

STATEMENT TO QLD FLOODS COMMISSION OF INQUIRY

NAME: Mr Anthony Martini

OCCUPATION: Director Engineering Construction and Maintenance – Moreton Bay Regional Council

DATE OF STATEMENT: 9 September 2011

I, ANTHONY MARTINI, Director Engineering Construction and Maintenance, of Moreton Bay Regional Council (MBRC) [REDACTED] Strathpine, Queensland, being under oath, say as to the points raised in the letter dated 19 August 2011 – Reference Doc 1680907:

1. Details of any council infrastructure that was affected by flooding between the period 1 December 2010 and 31 January 2011.

- 1.1 Complete Flood Event Damage Register compiled and available as **Attachment 1680907-1.**

2. Details of any flood mitigation infrastructure (for example flood detention basins, storm water culverts, back flow devices) in the Council's area including a description of the maintenance programs for such infrastructure, specific to the following areas:

- a. Male Road and Flowers Road, Caboolture;
- b. Dale Street, Burpengary;
- c. Hideaway Close, Narangba and Mathew Crescent, Burpengary; and
- d. Dux Street, Mary Street and William Street, Caboolture.

2.1 Male Road and Flowers Road adjoin the King John Creek floodplain to the north-east of Caboolture. The land parcels in this area were created generally in excess of 25 years ago when development standards related to flood immunity were less stringent than today. As a consequence, a number of properties experience flood inundation in and around their dwelling more frequently than would be tolerated in a modern subdivision. There is no flood mitigation infrastructure installed with the specific purpose of reducing this flood affectation. There is a detention basin located at the intersection of Elof Road and Male Road; however this device is not for the purpose of flood mitigation but instead for control of stormwater run-off from an adjoining site that has been developed in the recent past.

2.2 Council has recently investigated possible flood mitigation options for the Male Road area; however due to the observed pattern of flood behaviour in this area, it was found that there are no flood mitigation opportunities available to Council. A copy of Council's investigation report is included as Attachment 1680907-2 on CD.

- 2.3 Dale Street is a flood prone area that adjoins Burpengary Creek. The land parcels in this area were created generally in excess of 35 years ago when development standards related to flood immunity were less stringent than today. There is no flood mitigation infrastructure installed with the specific purpose of reducing this flood affectation. However Council operates a flood warning gauge in this area and at two locations upstream for the purpose of providing residents at Dale Street with improved flood warning.
- 2.4 Council has previously investigated the Dale Street flooding problem and has found that there are no viable flood mitigation opportunities available; however Council is currently evaluating some alternative options including a large detention basin on Burpengary Creek upstream of Oakey Flat Road.
- 2.5 Mathew Crescent is a flood prone area that adjoins Burpengary Creek. The land parcels in this area were created approximately 30 years ago when development standards related to flood immunity were less stringent than today. There is no flood mitigation infrastructure installed with the specific purpose of reducing this flood affectation. Council has recently installed an embankment with backflow prevention devices (flap gates) on a channel adjoining Mathew Crescent. This was installed to re-instate the natural floodplain behaviour that existed prior to the channel being excavated and should not be classified as flood mitigation infrastructure. It is nevertheless important that this device function at all times. Accordingly this device has been designed to minimise maintenance requirements.
- 2.6 Council is currently evaluating options for flood mitigation in this area. A copy of Council's draft report is included as **Attachment 1680907-3** on CD.
- 2.7 Hideaway Close is a recent subdivision, approximately 5 years old, and constructed to modern design standards. However, this area experienced flooding during the 11 January flood event. Council believes the reason this occurred is because the 11 January flood event exceeded the design standard that was applied. There is no flood mitigation infrastructure installed with the specific purpose of reducing this flood affectation. Council is currently evaluating options for flood mitigation in this area as described in the report included as **Attachment 1680907-3** on CD.
- 2.8 Dux Street, Mary Street and William Street are in a flood prone area that adjoins the Caboolture River. The land parcels in this area were created generally 50-100 years ago when development standards related to flood immunity were less stringent than today. There have been some new developments in Mary Street approximately 3 years ago. There is no flood mitigation infrastructure installed with the specific purpose of reducing this flood and there are no projects underway or under consideration for funding in Council's capital works program at this time for these areas.
- 2.9 There is no dedicated maintenance program to the streets/roads listed. These roads are classified within the MBRC road hierarchy as minor roads. During substantial rain events, or leading up to a forecast substantial rain event, areas which have a tendency towards local flooding are inspected by work crews to check for any obstacles in culverts and stormwater pits. During an event, these crews patrol such areas again looking for any signs of blockages or problems and look to address such matters at the time.

3. Details of the stormwater design capacity and urban run-off capacity, sewerage design capacity and the most recent review of these capacities including details of any plans to upgrade.

- 3.1 Council owns and manages a vast network of stormwater drainage systems spread across the region. The network is assembled into a large number (many thousands) of discrete sub-systems having directly connected pits and pipes. The capacity of these sub-systems and their component pits and pipes will vary according to the age and the design standards applied at the time of system design.
- 3.2 Council currently does not have any detailed program or plans to undertake a detailed review of the design capacity of the region's stormwater network. Council has a stormwater / drainage asset inspection program, principally targeted at risk assets due to their age and exposure (to sea water). These assets are inspected with CCTV equipment on a rolling 10+ year program. These asset inspections and their outcomes are fed into rolling capital works programs, based upon need and priority. Apart from this program, Council drainage engineering resources are targeted at drainage systems which have had, or are having capacity / performance concerns.
- 3.3 In relation to the sewerage design capacity, I understand that the Queensland Flood Commission of Inquiry ('Commission') has sought information from Unitywater regarding water and sewerage infrastructure matters. Unitywater are best placed to provide information pertaining to the degree if any, of the flood affectation of these assets, as well as the capacity of such assets.

All the facts sworn to in this affidavit are true and correct to my knowledge and belief except as stated otherwise.

Sworn by ANTHONY MARTINI at
Strathpine this 9th day of September 201
before me, Angus James Conaghan: