

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

**Author: DIRECTOR ENGINEERING SERVICES**

## **Purpose**

To review Engineering Services Department highlights and significant issues for the month ending October 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 Cr. Casey, DERM and Mackay Airport to discuss Shellgrit Creek
- IPWEAQ State Conference - Brisbane
- Meeting with Pyramid Security and Mackay Police to discuss Bluewater Quay Security
- Reef Guardian Council Steering Committee in Townsville
- Co-ordinated Service Level Review meetings with Program Managers
- Conducted Site Inspections with Cr. Casey
- Meeting with EMQ regarding the introduction of Community Resilience Project
- Meeting with residents and Cr. May at Blacks Beach regarding Beach Plans

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

- Corporate Projects Committee, 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
- City Focus Advisory Committee, Open Space Sports & Recreation Steering Committee and Rural Affairs Advisory Committee

## CIVIL PROJECTS (CONSTRUCTION)

*Works have been completed on the following projects:*

### DAY LABOUR

- McKenney Street - Scott Street to Opposite Lamb Street
- Mengel Street - Bridge Road to Village Street
- Gregory Street between Gordon Street and Victoria Street
- Mansfield Drive and Pitman Street
- Branscombe Road footpath
- Grasstree Road
- Carlyle Street resurfacing between River and Victoria Street
- Elizabeth Street footpath Sarina
- Arthur Street footpath Sarina



**Gordon Tennyson / Street roundabout**

### CONTRACTS

- Stormwater pipes re-lining - Wood Street and Brisbane Street
- West Plane Creek Road
- Flood Damage Package 1 - Sarina Mirani 2008-2009 Flood Damage Program
- Rifle Range Road – Plane Creek Crossing Reconstruction
- Grasstree Beach Road

## CIVIL PROJECTS (CONSTRUCTION)



### West Plane Creek Road Reconstruction

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

#### **DAY LABOUR**

- Blue Water Trail Lagoon to Bridge Road section
- Casey Avenue Leisure Court extension
- Gordon Street / Tennyson Street - intersection roundabout
- Fernleigh Avenue / Maple Drive intersection



### Kinchant Dam Road

## CIVIL PROJECTS (CONSTRUCTION)

### CONTRACTS

- Carlyle Street resurfacing between River and Victoria Street
- Flood Package 10 – Mackay South, 2 2008



**Flood Package 10 – Mackay South, 2 2008**

**The following projects are in progress:**

### DAY LABOUR

- Crightons Road depot access
- Bridge Road drainage widening - Leisure Court to Irving Street
- Bridge Road footpath between - Leisure Court and Irving Street
- Kinchant Dam reconstruction
- Connors Road - between Archibald Street and Boundary Road
- Bontanic Garden carpark
- Stockbridge Street reconstruction
- Middle Creek Road
- Norris Road at Beaconsfield Road

### CONTRACTS

- Farrellys Road, Connors Road to Michelmore Streets, Paget
- Bluewater Trail Caneland Park
- Flood Package 8 – Mackay North 2008
- Flood Package 9 – Mackay North 2, 2008
- Brisbane Street Reconstruction
- Flood Package 11 – Midge Point 2008
- Crediton Loop Road
- Roger Road Culverts
- Optic Fibre Communications
- Flood Package 12, 2008

**CIVIL PROJECTS (CONSTRUCTION)**



**Middle Creek Dam Road**



**Trevaskis Road, Farleigh - Flood Package 11 Midge Point 2008**

## CIVIL PROJECTS (CONSTRUCTION)

*The following projects have been awarded:*

### CONTRACTS

- 2009 Flood Saturation Damage Restoration Package 901

*The following projects have been put to tender:*

### CONTRACTS

- 2009 Flood Saturation Damage Restoration Package 902
- 2009 Flood Saturation Damage Restoration Package 903
- 2009 Flood Saturation Damage Restoration Package 904
- Perry Road Reconstruction
- Mango Avenue Reconstruction

