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Exhibit Number:

QUEENSLAND FLOODS COMMISSION OF INQUIRY

Oaths Act 1867

Statutory Declaration

QUEENSLAND

TO WIT

I, **Luke Anthony Lankowski**, of care of Council Chambers, corner of Egerton Street and Borilla Street, Emerald in the State of Queensland, Manager Development Services, Central Highlands Regional Council, do solemnly and sincerely declare that:-

The following is a true statement containing my response to the queries raised by the Commission in its letter dated 10 August 2011:

1. **A summary of the assessment criteria contained in council's planning scheme(s) and how such criteria are used to assess applications for development in the natural hazard management area.**
 - 1.1 The Central Highlands Regional Council administers four (4) planning schemes, namely:
 - a) *Bauhinia Shire Planning Scheme (2007)*;
 - b) *Duarina Shire Planning Scheme (2007)*;
 - c) *Emerald Shire Planning Scheme (Amendment No. 1 – 2009)*; and
 - d) *Peak Downs Shire Planning Scheme (2005)*.
 - 1.2 These planning schemes regulate development within their respective areas and include codes of development and overlay codes that assist in the assessment process by establishing specific outcomes and probable and acceptable solutions to achieve these outcomes.
 - 1.3 Each of the planning schemes identified above include an overlay code that partially reflects the content of *State Planning Policy 1/03 – Mitigating the Adverse Impacts of Flood, Bushfire and Landslide*. However, none of these planning schemes specifically address flood impacts within their respective Natural Disaster Overlay Codes and as such, no natural hazard management area (flood) has been specifically identified within these planning schemes to reflect the extent of flood affected land at the present time.
 - 1.4 A summary of the provisions contained within each planning scheme is included below:
 - 1.5 *Bauhinia Shire Planning Scheme 2007*
The Natural Disaster Overlay Code of the *Bauhinia Shire Planning Scheme (2007)* addresses Bushfire and Landslide components only.

- 1.6 The *Bauhinia Shire Planning Scheme (2007)* does however specifically refer to flood impacts and floodplain issues within the Desired Environmental Outcomes sought for development within the local government area for the former Bauhinia Shire, permitting consideration of this issue during land use assessments.
- 1.7 However, no specific provisions or mapping are contained within the planning scheme with respect to flood impacts within the former Bauhinia Shire, including the townships of Springsure and Rolleston.
- 1.8 Duarina Shire Planning Scheme 2007
The Natural Disaster Overlay Code of the *Duarina Shire Planning Scheme (2007)* addresses Bushfire and Landslide components only and the planning scheme does not refer to flood impacts within the Desired Environmental Outcomes contained within this document. There are no other provisions in the planning scheme dealing with flood impacts.
- 1.9 Emerald Shire Planning Scheme (Amendment No. 1 – 2009)
The Natural Disaster Overlay Code of the *Emerald Shire Planning Scheme (Amendment No. 1 – 2009)* addresses Bushfire and Landslide components only. As such, the gazettal of this planning scheme was conditional on the continued operation and effect of this State Planning Policy as it relates to Flood.
- 1.10 The *Emerald Shire Planning Scheme (Amendment No. 1 – 2009)* does refer to floodplain impacts within the Desired Environmental Outcomes sought for development within the local government area for the former Emerald Shire, and seeks to ensure water quality is maintained and enhanced.
- 1.11 However, no specific provisions or mapping are contained within the planning scheme with respect to flood impacts within the former Emerald Shire, except for lands at the Gemfields in proximity to Policeman's Creek.
- 1.12 Development within the mapped Policeman's Creek area (Map 5a – *Emerald Shire Planning Scheme (Amendment No. 1 – 2009)* (**Attachment 1**)) is intended not to cause further erosion or to unduly impede the flow of water in the creek. The planning scheme also seeks to ensure that development in this area is safely located, constructed and maintained in respect to potential floods.
- 1.13 For other townships within the former Emerald Shire, no flood mapping is available within the planning scheme at the current time. However, Council has prepared mapping in relation to known flood events including 2008 and most recently the 2010/2011 flood event of the Nogoia River (**Attachment 2**). These maps are utilised on an advisory basis to inform the decisions of Council and inform developers and the public as to the known flood risk for their area.
- 1.14 Peak Downs Shire Planning Scheme (2005)
The Natural Disaster Overlay Code of the *Peak Downs Shire Planning Scheme (2005)* addresses Landslide only, but does refer to floodplain impacts within the Desired Environmental Outcomes sought for development

within the local government area for the former Peak Downs Shire, to ensure water quality is maintained and enhanced.

- 1.15 However, no specific provisions or mapping are contained within the planning scheme with respect to flood impacts within the former Peak Downs Shire.
2. **A description of how the natural hazard management area, as it relates to flood affected land, is reflected in the planning scheme.**

2.1 As noted above, each of the planning schemes identified above include an overlay code that partially reflects the content of *State Planning Policy 1/03 – Mitigating the Adverse Impacts of Flood, Bushfire and Landslide*. However, none of these planning schemes specifically address flood impacts within their respective Natural Disaster Overlay Codes.

2.2 As such, no natural hazard management area (flood) has been specifically identified within these planning schemes to reflect the extent of flood affected land at the present time.

2.3 To address this shortfall, Council is currently collating data to inform a proposed Temporary Local Planning Instrument to address flood impacts within the Central Highlands. The resolution to prepare this document was approved by Council on Monday, 6 June 2011. The resolution moved by Council is as follows:

2.4 **“Temporary Local Planning Instrument**

Resolution:

Cr Brimblecombe moved and Cr Haylock seconded ‘That Council resolve to prepare a temporary local planning instrument to establish an interim residential flood level for known flood affected areas of Emerald in accordance with the Sustainable Planning Act 2009 and Statutory Guideline 02/09.

Carried”

2.5 This Temporary Local Planning Instrument is still being prepared, and will include data obtained from the 2008 and 2010/2011 flood events of the Nogoa River, once available. Once similar data is available for other communities within the Central Highlands, e.g. Rolleston, a similar Temporary Local Planning Instrument will be proposed for this area.

3. **Details of Council's defined flood event including a description of:**

- **how the defined flood event was chosen;**
- **the way in which the council's defined flood event was calculated or determined.**

3.1 No defined flood event has yet been chosen and reflected within the planning schemes identified above.

3.2 Since 2006, Council has utilised a map titled “Emerald Interim Flood Levels Map to Determine Floor Level” to establish a minimum floor level above the flood level (**Attachment 3**). The flood level captured within this

mapping is not defined in terms of average recurrence and was prepared by the former Emerald Shire Council with reference to historical flood information (e.g. river flows, etc), aerial photos, spot heights and contour information. This information was then cross-referenced with information approximating stormwater impacts based on known storm events.

