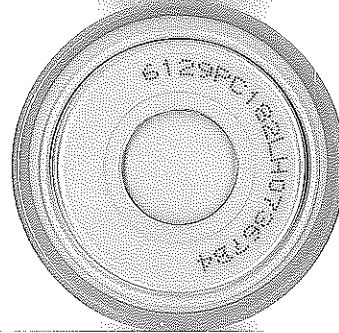


**EXHIBIT COPY 2ND STATEMENT
OF
KENNETH JOHN MORRIS**



QFCI

jm

Date:

17/05/11

Exhibit Number:

404

Second Statement of Kenneth John Morris

I, **Kenneth John Morris**, Civil Engineer, care of Green Square, 515 St Paul's Terrace, Fortitude Valley in the State of Queensland, state on oath as follows:

- A. I refer to my first Statement dated 4 April 2011 and provided to the Commission on that day.
- B. Attachment "**KJM-10**" is a copy of a notice from the Commission dated 21 April 2010 requiring me to provide certain further information to the Commission in the form of a statement by 3 May 2011 (**Notice**). This Statement is provided in response to the Notice.

1. **Floodwise**

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|---|
| (a) An explanation of how Floodwise operates, including where data is collected from and how that data is processed and presented. |
|---|

- 1.2 Floodwise is a collection of computerised systems that provides near 'real-time' rainfall information and water level information for various creek systems across South East Queensland (**SEQ**). The systems monitor hydrometric field sensors and provide flood-related information to the Brisbane City Council (**Council**), other SEQ and Northern New South Wales regional authorities, and a number of government agencies. It has also been recently expanded to include notifications to some residents in particular creek catchments under Council's Early Warning Alert System (**EWAS**).
- 1.3 FloodWise uses the gathered metered rainfall data and creek height level data to provide the following information:
- (a) detailed web-accessible information about rainfall at each gauge in a specified area; and
 - (b) information about stream heights in particular creek systems and about inundation at particular points in the vicinity of flooded creeks. Presently those points comprise roads and particular physical areas. They must be individually identified and entered into the Floodwise system, along with data about the height at the gauge (trigger point) for that particular inundation at each location adjacent to the creek.
- 1.4 The rainfall information is available through the internet to all persons who have access to FloodWise. At present, the FloodWise system is available to a number of councils and other government agencies rather than the public. Those accessing the rainfall information have different interests in the information provided, depending on their particular duties.


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- 1.5 The stream height is used to identify when trigger points (usually roads and specified physical areas such as flood liable communities) become inundated. That information is also available to various council officers and other government agencies. It has recently become available to some members of the public under the EWAS as discussed in paragraph 1.2. Flood liable communities receive their information from a third party called the Early Warning Network (EWN). The automated Floodwise messages associated with flood communities are sent to EWN, who then forward the message to those community members who have signed up to receive it. For the remainder, different officers and agencies use the information for different purposes. By way of example, the Local Asset Services unit within Council uses the information to allow it to quickly put signage on roads that are or are about to be flooded. The stream height information is also used as a basis for issuing warnings of minor, moderate or major flooding in the catchment to which the gauge relates, usually a local creek.
- 1.6 FloodWise is a system focused on local rainfall and localised flash flooding. It has not been designed to, and does not (except incidentally), provide information about general inundation of property from Brisbane River flooding. That is what the "Bender" model does (discussed below).
- 1.7 It is important to appreciate that, while the rainfall information and height data is reliable at the gauge, the further away from the gauge that the particular point of interest is located, the less reliable is the estimate of inundation consequences for a particular stream height.
- 1.8 Floodwise:
- (a) collects rainfall and water level data from 600+ telemetry gauges spread across the SEQ and Tweed regions (400+ rainfall gauges and 200+ water level gauges). There are approximately 60 rainfall and 40 water level gauges owned by Council within the Brisbane City local government area;
 - (b) processes this data into rainfall summaries and water level summaries;
 - (c) stores this information onto various databases (MS Access - locally and Oracle - network);
 - (d) processes plots of hyetographs (ie rainfall vs time), hydrographs (stage) (ie water level vs time) and rainfall contours;
 - (e) scans all trigger points entered into the system and sends warning messages via SMS and email for all those trigger points that are either inundated or about to be inundated;


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- (f) enables processed data to be viewed on the internet;
 - (g) forwards any messages from Bureau of Meteorology (**BoM**) and Seqwater as an SMS or email; and
 - (h) creates automatic situation reports on request from Flood Information Centre controllers and forwards these as an SMS or email.
- 1.9 A more detailed description of the operation of Floodwise is set out in the following paragraphs.
- 1.10 *System Overview*

Hydrometric data collected on the BoM 'Enviromon' program is extracted and converted into operational information and stored on a database. A web interface (Figure 1) provides this information graphically.