## CIVIL OPERATIONS (MAINTENANCE)

### Maintenance Grading in the following areas:

Submergence Repairs - 2008 Rain Event	NIL
Submergence Repairs – 2010 Event	NIL
Formation Grading	Smart Road, Lally Road, Johnson Lane, Hatfield Road, Upper Alligator Creek Road, Nicholson Road, Frank Miles Road, Mt Convenient Road, Plath Road, McMahon Road, Carlton Road, Collmans Road, Keilbachs Road, Bergmans Road, Jankes Road, Campbell Ridge Road, Barrie Lane, Running Creek Road, Clausens Road, Mezzens Road, Walz Road, Griffiths Road, Howells Road, Old Seaforth Road, Nobblers Creek Road, Habana Wharf Road.
Temporary Gravel Road Repairs	Ventons Road, Jenners Road, Bourks Road, T Jenners Road, Sugarloaf Road, McFauls Road, Fred George Road, Mt Martin Loop Road, Luscombe-Heads Road.
Shoulder Grading	Mt Martin Loop Road, Stockroute Road, Campbell Ridge Road.

### Special Works:

**Footpath repairs** – Victoria Street (Mirani), Emperor Drive, Podosky Street, Kippen Street, Milton Street, Tait Street, Bridge Road, Victoria Street, Wood Street.

**Vegetation Control** – Marian, Victoria Plains, Eton & Oakenden areas.

**Sign & Guidepost repairs** – Owens Creek Loop Road, Victoria Plains, Eton & Sunnyside areas,

**Culvert & Pipe repairs** – Mt Martin Loop Road, Devereux Creek Road, Marwood Road, Wollingford Road, Old Bowen Coach Road, Canberra Street, Coral Court, Raceview Court, Nicklin Drive, Malcomson Street, Macrossan Street, Archibald Street, Prospect Street, Tay Street, Elamang Street, Munbura Road, Hucker Street, Balnagowan Bridge.

**Kerb & Channel repairs** – Harveys Road, Branscombe Road, Edward Street.

**Pit repairs** – Archibald Street, Prospect Street, Tay Street, Elamang Street, Munbura Road.

**Water Board Patching** - River Street, Investigator Street, Jarrah Street, Coral Drive, Howard Street, Leisure Court, Bridge Road, Lambrook Court, Jubilee Street, Hinton Street.

**Pothole Patching:** Marian area, Marian-Eton Road, Devereux Creek Road, Mackay-Eungella Road, Owens Creek Loop Road, Eungella area, Kinchant Dam Road, Sarina area, Riley Road, East Funnel Creek Road, Armstrong Beach Road, Eversleigh Road, Garretts Road, Grasstree Beach Road, Brooks Road, Smarts Road, West Plane Creek Road, Venton Road, Dawlish Road, Bally Keel Road, Hay Point area, Wollingford Road, Stockroute Road, Palmyra area, Pleystowe Connection Road, Glenpark Street, Bedford Road, Fernleigh Avenue, Banksia Avenue, Calen-Mt Charlton Road, Surprise Creek Road, Treveys Road, Downie Avenue, Barcoo Road, Gardiners Road, Bobongies Road, Canberra Street, Hamilton Street, Harvey Street, Warrener Street, Maguire Street, Apollo Drive, Coral Court, Habana-Farleigh Road, Flors Avenue, Nadarmi Drive, Pine Street, Blacks Beach Road, Cabbage Tree Road, Stirling Court, Hillside Terrace, Pioneer Street, Bucas Drive, Green Street, East Street, Pioneer Street, Keswick Avenue, Whitten Court, Daniel Street, Cumberland Avenue, Keswick Avenue, South Pacific Avenue, Bedford Road Depot, Baxter Drive, Parkview Court, Amhurst Street, Farmer Street, Fleurs Way, Nadina Street, Coles Road, Raymond Croker Drive, High Street, South Pacific Avenue, Pacific Drive, Farmer Street, Nicklin Drive, Mango Avenue, Malcomson Street, Glendaragh Road, Riversleigh Drive, LeGardes Road, Barrow Hill Road, Holts Road, Trevaskis Road, Davey Street, Hill End Road,

Holts Road, Cutler Drive, Nicklin Drive, Keeleys Road, Ron Searle Drive, Avalon Drive, McIntyre Street, Toons Road, Barron Pocket Road, Bogga Road, Pindi Blackrock Road, Old Bowen Road, Pratts Road, Church Street, Ferris Road, McDermotts Road, Midge Point Road, Cassia Street, Paget area, West Mackay area.