- 3.3 Mapping sourced from the 2008 and 2010/11 flood events of the Nogoia River (**Attachment 4**), has also been utilised to inform the consideration of development applications in flood affected areas. These maps indicate the area inundated by water, but do not identify the depth of inundation, nor the velocity of flow at the current time, except for spot heights identified based on the peak flood data collected from these events. They are therefore considered to be used as a guide only, but are referred to by Council in its decision making processes.
 - 3.4 Mapping from 2010/2011 identifying contour information is also understood to be available soon, and this will likewise assist in Council's decision making processes and management of developments proposed within known flood prone areas.
 - 3.5 At this time, the average recurrence interval for both of these events is unknown. Once additional information is made available to Council through the completion of studies by C&R Consulting and KBR Consulting, this information will enable Council to allocate a return interval to these events to inform future planning studies, policy and the creation of a new planning scheme for the Central Highlands.
 - 3.6 Council has resolved to prepare a Temporary Local Planning Instrument to address flood impacts in the short term whilst the new planning scheme is being developed. This document intends to utilise information from both the 2008 and 2010/2011 flood events of the Nogoia River to identify the highest known level of inundation, with Council utilising this information to establish a worst case scenario that will form the baseline for flood mitigation strategies within this planning document.
- 4. A description of any planning requirements to have evacuation routes and/or early warning systems for areas identified to be at high risk of flooding, including information about how the existence of such evacuation routes and/or early warning systems are communicated to occupiers of areas at high risk of flooding.**
- 4.1 Within the four (4) current planning schemes for the Central Highlands, no specific requirements are included requiring evacuation routes and/or early warning systems to be included within developments known, or reasonably believed to be, at risk of flooding.
 - 4.2 However, all assessments are conducted on a site specific basis and as such, where appropriate, conditions are attached to developments to ensure access, or a means to evacuate during natural disaster events.

- 4.3 Examples of this approach can be seen in the decisions taken to approve the following subdivisions, to provide an emergency egress for persons during flood events:
- C3/93 – Riverview Street and Gray Street, Emerald (Subdivision 19 lots) – Approved: 30/06/1993; and
 - C4/93 - Riverview Street and Gray Street, Emerald (Subdivision 5 lots) – Approved: 16/10/1993.
- 4.4 These decisions provided for an easement to be provided to enable residents of land at Waldby Court with an alternate access location through Lots 7 and 8 on RP817168.
- 4.5 This approach to conditioning has also been utilised with respect to Bushfire impacts as part of the Development Permit for Stage 1 of the Echidna Valley Estate, a 25 lot reconfiguration of lot (File Reference: D537/04).
5. **A description of any controls or standards used to assess the storage of chemicals or other Environmentally Relevant Applications for development below the Q100 flood line or the Council's defined flood event.**
- 5.1 All applications for the storage of flammable and combustible liquids are assessed in accordance with the provisions of the *Dangerous Goods Safety Management Act 2001* and *Australian Standard 1940*. Although there are no specific criteria within the legislation in respect of storage below Q100 flood line, the provisions are stringent in relation to the appropriate storage and containment of chemicals.
- 5.2 When assessing applications for Environmentally Relevant Activities, Council adheres to the provisions of the *Environmental Protection Act 1994*, *Environmental Protection Regulation 2008*, Codes of Compliance and guidelines when imposing conditions. Again there are no specific criteria for conditioning ERAs below the Q100 flood line.
- 5.3 Until the 2010/2011 flood event Council had no specific data on flood levels to be able to impose additional conditions on ERAs and chemical storage facilities that may be below the Q100 flood line. It would appear that the current legislation for the storage of chemicals and approval of ERAs does not have any provision to impose additional conditions where they are located below the Q100 flood line and as such it is questionable as to what head of power Council would have to impose such flood mitigation measures.
6. **A description of any conditions imposed by Council on the approval of development application to ensure that hazardous materials affected by flood water do not affect public safety and/or the environment.**
- 6.1 Development approval conditions imposed on storage facilities for hazardous materials do not relate specifically to affects by flood water but the general conditions do impose a duty of care on the operator not to cause environmental harm or environmental nuisance. Standard

conditions require that the facility is protected from the impacts of surface water runoff and any contact is contained on the site.

- 6.2 Development approval conditions are formulated to meet the requirements of the *Environmental Protection Act 1994* and Regulations, the *Dangerous Goods Safety Management Act 2001* and Regulations, *Australian Standard 1940* and any other relevant code of compliance guidelines. The Development Approval conditions are quite detailed and have therefore not been detailed herewith, but examples can be provided on request.

7. A description of how levee banks are regulated in the Council area using specific examples.

- 7.1 The Central Highlands Regional Council administers two (2) Local Laws with respect to the construction of levee banks within the former local government areas of Emerald Shire and Peak Downs Shire, namely:
- a) *Emerald Shire Council Local Law (Levee Banks) No. 45 of 1997;*
and
 - b) *Peak Downs Shire Council Local Law No. 2 (Levee Banks).*
- 7.2 There are no Local Laws in relation to the construction of levee banks within the former local government areas of Bauhinia Shire and Duinga Shire.
- 7.3 As noted in Council's previous response to the Queensland Floods Commission of Inquiry, dated 11 August 2011, since 1997, applications for levee banks were assessed by the Nogoa River Flood Plain Board, although Council is aware of two (2) levee banks that were established since this time that received approval from the Queensland State Government and benefited Ensham Resources Pty Ltd.
- 7.4 The Nogoa River Flood Plain Board was established to manage and control the development and use of works on the Nogoa River Flood Plain. The Board administers Local Law (Levee Banks) No. 1 - 1997 (as amended 14/01/2000).
- 7.5 When an application is received, the Board seeks independent expert assessment of the application from SunWater who then prepare a Hydraulic Impacts Assessment Report by running the data through the model developed for the Board and updated in 2007 to include all existing structures on the flood plain.
- 7.6 Based on the recommendation contained in the report the Board either approves or refuses the application. In the event of an approval being granted, the levee bank is issued a permit and licensed for a period of ten (10) years.
- 7.7 Since the Board's inception in 1997, thirteen (13) Levee Bank applications have been approved, excluding applications approved by the Queensland State Government.

8. Details of Council infrastructure (sewers, roads, stormwater etc) that was affected by flooding during the period 1 December 2010 to 31 January 2011.

8.1 This section is broken down into details on:

- Urban infrastructure,
- Rural infrastructure, and
- Sport and Recreation Facilities.

8.2 This response has been prepared with reference to the statement of Mr William Jeremy Turner, General Manager Civil Operations, Central Highlands Regional Council, who has provided a separate response to the Flood Commission of Inquiry that addresses this question.

8.3 Urban Infrastructure

A significant amount of Council infrastructure was affected by the flooding either by inundation or the effects of flowing water. Affected infrastructure included roads, water supply, wastewater, parks and gardens, sports fields, stormwater, bridges, some buildings and public amenities. The urban areas most affected were Emerald and Rolleston although there were roads affected in other townships within the Central Highlands Regional Council area.

8.4 Emerald

8.4.1 **Flood Spread:** The extent of flood spread within Emerald is shown in Attachment 4. This flood spread information was compiled by the Manager Corporate Governance, Central Highlands Regional Council, and was based on site observations, post event water marks, debris deposition and input from private individuals.