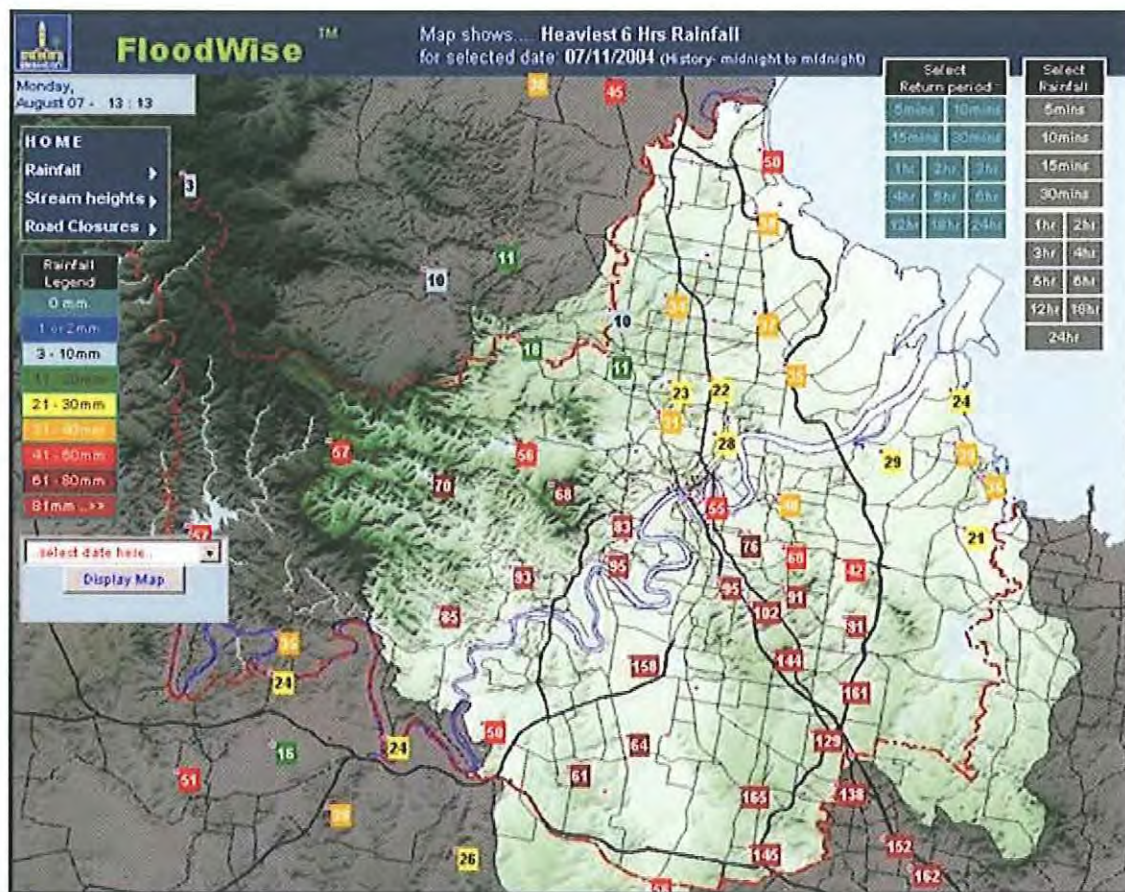


Figure 1: FloodWise Graphical Web Interface

1.11 *Rainfall*

Rainfall gauges are displayed on a map. Floating over the gauge icon with a computer mouse activates a dropdown table showing, among other things, the rainfall return period for various durations. The gauge icon itself can show a variety of selected details. The background colour of the gauge varies depending on the amount of rainfall, making it easy to get a picture of the distribution of heavy rain. Double clicking the gauge icon shows the hyetograph over the last 24 hours.

