosure after Cyclone Ului, 22 March 2010.*



- **Parks Building Services Activities** – Capital works staff were engaged on the refurbishment of Grasree Beach Toilet facilities, preliminary ground works for Grasree Beach shelter shed

replacement activity, and the removal of all shade sails prior to Cyclone Ului. Shade sail removal was conducted in partnership with specialist shade sail company staff to enable swift removal in the 48 hours prior to anticipated cyclonic impact. Replacement will be conducted in April. The Electricians were engaged on numerous Traffic Signal repairs, and ongoing issues related to water ion signal control panels, wind effect on signal orientation and bulb replacements. Barbeque repairs at Lamberts Beach were completed. 8 requests for work in Property services facilities were completed. Test and Tag of Bedford Road Construction crew and Arboriculture team equipment completed.

- **Capital Projects** – The following capital projects were in progress during March:

**Completed** Midge Point Foreshore Shelter, picnic table and barbeque installation  
Queens Park Rotunda refurbishment to heritage specifications and colours.

**In Progress** Grasreech beach Amenities Refurbishment  
Grasreech Beach Shelter replacement

### **MACKAY REGIONAL BOTANIC GARDENS**

#### ***Throughout March:***

#### **Horticultural and Site Works**

Works focussing on weed control and mowing. Due to wet weather, planting bees with the gardens Friends were postponed from March 10 to 20.

Cyclone Ului on March 20 caused substantial damage to the Living Collection. One third of mature trees on site and half of the Living Collection received some to substantial damage. The Gardens remained closed for two weeks and with welcome assistance from Parks and Environment staff, the Arboricultural crew, Natural Environment, Works Crew - the Botanic Gardens staff managed to have the site open by the Easter holidays. Clean-up continued throughout the remainder of March and it is predicted for the majority of April. And survey of the collection, what was damaged and why will be undertaken by the Curator in April. Accurate record keeping is required to continue with Botanic Garden status, and to provide valuable information on species and how they respond to natural events like cyclones. Researchers from overseas and Australian institutions utilise this information for event management studies, plant selection for suitability in various climates and for structural integrity of species.



## **Masterplan Review and Planning**

The Masterplan Review 2010 final draft was presented to council on March 10 by Landscape Architect Lawrie Smith, Dale Arvidsson, Curator and Helen Paulsen, Manager Parks & Environment. Acknowledged was the hundreds of hours by staff and the volunteer working group to complete the review to this stage. Councillors were invited to review the draft Masterplan throughout March and provide feedback, then the Masterplan would go to public comment on the Botanic Gardens website, the Botanic Gardens Administration and the Lagoons Café, and Council Customer Service Centres at Mackay, Sarina and Mirani in April.

## **Consultation**

There has been consultation with Engineering Services Program Managers.

## **Resource Implications**

Nil.

## **Conclusion**

March was a period of intense activity both in terms of maintenance works due to extensive rainfall during the period and the preparedness, response and recovery associated with Cyclone Ului. The after effects of the damage caused by the cyclone will take a number of months to address. The support and resilience of the community in most areas is to be commended as is the dedication of Council staff in their assistance and support of the community.

## **Officer's Recommendation**

THAT this report be received.