It should be noted that this plan shows the extent of water inundation only and gives no indication of water depth, water velocity, direction of flow or duration of inundation. All council infrastructure in the flood spread area was affected to varying degrees.

8.4.2 **Sewerage Infrastructure:** There are 30 sewer pump stations in Emerald and 19 of these were inundated by flood water. Of these 7 suffered electrical damage as a result of control panels and/or switchboards being submerged and required repairs before they could be returned to service. The 12 pump stations that were submerged without electrical damage were able to return to service once flood waters had subsided below the level of the pump station lid. Attachment 5 shows the location of the affected pump stations.

The wastewater treatment plants in Emerald, located in Park Avenue and Black Gully (north east of the Airport) were not affected by flooding.

- 8.4.3 **Water Infrastructure:** The Opal Street Water Treatment Plant was not greatly affected by flooding although temporary levees were installed to keep flood water out. The water reticulation network is effectively a "closed" system and was not affected.
- 8.4.4 **Roads:** Many roads in Emerald were affected by flooding as is evident from the Flood Spread map. The depth of flooding varied as did the duration. Those roads that were subjected to longer periods of submersion have generally deteriorated with time as vehicle loads on the saturated pavements have caused cracking, rutting and deformation. In addition to the road pavement, other infrastructure such as footpaths, kerbing, street signs and street trees were also affected by the flooding.
- 8.4.5 **Bridges:** The John Gay Bridge over the Nogoia River is a low level structure and was closed for a significant period of time. Although the structure itself did not suffer any damage the approaches to the bridge were saturated and required repairs.
- 8.4.6 **Parks & Gardens:** Many park and garden areas were flooded but generally sustained no long term damage. Four pumps used to extract irrigation water from the Nogoia River near the Botanic Gardens were all affected by flood debris but were cleared of debris and silt and returned to service once water subsided.
- 8.4.7 **Cemeteries:** The Emerald cemetery in Park Avenue was not affected by flooding.

8.5 Rolleston

- 8.5.1 **Flood Spread:** Attachment 6 shows the extent of the Flood Line with the water level being well above the highest level previously recorded.
- 8.5.2 **Sewerage Infrastructure:** Two pump stations located near the Comet River were flooded and suffered electrical damage.
- 8.5.3 **Water Infrastructure:** The Rolleston Water Treatment Plant, located alongside the Comet River, was inundated with about 500mm of water on the floor. Water from an emergency bore field was used to maintain the water supply to the township. As part of water supply security an in line chlorinator had been installed at the bore in anticipation of the need to use the bore field.
- 8.5.4 **Roads:** A few roads within the town were affected by flood waters but inundation was not long term and traffic loadings were generally light with little if any permanent damage being caused.

8.6 Other Towns

All towns in the council area were affected to some extent by flooding of varying degrees. In some case this was surface water only which dissipated quickly after rain eased off or stopped. The towns of Sapphire, Rubyvale and Bluff experienced flood waters that covered low lying areas including sports fields but these recovered as the water receded.

Many towns were isolated for several days by flood waters as rivers and streams rose to high levels resulting in road closures of both council and state roads. Examples were the Capella Rubyvale Road (council road) and the Gregory Highway (state road) from Emerald to Capella and Emerald to Springsure.

8.7 Rural Infrastructure

Numerous roads throughout the council area were affected by flooding. In some cases the effect was inundation with the roads being relatively undamaged and able to carry traffic as soon as water receded.

In cases where the water remained for some time the road pavements became very saturated and suffered damage once reopened. This damage became noticeable over a period of time as vehicle usage, particularly by heavy vehicles, was unable to be sustained by the road pavements because the saturation resulted in a significant loss of strength.

On many unsealed roads pavement saturation was extreme due to the absence of a water proofing seal coat and usage was either restricted to light vehicles only or the road was closed until conditions improved. A number of roads were so saturated that heavy vehicle usage was not possible for many months. This caused problems in several areas because the cartage of cattle to sale yards, feed lots or slaughter was not possible for up to nine months.

Some roads were so badly damaged by large volumes of flood waters that had sufficient velocity to scour out roads completely that complete rebuild of some sections of road were necessary.

8.8 Sport and Recreation Facilities

A total of twenty eight sport and recreation clubs within the council area were affected by flooding. Although most club buildings, facilities and equipment is owned by the clubs themselves the grounds on which they operate are owned by the Central Highlands Regional Council. More details on the extent of damage are contained in the "**Sporting Clubs Flood Damage Report**" prepared by Debbie Hall (Department of Communities) and Mike Priddle (Central Highlands Regional Council) which is included with this statement as **Attachment 7**.

9. A description of the measures used by Council to protect Council infrastructure (sewers, roads, stormwater etc) and to ensure such infrastructure functions during defined flood event.

- 9.1 In preparing for the 2010/2011 flood event of the Nogoia River, Council engaged a surveyor to establish the levels of key infrastructure associated with the Opal Street Water Treatment Plant, Sewer Pump Stations and Switchboards prior to the event. These levels informed staff as to what infrastructure would be affected at various predicted flood levels.
- 9.2 Temporary levees were established to protect infrastructure within the Water Treatment Plant, to ensure the ability of Council to maintain the production of potable water for Emerald.
- 9.3 Power was also disconnected from facilities and infrastructure, such as sewer pump stations, within known flood prone areas.
- 9.4 Other actions taken to minimise damage sustained by Council infrastructure included the closure of roads to all traffic, to protect the integrity of saturated road pavements, and the removal of bins, etc. from Council parks located within known flood affected areas to reduce the potential for loss or damage of these assets, and eliminate the potential for these assets causing damage further downstream.
- 9.5 Council also undertook routine inspections of infrastructure prior to this flood event to ensure that infrastructure was performing appropriately, for example flood gates on stormwater infrastructure.

And I make this solemn declaration conscientiously believing the same to be true, and by virtue of the provisions of the *Oaths Act 1867*.

[Redacted Signature]