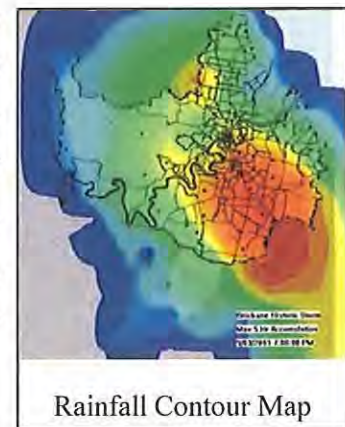


Figure 2:
Rainfall Contour Map

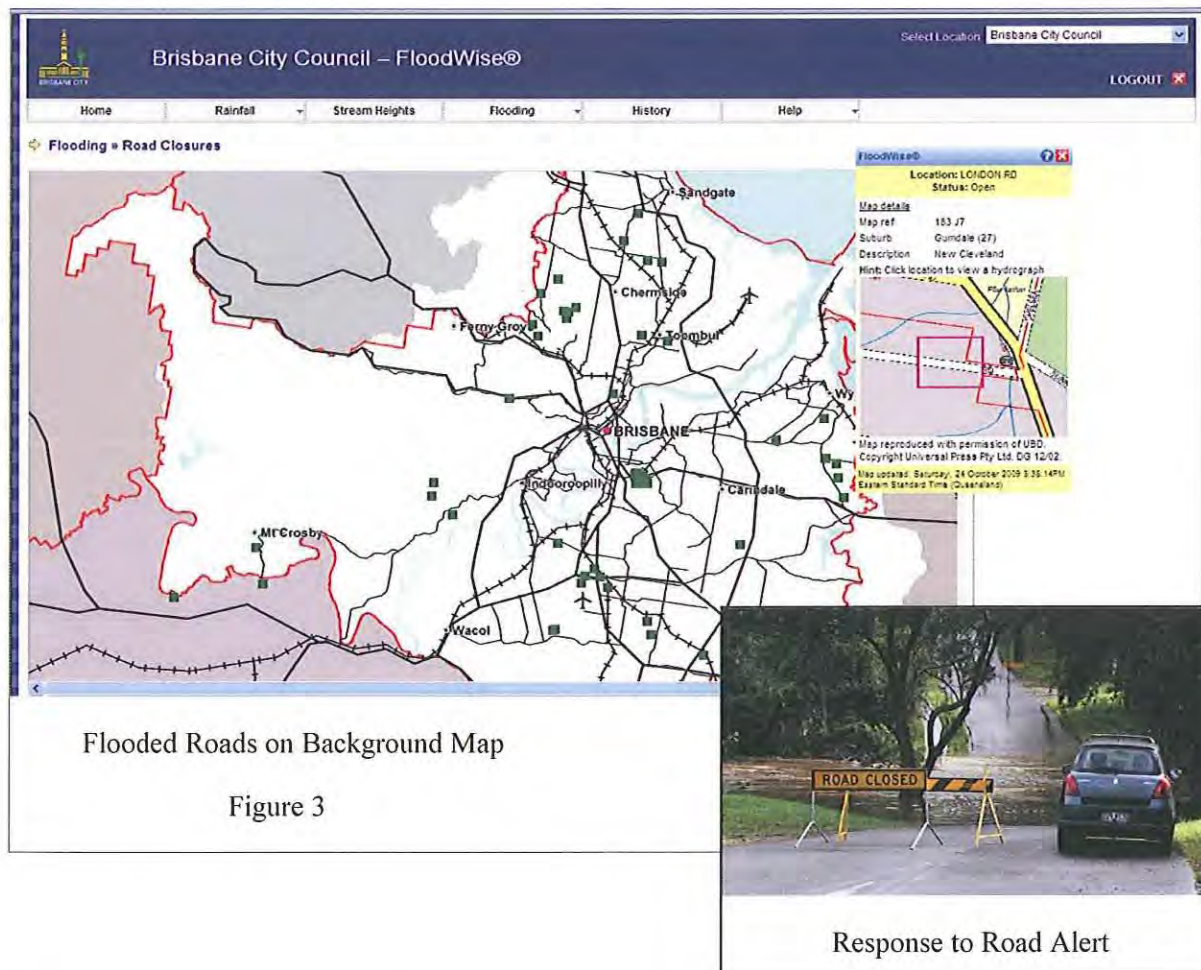
Full colour rainfall contour maps (Figure 2) are also available. They are coloured such that an area reddens as the threat of flood increases: the deeper the red the worse the problem.

1.12 Stream Height

Stream height gauges, indicating water level, are displayed on a similar map. The background colour of the gauge relates to the 'minor', 'moderate', 'major' levels used in BoM warnings. Double clicking the gauge icon produces a stage hydrograph that can also show the level of a nearby significant structure (eg. spillway or bridge deck).

1.13 *Flooded Roads*

Many of the trigger points in Floodwise are for roads. Symbols on a map show the location of roads being monitored. These roads are associated with telemetered stream gauges. Symbols are colour-coded (black – gauge not functioning, green – road open, yellow – road will flood in next 30 minutes, and red – road flooded). Floating over the symbol with a computer mouse produces an inset 'street directory-style' map showing the location of the crossing and surrounding roads. Double clicking the symbol produces the gauge hydrograph together with a horizontal line representing the transposed road level. An example is shown in Figure 3.



1.14 Critical Infrastructure

Some trigger points are for critical infrastructure. These are dealt with in a similar manner to trigger points for roads. Critical infrastructure trigger points can be entered in a manner which includes a privacy tag to limit its view to selected users.

1.15 Flooded Areas

Some trigger points relate to specific areas, usually located adjacent to a creek. These areas are usually fairly flat. The relationship between these trigger points and the adjacent creek is set up in Floodwise by the loading of various maps for that area showing inundation based on various stream heights. These maps are developed over time from observation of flood events in the specific area. Area information is specific. Floodwise does not generate inundation maps for the whole of each creek catchment (in the way the Bender can for a Brisbane River flood). Information about areas is provided in a similar manner to information about flooded roads except when the symbol is clicked a full screen 'street directory-style' map (Figure 4), shaded to depict the current flood inundation of the area, is displayed.

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The amount of inundation is linked to a level in the associated gauge. Users can move the flood icon up or down to see changes to the inundation area with changes in water level in the particular creek.

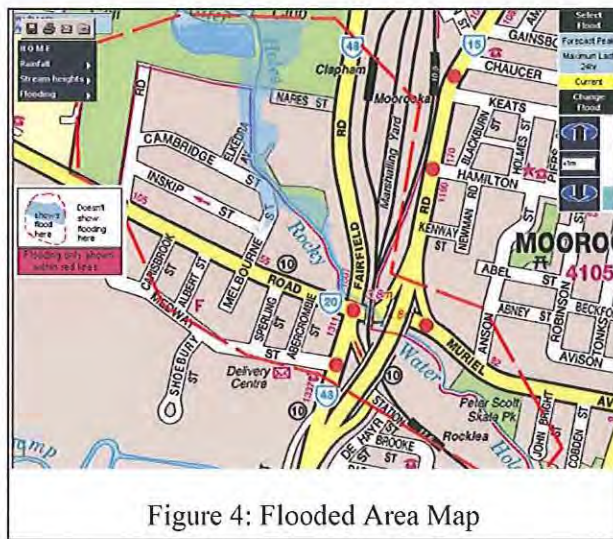


Figure 4: Flooded Area Map



Photograph taken in Cambridge Street

1.16 SMS/ Email Alerts

Alerts can be set up on any of the collected and processed data. Currently there are 240 different alerts. FloodWise automatically sends out approximately 25,000 SMS person messages per year. (One message to six people = six person messages).

1.17 Additional information regarding the way in which the Floodwise system operates can be found in an unpublished paper of K Morris and RL McGlinn prepared in about December 2010, set out in Attachment "KJM-11".

(b) How and when FloodWise is updated and when FloodWise was last updated.

1.18 It is convenient to first note that the FloodWise system was developed as a response to the flash flood event that occurred in Brisbane on 9 March 2001. Following that flash flood, an action plan was developed to improve Council's responsiveness to flash flooding. FloodWise was the result of that action plan. Council envisaged FloodWise being developed through 4 stages. Those 4 stages were as follows:

- (a) 'Stage 1' development in 2002 by the Flood Management group within Council's City Design for internal use;
- (b) 'Stage 2' development of an internet-facing website for a limited set of Council staff and a more limited set of BoM and State Emergency Services staff;

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- (c) 'Stage 3' development in 2009 which saw the Stage 2 internet system extended for use by other SEQ and Tweed local authorities. This is commonly known as 'Floodwise SEQ'. The system remained on Council infrastructure; and
 - (d) 'Stage 4' development. This is a possible future Stage to move from a reliance of Council infrastructure. It would allow more autonomy to external councils, improve redundancy to their system and potentially enable access to FloodWise by the general public as well as other local authorities beyond SEQ.
- 1.19 So far, development of FloodWise has reached Stage 3 in that it has been extended for use by other SEQ local authorities. It has not reached the stage where the computing hardware is available to make it available to the public. However, Floodwise SMS alerts are available to some residents in respect of some creek catchments under the EWAS.
- 1.20 There are two ways in which it is possible to interpret the request for information in paragraph 1(b) of the Notice. If the Commission is asking for information about how the data in Floodwise for rainfall and stream height is kept up to date during rainfall events, the answer to that is as follows:
- (a) Telemetry gauges using the 'ALERT' system send information via radio whenever a predefined change occurs. For rainfall, that is: 1mm of rainfall (some are set at 0.2mm) and for water level that is: every 50mm height change.
 - (b) Telemetry gauges using the 'SCADA' system are polled at fixed intervals: some are 1 minute, some can be hours. For use in Floodwise the period is 5 minutes or less.
 - (c) Every 5 minutes this data is extracted from the collection program and processed.
 - (d) All processes currently associated with Floodwise are automatic.
- 1.21 In the alternative, if the Commission is asking how the information about the relationship between a location and a trigger point at a gauge is updated, the answer to that is as follows. The relationship between a flooded location and specific trigger points is updated when a flood event occurs in a creek or creek area. The flood event provides information from which the relationship between inundation level at the specific location and the flood level of the trigger point at the specific gauge in a specific creek can be checked and calibrated. In the absence of such a calibration event, it is impractical and unnecessary to seek to update the relationship between stream heights and specific trigger points from that which is already contained in Floodwise, because that relationship has already been specified, based on the

information available at the time of loading the trigger point into Floodwise (or as amended from previous calibration events).

- 1.22 The Floodwise system itself has built into it a notification process when recalibration data becomes available (for example, after a flood) to input that data into Floodwise.

(c) Who uses Floodwise and what FloodWise is used for.

- 1.23 There are a number of groups within Council who use FloodWise to improve operations particularly in flash flooding situations resulting from thunderstorms. These groups are City Design, Water Resources, Disaster Management, Compliance & Regulatory Services (CaRS), Disaster Response Group (DRG) and the Call Centre. Vegetation and Pest Services (VPS) also use FloodWise to improve mosquito control.
- 1.24 SEQ councils, mainly their Flood teams, use Floodwise to view gauge data.
- 1.25 Other government agencies such BoM, the Queensland Police Service (QPS), Marine Services Queensland (MSQ), Queensland Urban Utilities (QUU), Queensland Fire & Rescue Service (QFRS), Seqwater, Emergency Management Queensland (EMQ) and Energex sometimes also use Floodwise to view gauge data.
- 1.26 Floodwise is not used by the public generally, except to the limited extent already discussed in the EWAS.

(d) Any general difficulties and limitations in the operation of FloodWise, including in relation to the accuracy of assumptions and data on which FloodWise is based.

- 1.27 Floodwise is a system which records and reports rainfall into potential for local and creek flooding. It also provides:
- (a) general creek flooding information to the effect of whether the flood event is minor, moderate or major; and
 - (b) specific information about when particular trigger points become flooded based on flooding in an adjacent creek.
- 1.28 The data on which Floodwise is based is described above. The input data (rainfall and stream height) is accurate. The data about the relationship between stream heights and particular trigger points and areas requires some assumption. The more calibration events that occur, the more accurate Floodwise becomes. Beyond that, there are not, in my view, general difficulties and limitations with the operation of Floodwise so long as it is understood that Floodwise does

only what it is designed to do. It does not, for example, provide detailed flood level forecasts based on predicted creek levels for all properties in every creek catchment. . Further, I emphasise again that it is not focussed on the effects of a major Brisbane River flood. It will respond to a major river flood only to the extent that flooding in creek catchments occurs as an incident of that flood. There are also some trigger points which are related to the Brisbane River itself, though not many.

1.29 It should be noted that for use outside the Brisbane City local government area, the Floodwise situation report will include information on the severity of creek or river flooding only if the relevant local authority has set the level at a height gauge to represent minor, moderate or major flooding. Further, Floodwise only provides detailed information on specific trigger points outside Brisbane City if the particular local authority defines the trigger points for its area (roads, areas or critical infrastructure) and defines a relationship between that location and a specific gauge. It should not be underestimated how much effort is required to develop a highly responsive FloodWise system for a local government area, particularly in respect of the identification of stream heights, relevant inundation points and the relationships between them.

1.30 Council is continuing to review the robustness of Floodwise, particularly in light of my impending retirement. Copies of reports prepared following two recent reviews are Attachments "KJM-12" and "KJM-13", respectively. These reports only represent the view of Council's Information Services Branch. The broader review of the Floodwise system which is currently underway will seek to incorporate the views of all relevant stakeholders in order to best determine how Floodwise will be developed and operated in the future.

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| (e) | Any specific difficulties or limitations in the operation of Floodwise between 9 January 2011 and 13 January 2011, including in relation to the accuracy of assumptions and data on which Floodwise is based. |
|-----|--|

1.31 Floodwise operated normally throughout this period, issuing warnings based on triggers contained in the system in the way in which it was designed to do. I reiterate, however, that Floodwise is not designed to respond to major river flooding.

| | |
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| (f) | General |
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1.32 In the Notice, the Commission invites me to address other topics if I wish. I think it important to point out, in respect of Floodwise, that making the system and the information it provides available to the public is a desirable objective. One aspect of reaching that objective which has to be dealt with is the requirements for hardware and systems capable of dealing with the intense use of Floodwise which is likely to occur in a flooding event.


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1.33 For the information in Floodwise to be used effectively as a tool for enabling the public to prepare for and respond to flood events, it would also be necessary for residents in a particular area to understand how the system works and what its output means for each of them personally in a flash flood event. In that regard, Council has already had some initial contacts with members of the community in the area of the community of Parthenia Street adjacent to Zillman Waterholes Creek. Those interactions have reinforced my view that effective use of Floodwise information requires considerable education of members of the community. Not only do members of the public need to be educated as to how to use the Floodwise information, they also need to develop their own flood action plan based on a mature understanding of the Floodwise output.

1.34 Having said that, I am aware that the Floodwise alerts are already available to members of the general public for certain creek catchments under the EWAS. This information will be of assistance to the recipients, but it remains the case that education about that information is important.

2. Floodwise Property Report

(a) The relationship between Floodwise and Floodwise Property Report.