**Drainage Maintenance:** Bergmans Road, Keilbachs Road, Running Creek Road, Marwood Road, Thomas Road, Mezzens Road, Barrie Lane, Archibald Street.

**Mowing & Slashing:** Marian, Ooralea, Te Kowai, Walkerston, Pleystowe, Marian, Victoria Plains and Eton areas.

**Main Roads RMPC:**

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

**Quarry Operations:**

Gravel from the following quarries was extracted during October:

Bezzina, Buggybend, Comelli, Eton, Hazelwood, Hoffman, Howell, Jensen, Johnson, Mezzen, Omand, Tecon Gap Pits.

**Flood Damages:**

**2009 NDRRA:**

- Saturation = \$32,241,425.81
- Upgrade = \$1,574,694.27
- Package 901 – Contract awarded to BMD - \$1,503,956

Archibald Street
Black Street
Crowley Drive
Cumberland Avenue
Elvin Street
George Fordyce Drive
Glenella Road
Graves Street
Keswick Street
Lansdowne Road 2008 & 2009 (see below split)
Margaret Street Walkerston
Marlborough Street
Pacific Esplanade
Pheasant Street
Silingardies Road
Ungerer Street

- Package 902 – Contract awarded to Allciv Pty Ltd = \$1,321,253

Deanna (Alberta) Street
Alexandra Street
Alice Street
Anzac Parade
Brand Road
Chris Johnson Street
Dalrymple Road
Head-Menkins Road
Kennys Road
Kinchant Dam Road
Leichardt Road
Lucas Paddock Road
Markeys Road
Mary Street
Maud Street
Mirani Boldon Road
Nicholsons Crossing
Old Hampden Road
Owens Creek Loop Road
Peachs Road
Pinevale Road
Pinnacle-Septimus Road
Pup Creek Road
Staytes Road
Welshs Road

➤ Package 903 – Contract awarded to Allciv Pty Ltd

Burgess Street
Edinburgh Place
Grendon Street
Hamlet Street
Harvey Street
Keller Street
Len Shield Street
Les Cameron Avenue
McHugh Street
Salmon Avenue
Stockroute Road
Walkerston-Homebush Road

**2010 NDRRA:**

Claim capitulation due for completion and submission mid November.

## TECHNICAL SERVICES

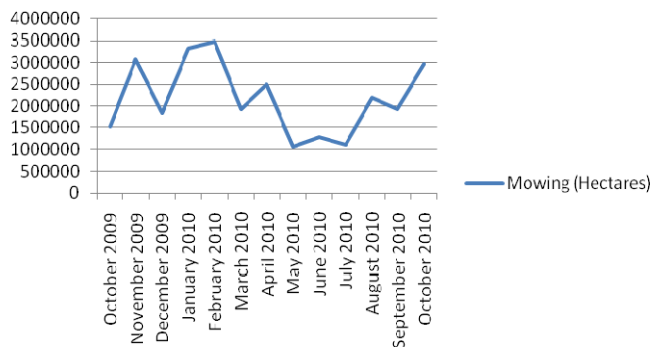
- Development and design of projects for saturation damage projects throughout the Council area.
- Development and design of projects within Capital Works Programme.
- Development and ongoing modification of draft 20yr Capital Works Programme making provision for all current projects and proposed development 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. Telstra and Water/Sewer works underway.
- Detail design ongoing for intersection upgrading on Malcomson Street at Charles Hodge and Greenfields intersections.
- Tender Specification and issue for SOI Bitumen and Asphalt surfacing and Minor Concrete Works and Draft Standard Technical Specification.
- 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. Construction plans issued for drain widening and footpath construction.
- Concept and detail design for future Milton/Bridge, Bridge/Paradise, Archibald/Milton and Paradise/Webberley intersections commenced as part of Paget intersection and traffic study.
- General design development of detail plans for Archibald/Paradise roundabout, Holts Road Culverts, Beaconsfield LATM Stage 3 & Victor Creek Car Park Stage 3.
- 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.
- Design of HAFF project extension of Rosewood Drive.
- Attendance at Meetings Paget Steering Committee, Paget Depot Management Group, Corporate Projects, Strategic Planning Internal stakeholders, Program Managers, DTMR City Gates Boundary Road Upgrade, MRC Freight Summit, Contracts Working Group & WRRG Technical Committee.
- Provision to Council of briefing on Departmental Issues.
- Provision of Report to Council on recision of Council policies and adoption of internal operating procedures for stock control structures, works on road reserves, building near stormwater assets.
- Site Meeting with Landowner on boundary Road – Vella's Shop.