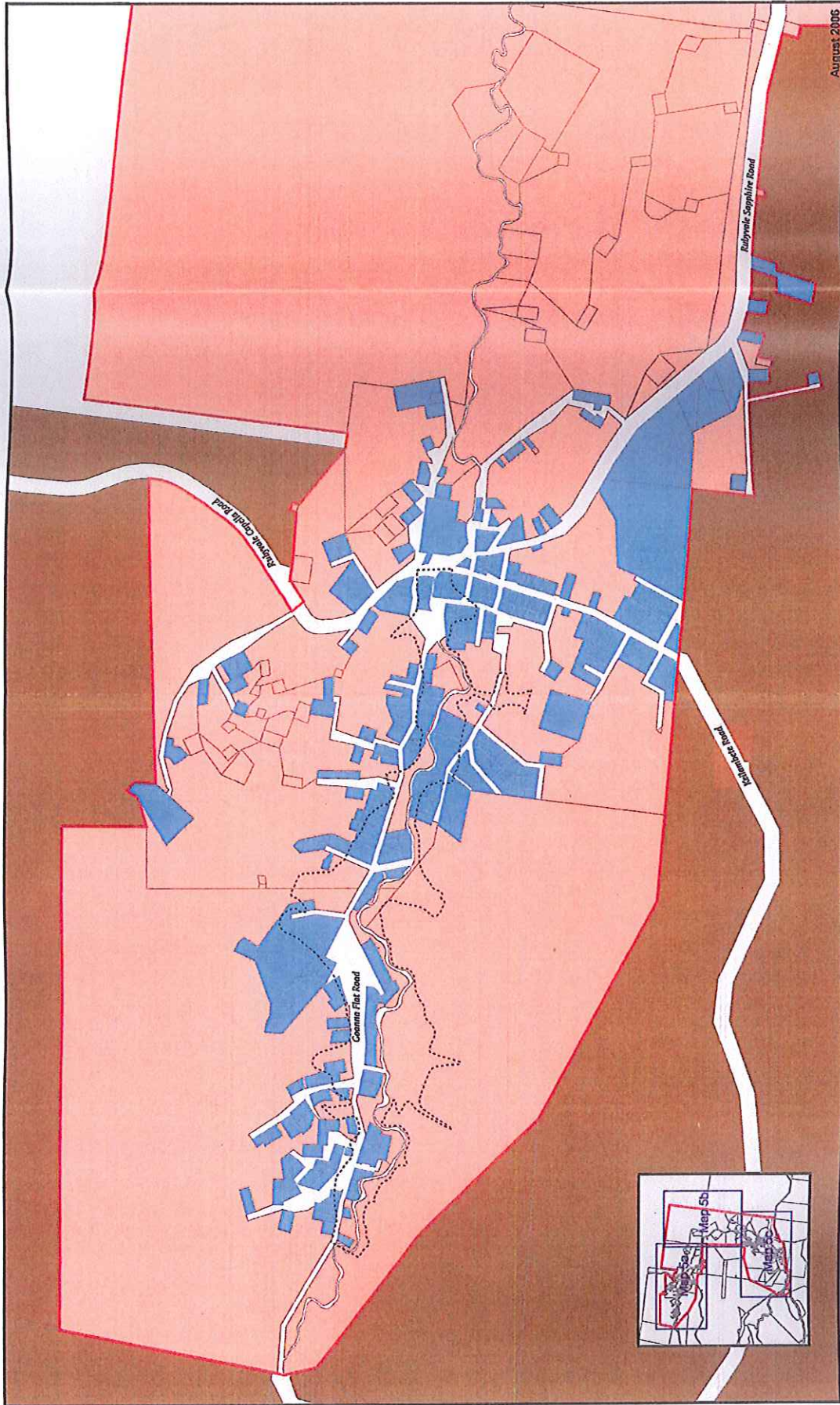
Declarer

Taken and declared at Emerald this 1st day of September 2011, before me

[Redacted Signature]

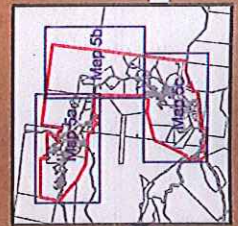
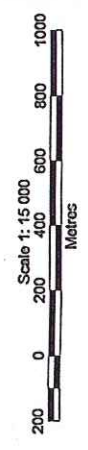
Justice of the Peace





August 2006

- Key**
- Rural Zone
 - Gemfields Zone
 - Cadastral Parcels (Excluding Easements and Special Licences)
 - Core
 - Balance
 - Minimum Flood Levels Pollicamans Creek - 1/12005




GEMFIELDS ZONE - SAPPHIRE & RUBYVALE
Town Planning Scheme
Zoning Map No. 5a

Digital Cadastral Database current to June 2005

Emerald Township - January 2008 Flood



Legend
 January 2008 Flood



This map depicts the January 2008 flood areas in Emerald Township. It is not intended to be used as a legal document. The map is provided for informational purposes only. Emerald Township Regional Council is not responsible for any errors or omissions on this map. © Emerald Township Regional Council

Legend
 January 2008 Flood




Disclaimer
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Emerald Township - December 2010 Flood



Legend
 December 2010 Flood



The map data is derived from the 2008 Census of Canada and is not intended to be used for navigation or other purposes.

The map is a reproduction of the map published on the website of the Central Highlands Regional Council. It is not intended to be used for navigation or other purposes.

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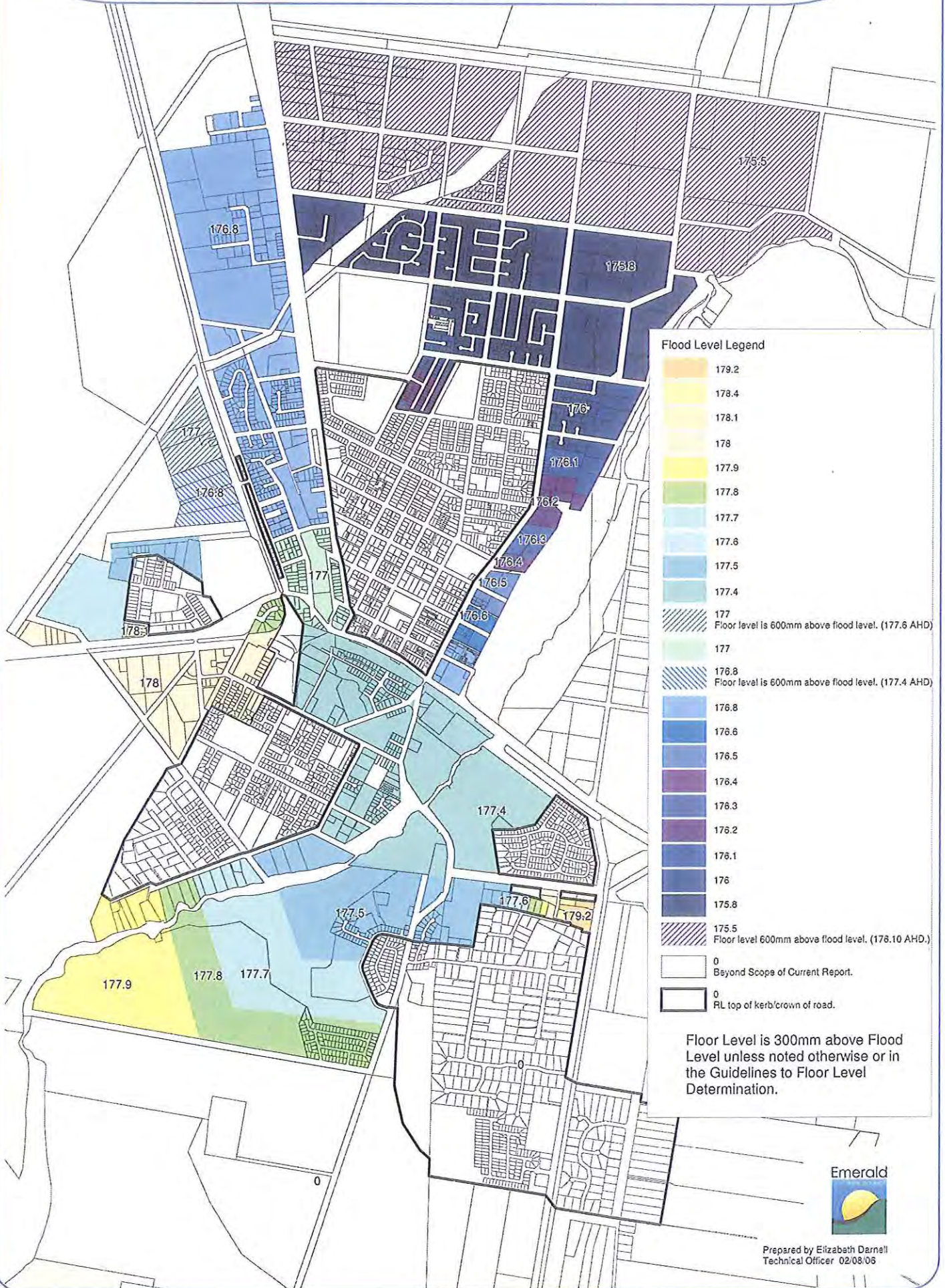