2.1 There is no current direct relationship between the Floodwise system and the FloodWise Property Report (FWPR). Neither provides input into the other. The Floodwise system deals with real-time information, while the FWPR deals with design flood level information on a property scale.

(b) An explanation of how the FloodWise Property Report operates, including an explanation of 'Defined Flood' and the method of calculating flood levels.

2.2 The FWPR provides, potentially, four kinds of information for a specified property. This is information about:

- (a) river flooding;
- (b) creek flooding;
- (c) overland flow flooding and/or;
- (d) tidal surge flooding.

2.3 The method of calculating flood levels for each of those kinds of flooding is as follows. For river flooding, Council begins with the level in the River for the Defined Flood Event and then determines what the Defined Flood Level would be for the particular property in a Defined Flood Event.



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- 2.4 For creek flooding, Council adopts a Q100 profile for flooding in each creek and uses a spreadsheet system to determine what the Q100 flood level for that creek will be for a property which could potentially be affected by a flood in that creek. If no flood studies are available for the watercourse, the flood level is calculated by reference to the highest recorded flood level in the watercourse
- 2.5 For overland flow, some years ago, Council undertook a process using GIS techniques to locate each land depression that would accumulate into an overland flow path in the Brisbane local government area. Each property affected by such modelled flows was flagged as potentially so affected. Information about overland flow for a property is derived from that process.
- 2.6 Information about tidal surge was based on a University of Queensland study in the 1980's which used statistics to determine the level of a 1 in 100 year surge event. That level is used to calculate the properties affected by tidal surge.
- 2.7 From the perspective of the FWPR and its operation, 'Defined Flood' is the modelled flood for a defined flood event which dictates the flood level relevant to approval processes for a particular property.
- 2.8 An example of the FWPR is set out in Attachment "KJM-14". The FWPR is provided by accessing an internet site. Attachment "KJM-14A" is a print out of the current page which provides for that. Attachment "KJM-14B" outlines information in relation to the Flood Flag Map. That page refers to The Flood Flag Map User Guide which is located at Attachment "KJM-14C".

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| <p>(c) How and when Floodwise Property Report is updated and when Floodwise Property Report was last updated.</p> |
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- 2.9 FWPR is updated when new information becomes available. The last significant update of the flood level data in the FWPR occurred following the completion of the flood studies for Nundah and Toowong Creeks in 2005 and 2006.
- 2.10 In 2010, the ground level data in the FWPR was updated to take account of the 2009 city wide airborne laser scanning (ALS) ground level survey. The FWPR template was also redesigned in 2010 to include the addition of a graphic display of information. This was launched in November 2010.


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(d) Limitations of FloodWise Property Report, including with regard to information for flooding from waterway tributaries and localised overland flow or stormwater runoff and with regard to flooding from multiple sources.

- 2.11 The limitations of the FWPR for a particular property are a necessary reflection of the fact that they are not based on perfect information. Flood levels are determined from the information available to Council at the date of issue. Flood levels for a particular property may change if more detailed information becomes available.
- 2.12 The better and more detailed flood study available for a particular waterway tributary, the more accurate the information is likely to be.
- 2.13 The possibility of flooding from an overland flow path, generated by computer modelling, is provided as a 'flag' on the FWPR. This alerts residents to the potential for overland flow flooding occurring on their property for an approximately 50 year ARI event, as shown on the Flood Flag Map. The overland flow flag is an indication of flood extent only. Level and depth information is not calculated.
- 2.14 Storm water runoff, to the extent it is significant, will be catered for as an overland flow. Storm water runoff which is not of sufficient magnitude to be identified as overland flow is not dealt with in the FWPR.
- 2.15 The FWPR is based on information about flooding from all possible sources. The highest flood level and source is provided in the FWPR and is used as the basis for determining the minimum habitable floor level. Other sources of flooding where they exist are also referred to in the FWPR.
- 2.16 No data in the FWPR is "live" data.

(e) Any specific difficulties or limitations in the operation of the FloodWise Property Report between 9 January 2011 and 13 January 2011, including in relation to the accuracy of assumptions and data on which FloodWise Property Report is based.

- 2.17 There were some difficulties with Council's website being unavailable for a period of time due to heavy public usage during the event. This is discussed in Council's Initial Submission.
- 2.18 I understand that during the January flood event some residents went to the FWPR site expecting to find live information about flooding or predicted flooding on their property for the particular event then occurring. The FWPR system is based on design events and does not presently give that kind of information. This information was available to residents through


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other sources such as, for example, Council's Call Centre, though there are limitations on the use of the Bender model in a fast-changing flood event as I describe further below.