## PARKS AND ENVIRONMENT

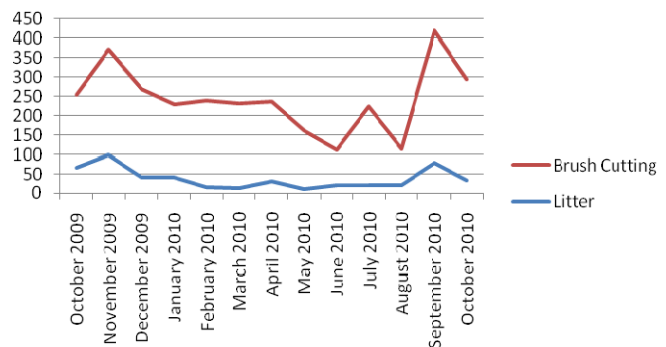
The Parks & Environment report for the month of October contains information on activities undertaken throughout the month by the staff within the program.

- **Administration** – The Parks & Environment trainee was successful in obtaining full time employment with a local engineering firm. Staff was involved with park bookings in the lead up to Christmas, attending training in Guardian Emergency Management and Excel spreadsheeting. There were 7 positions vacant in October, with interviews and appointments filling 4 of these positions due in November/ December.
- **Customer Requests** – There were 239 requests received and 191 attended during the month.
- **Technical Officers** – There were 7 Off Maintenance inspections undertaken and 2 On Maintenance inspections conducted during October. Staff attended Authorised Officer Training. The Asset data capture project has neared completion with on ground inspection to determine quality of information scheduled in November. The Level of Service for mowing data capture is nearing completion and will be presented to Council in a briefing session.
- **Horticulture Activities** – A total of 435,539m<sup>2</sup> of gardens were serviced.
- **Grass Maintenance Activities** – As this is traditionally the drier season, annual leave by staff has meant this operation was down by 4 staff for the month. There are 2 vacancies in the operation. A total of 2,574,445m<sup>2</sup> of parks; 146,427m<sup>2</sup> of drains; 811,073m<sup>2</sup> of easements; 386,380m<sup>2</sup> of road medians and 122,741m<sup>2</sup> of community hall grounds were mowed during the month. A total of 477 hours of whipper snipping was undertaken throughout the region for the month.

### Mowing Activity



### Mowing Activity



- **Natural Environment Activities** – The Natural Environment teams worked with 3 school groups and had 56 hours of volunteer assistance during October. The staff worked on Blacks Beach Spit, Blue River Trail, Janes Creek, Sandfly Creek and the Natural Environment Centre grounds undertaking planting and weeding activities. A total of 11,425m<sup>2</sup> of weed control was conducted.
- **Arboriculture Activities** – Arborists continue to work on cleaning up hanging branches and failing trees that were damaged during Cyclone Ului. They undertook 59 customer requests during the month. The Tree Asset Audit Officer position is vacant and will be advertised in November.
- **Marine Beach Activities** – Inspection of three swimming enclosures was conducted. Repairs to slatted access ladders were conducted at Slade Point and Harbour Beach in preparation for surf event and wedding.
- **Parks Building Services Activities** – Construction activities were hampered by wet weather during the month. Projects being worked on included Muller Park Shelter replacement, Muller Park Playground upgrade, Campwin Beach Toilet Block refurbishment and the RLCIP Shade Project tender commenced on the ground preparation. There were 5 toilet block badly vandalised during the month, with three requiring the flake floor to be repaired as a result of fire damage.
- **Electrical Operations** – The repairs to traffic lights is a major work activity.
- **Cemetery Operations** – There were 15 burials at Mt Bassett and 8 at Walkerston. Staff were involved

with 305 hours of mowing and 313 hours of whipper snipping in cemeteries during the month.