Disclaimer

The information on this map is for general information only and is not intended to be used for navigation or other purposes. It is not intended to be used for navigation or other purposes. It is not intended to be used for navigation or other purposes.



Emerald Interim Flood Levels Map To Determine Floor Level



Flood Level Legend

	179.2
	178.4
	178.1
	178
	177.9
	177.8
	177.7
	177.6
	177.5
	177.4
	177 Floor level is 600mm above flood level. (177.6 AHD)
	177
	176.8 Floor level is 600mm above flood level. (177.4 AHD)
	176.8
	176.6
	176.5
	176.4
	176.3
	176.2
	176.1
	176
	175.8
	175.5 Floor level 600mm above flood level. (178.10 AHD.)
	0 Beyond Scope of Current Report.
	0 RL top of kerb/crown of road.

Floor Level is 300mm above Flood Level unless noted otherwise or in the Guidelines to Floor Level Determination.



Land Inundation - 31 Dec 2010 Flood - Emerald



Legend
 December 2010 Flood
 Area (see Annex map 310)



Disclaimer
 Central Highlands Regional Council provides this information as a guide only. It is not intended to be used as a basis for any legal or financial decision. The Council is not liable for any loss or damage arising from the use of this information.

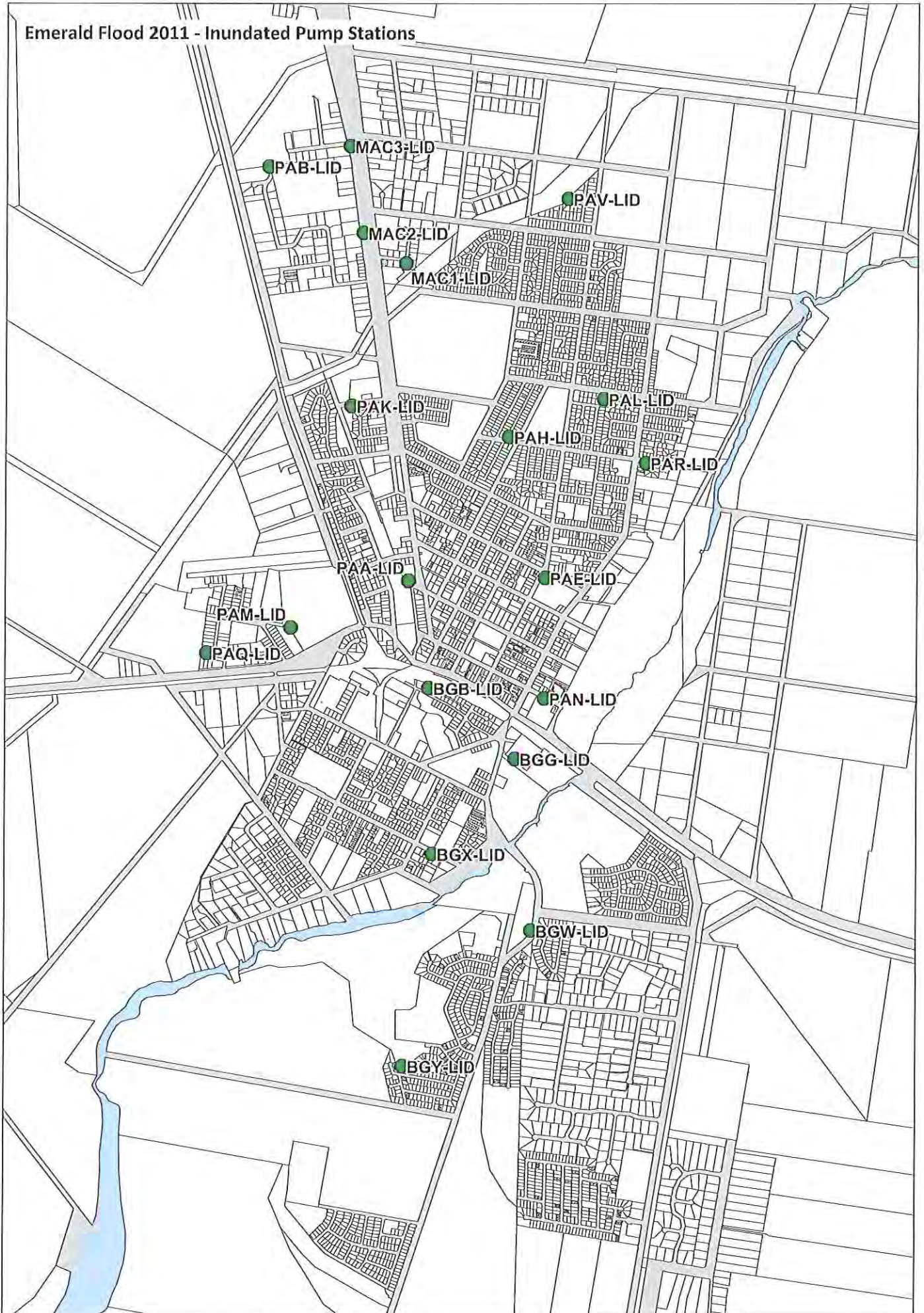
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 Date: 31 Dec 2010