3. **The "Bender" model**

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| (a) How the "Bender" model operates, including how it estimates the number of properties that will be flooded and assumptions and data on which the model is based. |
|--|

3.1 During a flood event, BoM provides to Council flood levels at 6 established points in the River. The established points are Savages Crossing, Mt Crosby, Moggill, Jindalee, Brisbane City and the River mouth. The Bender model is designed to provide information about the level of the River between those points so as to provide a foundation for identifying the effect of a particular flood on individual properties in Brisbane City.

3.2 The Bender can be used to:

- (a) predict flood levels, in which case it makes use of BoM predictions for the Brisbane River at the 6 points;
- (b) identify the actual impact of a flood which has occurred, in which case it makes use of actual measured flood levels at the 6 points; and
- (c) identify the likely pattern for a flood which is receding, in which case it uses BoM forecast levels for the decreases in the flood (this kind of output is useful for planning a recovery process, as occurred in the January flood event itself).

3.3 The first thing to understand when explaining the Bender is that during a flood event, the River is not an even height and its levels from upstream to downstream are not joined by a straight line. Rather, the hydraulic and other conditions of the River mean that its height varies irregularly both downstream and across the River (the River is usually higher on the outside of a bend as compared to the insider of the bend).

3.4 Modelling or calculating the impact of particular River levels for particular properties therefore requires the:

- (a) identification of the River's profile both downstream and across-stream for various flood events;
- (b) adaption of that profile to the 6 points provided by BoM; and
- (c) projection of those levels to surrounding properties.


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- 3.5 In most basic terms, this is what the Bender does (although it has other functions and outputs as well).
- 3.6 To develop a profile of the River in flood, the Bender begins with pre-determined River profiles at different flood flows derived from the 'Mike 11' Brisbane River Flood Model. The Mike 11 model contains profiles for the River for a number of flows up to, relevantly, 10,000 cumecs. The Bender then takes the nearest relevant Mike 11 modelled profile for the River for the flow and height specified by BoM and adjusts ('bends') that profile to the river heights specified by BoM at the 6 gauges so as to identify the levels of the River down its length and across the stream for that forecast height. It then uses that profile to determine the flood profile within each 'flood cell'. Each flood cell has been predetermined to represent a 0.1m step in the height of the River along the length of the River.
- 3.7 The highest and lowest points for each individual property located partially or fully within the bounds of the predetermined flood cells and other relevant data is extracted from Council's 'CoreLand' system at the beginning of each wet season. That data include fire codes that enable residential and non-residential properties to be distinguished. The CoreLand data might change a little in the course of each wet season, but the judgment has been made that this minor inaccuracy is acceptable in the interests of having the Bender model operate independently of the network. Using this information, combined with the flood cell information, each property within each flood cell can be allocated a flood depth derived from the flood levels provided by BoM.
- 3.8 Each Bender run can be used in the following ways.
- 3.9 First, the Bender can provide a situation report. The situation report provides summaries of information about suburbs, infrastructure and roads which are predicted to be flooded or partially flooded at particular BoM flood levels. It also provides a count of flooded properties and partially flooded properties. A property is reported as flooded if the Bender predicts that the whole of the property will have water over it, and as partially flooded if the Bender predicts that it will only have part of property with water over it. The situation report also specifies the number of people likely to be affected using Bureau of Statistics persons per property per suburb information which is loaded each time a census is taken. The situation reports were provided to the LDCC during the January 2011 flood event to assist it to manage the event. An example of the Bender situation report is at Attachment "KJM-15", which is the Bender run based on a predicted peak of 4.6m at the City gauge. (BCC.053.0531)


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- 3.10 Second, the output of the run can be loaded in the Brisbane River Flood Forecast System and accessed by the Council Call Centre to provide information to individual residents. This occurred during the January 2011 flood event. This allowed residents, by telephoning the Council Call Centre, to access the output of each Bender model run. If a resident telephoned the Call Centre and specified an address, the Call Centre officer was able to access the data from the most recent bender run and inform the resident as to the predicted flood level for their property, based on the then current BoM predicted levels. Each time BoM provided revised flood levels for the River, the Bender model was re-run. At the completion of the run, the results were transferred to the Brisbane River Flood Forecast System to be accessed by the Call Centre. This reliance on BoM predictions is an important factor in the practical application of the Bender in flood events. The caller is advised of the predicted depth at the lowest and highest point of their property and when that inundation is forecast to occur.
- 3.11 Third, the output of a Bender run can be loaded onto a map of Brisbane City to graphically show areas of inundation for those particular flood levels. I am aware that occurred on a number of occasions during the January flood event.
- 3.12 Fourth, once a Bender model was run it could (if required) also be interrogated to provide an estimate of the financial value of the damage that would be suffered for that flood level. That information was derived from the damage curves derived from Brisbane Valley Flood Damage Minimisation Study in 2007.
- 3.13 Fifth, in addition to identifying the number of properties flooded or partially flooded, the Bender can also identify infrastructure and roads predicted to be flooded or partially flooded. The Bender is loaded with information about the levels of road segments and infrastructure taken from the Council's GIS system that have also been tagged with levels and cell in the same way as real property.
- 3.14 As to assumptions that underpin the Bender model, the primary assumption is that the modelled river profiles taken from the Mike 11 model are reasonable representations of the profiles of the River during the currently occurring flood. Further, when predicting flood levels, the Bender depends entirely on the accuracy of BoM predictions for flood levels at the 6 river gauges. In this particular flood event, those predictions changed quickly as conditions changed over the period between Monday morning and Tuesday afternoon.