- **Capital Projects** – The Capital Works team were engaged on construction of Muller Park Shelter replacement and Campwin Beach Toilet Block Refurbishment.
- **The following projects are completed** –

Jubilee Park Monument Restoration	Botanic Gardens - Gymnosperm Deck drainage
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- **Projects in Construction** –

Tamarind Car Park construction	Campwin Beach Toilet Refurbishment
Northview Park Toilet	Hillside Drive Park Picnic setting upgrade
Mt Bassett Toilet	

## MACKAY REGIONAL BOTANIC GARDENS

### *Throughout October:*

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

Staff works have been focussing on repairs to 200+m of “French” style rock surface drains and the site wide irrigation system. Works to rebuild drains took place in the Australian Regional Flora Terraces. Horticultural works were limited by 16 days recording rain and focussed on weed and pests/disease control (due to the unseasonable wet and warm winter/spring), site wide mulching and fertilising. Works were also impacted extensively by staff shortages, with two staff on sick leave. The focus on important drain rebuilding, rain and staff shortages lead to a less than satisfactory visual appearance of the site, with lawn and garden beds not as maintained as would be this time of year. Extensive mulching of over 1 acre of garden beds to the entire Australian Regional Flora Terraces Garden was contracted to Bark Blowers Mackay.

#### **Visitor Services Program**

A Friends Planting bee on October 9 saw another 200 plants added to the Living Collection. Planting occurred in the Australian Regional Flora Terraces – Monsoon and Torres Strait Wetlands, Monsoon Forest and Monsoon Waterfall beds whilst rare and threatened species were added to the South-east Queensland Microphyll Vine Forest bed. This was the final planting bee of 2010 and allowing for delays caused by the Cyclone Ului clean-up, a further 650 plants were added/replanted during the year by volunteers.



Insect identification for schools

October was another busy month for visitors to the MRBG. Guided school education sessions were conducted with 52 Year 2 children from Walkerston State School, West Mackay Year 6 and 7 classes (over 100 children), 23 Prep and Year 1 children from Seaforth and 2 x Year 6 classes from Bowen Schools organised self guided visits. Presenters from Queensland Museum were in Mackay and Visitor Services Officer Maya Harrison participated in their

Workshop – the botanic gardens is classed as a ‘living museum’. Information gained from this very practical training will be included in future school education sessions in regards to biodiversity and species identification.

Community Groups also participated in activities at the MRBG including 35 members of the Slade Point Seniors Group learning more about the Gardens during their visit which included a Guided walk and talk. The ‘Beta Sigma Phi Group’ utilised the MRBG by meeting with local ornithologist Tess Brickhill and Maya Harrison who presented a Bird Watching talk and how to attract bird to your home garden with local native plants.

Visitors and local people joined in the Free Guided Walks every Friday at 9.30am to find out more about the features, plants, creatures and history found in the Botanic Gardens, but the end of October saw these walks cease for the year because of the increase in heat (and rain).

A group which regularly meets at the Gardens is the Botanic Art Interest group and during October, their efforts in representing the flora of the Gardens was displayed in their 4<sup>th</sup> annual exhibition showcased in the Lagoons Gallery.



Gardens Friends guide walk

#### **During October – the following other functions occurred:**

8 weddings & 4 receptions/functions in the Lagoons Gallery

The Meeting room was used by 7 community groups & 6 corporate group bookings

Bike Week – Family Fun Day on the 10<sup>th</sup>

Scout Push or Walk for Children’s Week event on the 29<sup>th</sup>

### **Consultation**

There has been consultation with Engineering Services Program Managers.

### **Resource Implications**

Nil.

### **Conclusion**

It has been evident that the wet conditions are starting to have an adverse impact upon Council's maintenance operations, in particular the maintenance of the road network and the condition of the parks and road reservations. Similarly, both Council construction crews and construction contracts have been significantly impacted. The Paget Depot Project is currently still on schedule for completion in June/ July 2011 however this timing will be influenced by the extent of future wet weather.

### **Officer's Recommendation**

THAT this report be received.