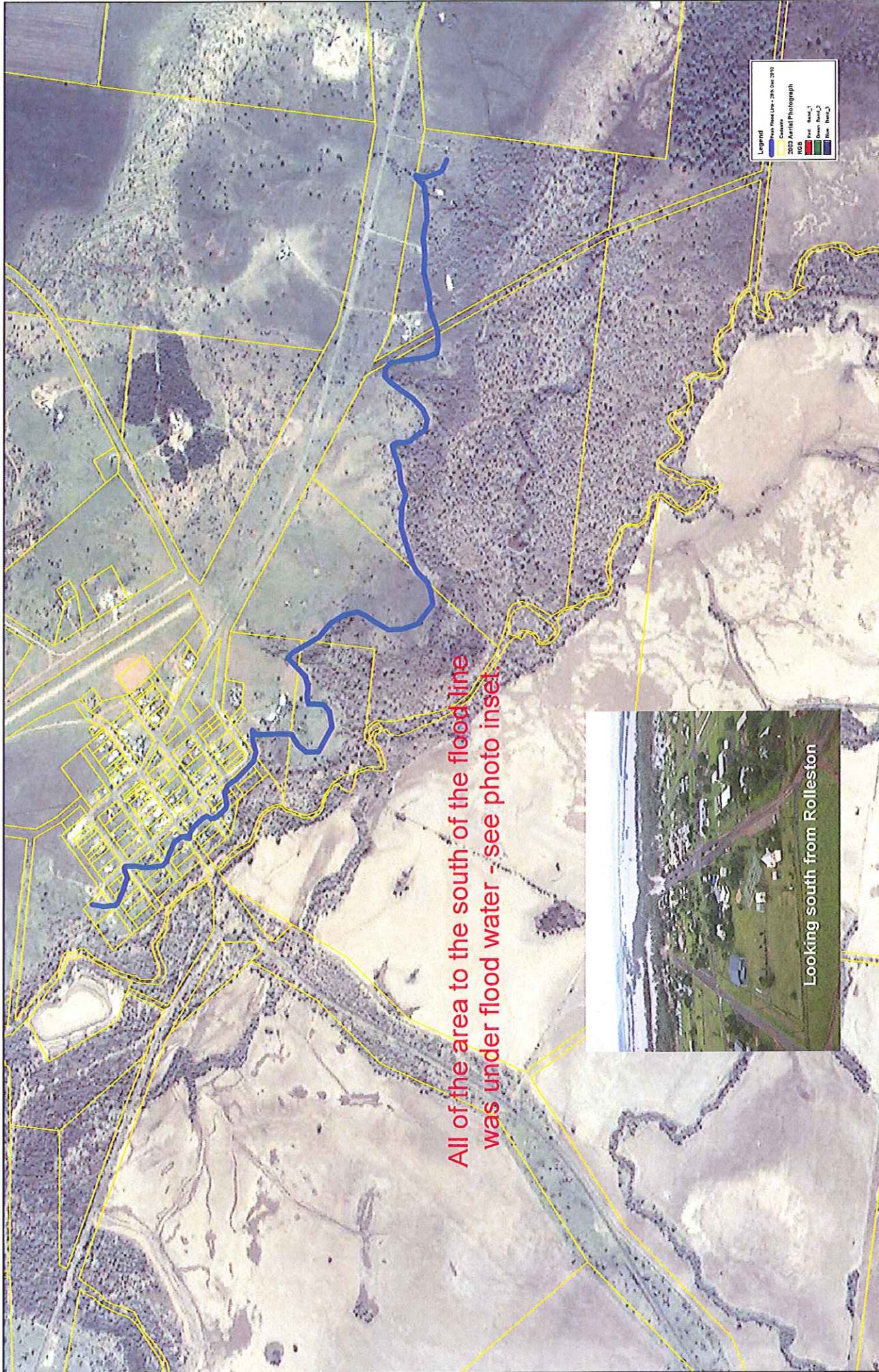
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 Land Use: Queensland Land Use Database (QLUD)
 Property: Queensland Property Database (QPD)

Source:
 Queensland Government (QGOV)
 Queensland Department of Natural Resources and Environment (DNRE)
 Queensland Department of Transport and Infrastructure (DTI)

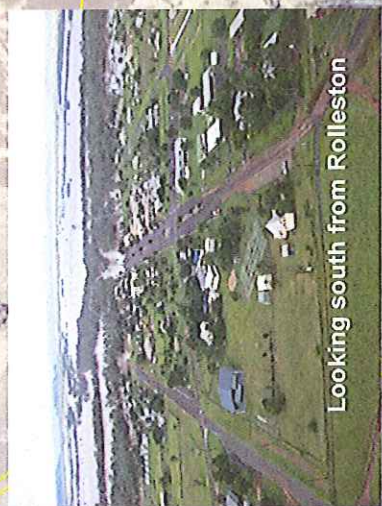


Emerald Flood 2011 - Inundated Pump Stations





All of the area to the south of the flood line was under flood water - see photo inset.



Looking south from Rolleston

0 250 500 Meters

Map produced B Wilkinson

Rolleston - 28 Dec 2010 Flood Current Extent of Flood Mapping





Central Highlands Regional Council

Sporting Clubs' Flood Damage Report

Prepared by: [REDACTED] (Department of Communities)
[REDACTED] (Central Highlands Regional Council)

Date: January 21, 2011

Overview:

Twenty-eight sport and recreation clubs in the Central Highlands Regional Council area were directly affected and suffered equipment and infrastructure damage as a result of the December 2010/January 2011 flood event.

Effectuated clubs/organisations were:

Morton Park – Emerald Netball Association, Emerald Junior Soccer Association, Emerald Rams Rugby Union Club

McIndoe Park – Emerald Brothers Cowboys RLFC, Emerald Tigers RLFC, Emerald Brothers Junior Rugby League and Emerald Junior Rugby League

Pioneer Park – Emerald Jockey Club, Emerald Polocrosse Club, Emerald Touch Association

Emerald Showgrounds – Central Highlands Regional Cricket, Emerald Boxing Club, Emerald Rodeo Association

Epic All Sports – Epic All Sports, Magpies Cricket Club

Other facilities - Emerald – Emerald Fighters Inc, Emerald Golf Club, Emerald Horse and Pony Club, Emerald Pistol Club, Maraboon Powerboat and Ski Club

Blackwater – Blackwater Country Club (golf club), Blackwater Junior Motorcycle Club, Blackwater Powerboat & Ski Club, Bluff/Blackwater Amateur Race Club

Comet – Comet River Pony Club

Duaringa – Duaringa Cricket Club

Gemfields – Gemfields Junior Rugby League Club

Springsure – Springsure Pony Club

Interviews were conducted on site with representatives of each of the organisations from January 10 to January 21.

The associations were affected to varying degrees and very few carry flood insurance. At the time of compiling this report, a number of clubs had been unable to assess the full extent of the damage. The organisations were also not in a position put a dollar value to the cost of repairing/replacing damaged infrastructure and equipment at that stage.

Details of the damage experienced by individual organisations are as follows:

Morton Park:

• Emerald Junior Soccer Association (Emerald Eagles Football Club)

Located: Morton Park, Emerald

Contact: Mike Featherstone

Description of water inundation – Floodwaters covered all fields to an approximate height of 1.5m. Water also inundated the clubhouse (1.5m), storage shed and Council-owned toilet block. Inundation lasted approximately three days.

Damage sustained – *Infrastructure:* Concrete slab on clubhouse/equipment shed; seven doors in clubhouse and equipment shed; kitchen cupboards and benches; equipment storage cupboard and shed guttering; and possible sinkhole subsidence on fields to be confirmed.

Damage sustained – *Equipment:* Honda mower; 110lpm compressor; 3 fridges (TBC); 1 freezer (TBC); photocopier and fax machine; PA system; line marker; \$5000 junior jerseys; balls; bibs; 6 x first aid kits; miscellaneous office supplies; canteen stock; training cones; water bottles; flood lighting bulbs (were in storage); barbecue (TBC); and club records/paperwork.

Effect on ability to operate – Will delay plans for newly formed CQ competition.



- **Emerald Netball Association**

Located: Morton Park, Emerald
Contact: Debbie Hall

Description of water inundation – Floodwaters covered all courts to an approximate height of 1.5m. Water also inundated the clubhouse (.6m), storage shed and toilet block. Inundation lasted approximately three days.

Damage sustained – Infrastructure: Possible structural damage to clubhouse to be assessed (including stairs), significant subsidence on court 5 and further subsidence noted to the northern end of court 3 (yet to be confirmed but is covered with a large pool of water). Minor subsidence courts 1, 2 and 4.

Damage sustained – Equipment: Fridge and freezer, uniforms/merchandise, balls and misc training equipment, chairs.

Effect on ability to operate – Minor subsidence issues on courts 1, 2 and 4 needed to make them playable to enable season to get underway. Work on court 3 will be required as soon as possible if membership increases this season. Significant subsidence on court 5 poses public safety risk.



- **Emerald Rams Rugby Union Club**

Located: Morton Park, Emerald
Contact: Andrew Erbacher

Description of water inundation – Floodwaters covered the playing field and inundated the clubhouse and storage container to a height of 1.2m for approx 2-3 days.

Damage sustained – Infrastructure: Existing kitchen destroyed as was a new modular kitchenette that was being stored in the storage container awaiting installation; shelving under bar; two doors; and possible damage to lighting/electrical wiring.

Damage sustained – Equipment: Two gas water heaters; goal post and tackle pads; hit shields; water bottles; fridge/freezer; drinks fridge; line marking machine; padding on scrum machine; trophies; tables and baine marie.

Effect on ability to operate – No effect on ability to stage games/training but catering (source of income) will be affected.



McIndoe Park:

- **Emerald Brothers Cowboys RLFC, Emerald Tigers RLFC, Emerald Brothers Junior Rugby League and Emerald Junior Rugby League**

Located: McIndoe Park, Emerald

Contacts: [REDACTED] (Emerald Brothers JRL), [REDACTED] (Emerald JRL), [REDACTED] (Emerald Tigers RLFC) and [REDACTED] (Emerald Brothers Cowboys RLFC)

Description of water inundation – Floodwaters in excess of 2m covered the three fields, toilet/changing room facilities and storage donga and inundated the clubhouse/canteen to an approx height of 1.2m for a period of three days.

Damage sustained – Infrastructure: Significant damage to the clubhouse/canteen and fittings (doors, floor, lino, bar etc); dressing shed doors; perimeter fencing; clubhouse electrical wiring and storage donga (shared by four clubs). The maintenance shed was destroyed, seating on 13 grandstands, which were displaced by strong water current, will need to be replaced; and the light box for playing fields will need to be checked. Fields also lost recently applied top soil.

Damage sustained – Equipment: Shared - speakers; hot water system; signage and goal post.

Emerald Tigers RLFC – 2 x cricket kits; 4-door bar fridge; club memorabilia; and club records/paperwork. May also be faced with the situation where sponsors are now not able to fund jerseys (already ordered) due to their own flood-related issues.

Emerald Brothers JRL – Tackling bags (TBC).

Emerald Junior RL – Nil.

Emerald Brothers Cowboys RLFC – Nil.

Effect on ability to operate – As it is CH-wide, the 2011 season draw will go ahead as scheduled but local clubs' ability to host games (include scheduled rep game) will be affected. Training will be disrupted. Damage to fence will impact on clubs' ability to receive gate takings, which is a significant source of revenue.



Pioneer Park:

- **Emerald Jockey Club**

Located: Pioneer Park, Racecourse Road, Emerald

Contact: [REDACTED]

Description of water inundation – Floodwaters from the overflowing drain to a height of approximately 1m swept over the racecourse. The fields were inundated for approx 24 hours.

Damage sustained – Infrastructure: The road to the stables has been washed out in many places. The perimeter fence along Hospital Road has been flattened and severely damaged along Moody Street. The work track has sustained large washouts and this has made the track unusable. The work track will require a complete re-sanding.

Damage sustained – Equipment: Water damage to ride on mower.

Effect on ability to operate – Trainers are currently unable to work horses properly on the work track but the next scheduled race meeting (Feb 12) will go ahead.



- **Emerald Polocrosse Club**

Located: Pioneer Park, Racecourse Road

Contact: [REDACTED]

Description of water inundation – In the early stages of the flood event, the Club's fields were used for emergency helicopter landings and sustained damage as a result. The four fields were later inundated with floodwater for approx 24 hours.

Damage sustained – Infrastructure: Fields have deep wheel ruts from emergency vehicles/trucks and turf has been affected by helicopter fuel/oil in places. Damage to the field also resulted from the helicopter crash on site. There are also wheel ruts in the parking area. The fields are covered in a layer of clay silt, which will become extremely slippery for horses when wet, so facility will require topdressing. A significant amount of sand and crusher dust from the race track has been washed onto one field in large deposits. There are major issues with silt build-up blocking drainage, which will cause significantly more damage should more rainfall occur. Damage to irrigation set-up is possible but still to be determined.



Damage sustained – Equipment: Nil

Effect on ability to operate – Drainage problem will have long-term effect on the facilities if not rectified. Grounds will be required for resumption of playing season in April.

- **Emerald Touch Association**

Located: Pioneer Park, Racecourse Road, Emerald

Contact: [REDACTED]

Description of water inundation – Water inundated playing fields for approx 24 hours.

Damage sustained – Infrastructure: TBC

Damage sustained – Equipment: TBC

Effect on ability to operate – TBC

Emerald Showgrounds:

- **Central Highlands Cricket**

Located: Various – Emerald

Contact: [REDACTED]

Yet to confirm interview.

- **Emerald Boxing Club Inc**

Located: Pavilion, Emerald Showgrounds, Capricorn Highway

Contact: [REDACTED]

Description of water inundation – Inundation to an approx height of .5m through training facility.

Damage sustained – Infrastructure: Nil.

Damage sustained – Equipment: Punching bags, mits, 2 medicine balls, bench presses (TBC) and ring underlay.

Effect on ability to operate – Ring underlay needs to be replaced in order to hold matches/practice.

- **The Emerald Rodeo Association**

Located: Emerald Showgrounds, Capricorn Highway

Contact: [REDACTED]

Yet to confirm interview.

Epic All Sports:

- **Epic All Sports Inc**

Located: Cnr Brooks and New Streets, Emerald

Contact: [REDACTED]

Description of water inundation – Floodwaters to a height of approx 6ft covered the playing fields and inundated the club (800mm) for a period of four days.

Damage sustained – Infrastructure: Possible sinking of and damage to artificial cricket pitch; possible damage to concrete in two cricket nets and cricket nets' carpet/pitch destroyed. Playing field may also need top dressing/levelling.

Damage sustained – Equipment: Nil (covered by insurance).

Effect on ability to operate – Will impair/delay resumption of cricket fixtures at this site.



- **Magpies Cricket Club**

Located: Epic All Sports, Cnr Brooks and New Streets, Emerald

Contact: [REDACTED]

Yet to confirm interview.

Other facilities - Emerald:

- **Emerald Fighters Inc**

Located: [REDACTED]

Contact: [REDACTED]

No contact details.

- **Emerald Golf Club**

Located: Onal Street, Emerald

Contact: [REDACTED]

Description of water inundation – Floodwaters covered all 18 fairways/greens and bunkers for a period of more than three weeks.

Damage sustained – Infrastructure: Two greens will need to be replaced and the rest require major repairs (sand, gravel, turf, tree/debris removal etc); pump has been submerged for a significant period (still to be checked) but associated pipes have been damaged; seven satellite receivers for the irrigation system destroyed; irrigation electricity supply damaged; boundary fence damaged; and tee signs and posts will need to be replaced.

Damage sustained – Equipment: Maintenance equipment; greenkeeper's office equipment and computer.

Effect on ability to operate – Club may have limited/restricted course established in two weeks.



- **Emerald Horse and Pony Club**

Located: White Street, Emerald

Contact: [REDACTED]

Description of water inundation – Floodwaters totally submerged stables, 2 equipment/feed sheds and the pony club arena for a number of days.

Damage sustained – Infrastructure: Equipment/tack shed; Feed shed; sand/soil washed out of stables.

Damage sustained – Equipment: Nil

Effect on ability to operate – Sheds and stable sand required to accommodate horses that are stabled at the club's facility.



- **Emerald Pistol Club**

Located: Selma Road, Emerald

Contact: [REDACTED]

Description of water inundation – Floodwaters covered the facility to a height of up to 4m (range 1), inundating the toilet block, office and donga/equipment container, and reaching a height of 2.1m in the clubhouse. The facility was inundated for 10 days.

Damage sustained – Infrastructure: Damage was sustained to three ranges, clubhouse (including kitchen, workshop and office), toilet block, access road and 5000l tank.

Damage sustained – Equipment: Workshop equipment; pump; two compressors (TBC); computer/printer; filing cabinets; fridge/freezer; freezer; bar fridge; canteen stock (meat, condiments etc); stove; \$2000 paper targets; electronic range timer; two lounges; stereo; tables and desks.



Effect on ability to operate – Mounds on two ranges need to be fixed to operate at capacity according to Weapons Licensing legislation.

- **Maraboon Power Boat and Ski Club**

Located: Fairbairn Dam

Contact: [REDACTED]

Description of water inundation – Facilities were damaged by a storm prior to Christmas 2010 and have been submerged by floodwaters for 6-8 weeks.

Damage sustained – *Infrastructure:* The judges' stand was totally submerged and remains partially under water. Possible damage to the stand's stairs and electrical work and possible erosion around concrete slab. The facility's undercover area may also require painting and repairs to benches.



Damage sustained – *Equipment:* Audio cables.

Effect on ability to operate – Repairs will be required to be completed by next major event in August.

Blackwater:

- **Blackwater Country Club (golf club)**

Located: Blackwater

Contact: [REDACTED]

Description of water inundation –

Damage sustained – *Infrastructure:* Two walk-way bridges destroyed, making one green inaccessible.

Damage sustained – *Equipment:* Nil.

Effect on ability to operate – Limited – one green currently inaccessible.

- **Blackwater Junior Motorcycle Club**

Located: Blackwater

Contact: [REDACTED]

Description of water inundation – Heavy Christmas rainfall caused overflow from Council water treatment plant, which subsequently surged through club facilities, damaging track and bursting club's dam.

Damage sustained – *Infrastructure:* Dam wall blown out; damage to drainage and jumps; 2000-3000 m³ of sand washed from 1.8km track

Damage sustained – *Equipment:* Freezer.

Effect on ability to operate – Track can be used for practice runs but under licensing requirements, sand is required to be laid on the track for competitions.



- **Blackwater Powerboat & Ski Club**

Located: Bedford Weir, Blackwater

Contact: [REDACTED]

Description of water inundation – Facilities were submerged by floodwater for approximately 3 weeks

Damage sustained – *Infrastructure:* Significant damage to the ski clubs toilet block/equipment shed (roof, internal walls etc); switchboard, metre boxes and electrical wiring will need to be replaced. The rainwater tank was displaced by strong water current and will need to be repaired if possible or replaced. The shade shelters have sustained significant damage (rooves ripped off or torn) and will need to be replaced.

Damage sustained – *Equipment:* Ski equipment; popup sprinkler system; pressure pump; hot water system

Effect on ability to operate – Facilities are unusable at present



- **Bluff/Blackwater Amateur Race Club**

Located:

Contact: [REDACTED]

Description of water inundation –

Damage sustained – *Infrastructure:*

Damage sustained – *Equipment:*

Effect on ability to operate –

Comet:

- **Comet River Pony Club**

Located: Comet

Contact: [REDACTED]

Course remains inaccessible but suspect damage to cross country course and equipment.

Duaringa:

- **Duaringa Cricket Club**

Located: Duaringa

Contact: [REDACTED]

Description of water inundation – At some point during the Christmas/New Year break, water surged down Ann Street and washed through the cricket facility.

Damage sustained – *Infrastructure:* Possible damage to the storage container.

Damage sustained – *Equipment:* Fridge and freezer; two artificial pitches (roll-up); and miscellaneous cricket gear.



Effect on ability to operate – The Club is unable to conduct any planned matches and events without replacing the artificial pitches.

Gemfields:

- **Gemfields Junior Rugby League Club**

Located: Roy Day Park, Sapphire

Contact: [REDACTED]

Description of water inundation – Fields were inundated during flooding prior to Christmas 2010 to a height of between 0.5 and 1 metre for two days. Water also inundated the equipment shed and toilet block.

Damage sustained – *Infrastructure:* Toilet doors in amenities block will have to be replaced and the field will require top dressing. A significant amount of sand/gravel from the carpark has been washed onto the area adjacent to the field. There may also be damage to the caretaker's residence.

Damage sustained – *Equipment:* Fridge, lawnmower, tackling bags (TBC), goal post pads (TBC) and miscellaneous training gear and equipment.



Effect on ability to operate – Nil at this stage.

Springsure:

- **Springsure Pony Club**

Located: Pony Club Road, Springsure

Contact: [REDACTED]

Description of water inundation – Heavy rain prior to Christmas caused breaks in the contour banks and water surged through grounds. The situation deteriorated with each subsequent rainfall event.

Damage sustained – *Infrastructure:* Areas of the contour banks have been destroyed; drainage damaged; deep water gouges through work area/arena; and access to the second area across the creek has further deteriorated.

Damage sustained – *Equipment:* Jumping blocks destroyed (TBC).

Effect on ability to operate – Gouges to work area/arena have rendered area unsafe for use so club cannot function until it is fixed.