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(b) How and when the "Bender" model is updated and when the "Bender" model was last updated.

- 3.15 A fundamental input to the Bender model is the river flood profiles derived from the Mike 11 model. The Mike 11 model reached its current form in about 2004 as part of the process of developing and refining a flood model for the Brisbane River which was undertaken over the period 1998 to 2004. To update the Bender model with new flood profiles would require the completion of a new flood study for the river. A comprehensive flood study for a river like the Brisbane River is a very large and expensive undertaking. So far as I am aware, plans for a new flood study are currently being made.
- 3.16 The property data to which the flood cell information is applied is updated regularly. It is extracted at the beginning of each wet season. Most recently, that data was loaded in October 2010. As I have explained, there can be changes to that data over the summer but it will be correct in nearly every case and the advantage of down loading the property data at a point in time is to make the Bender model separate from Council's computer network so that it is able to run even if power or function is lost for the Council network during a flood event.
- 3.17 The data on damage value is derived from the damage curve in the Brisbane Valley Flood Damage Minimisation Study in 2007. That Study has not been reviewed and therefore that data has not been updated since 2007.

(c) Any general difficulties or limitations in the operation of the "Bender" model.

- 3.18 The modelling provided by the Bender operates effectively only up to a flood of 10,000 cumecs. In the absence of the Bender, the modelling of flooding impacts must be undertaken by reference to specific pre-prepared inundation maps (**pre-cooked maps**). During the flood event, at one stage the FIC was asked to provide inundation mapping for a flood peaking at 12000 cumecs. The FIC was able to provide a pre-cooked map for that peak flow.
- 3.19 I refer to some further matters in the next section.

(d) Any specific difficulties or limitations in the operation of the "Bender" model between 9 January 2011 and 13 January 2011.

- 3.20 I am not aware of any specific difficulties or limitations in the operation of the Bender during the January 2011 flood event as such (apart from the matter dealt with in the previous paragraph), although some minor changes were made that improved the Bender's functionality in the course of the event to speed up the input process and allow the reporting of residential and commercial properties separately.


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- 3.21 There are, however, some matters which might be regarded as 'limitations' in the way the Bender information can be accessed and deployed in the course of a flood event generally and the January flood event in particular.
- 3.22 I am aware that some residents have expressed the view that they would have liked information about how high the flood would reach on their individual properties, and when, in advance of the flood peak. I can well understand the desire to have that information. I wish to comment on some practical issues in that regard.
- 3.23 First, that information can only be provided by the output from a Bender run. The information from relevant Bender runs was available to residents who telephoned the Council Call Centre (provided with access to the Brisbane River Flood Forecast System which contained the results of relevant Bender runs).
- 3.24 Second, the information provided by a Bender run is only as reliable as the BoM forecast of the River levels at the 6 gauges and can only be produced when such forecasts are provided. In the case of the January flood event, the predicted peak level at the City Gauge went from 2.3m (which was the predicted flood level for 2:00pm on 11 January 2011 and was issued before 8:00am 10 January 2011) to 5.5m (which was the predicted peak for 3:00am on 13 January 2011, issued at midnight on 11 January 2011 and confirmed at 8:45am on 12 January 2011). Further, the actual peak was only 4.46 m at 4:00am on Thursday 13 January.
- 3.25 It is obvious that significant changes in the predicted levels led to significant changes in the Bender information for properties over the space of 48 hours. No criticism of the BoM is intended in this regard: it is simply the effect of the extraordinary rainfall events over that time period and their consequences for the operation of Wivenhoe Dam. It is worth being aware, however, that information or warnings provided on Tuesday morning were already overtaken by events on Tuesday evening.
- 3.26 Third, I have already mentioned that the accuracy of Bender runs depends on the accuracy of the "adjusted" profiles taken from the Mike 11 model. This in turn depends on the continued accuracy of the Mike 11 model profiles and the bending process itself. While I consider that the Bender provides a good guide as to likely flood levels at individual properties, it necessarily has a margin for error of the order of approximately 0.5m. Residents relying on Bender predictions would need to keep that in mind in making plans based on Bender output.
- 3.27 Fourth, I am aware that an issue for residents in developing flood responses is the question of when vehicle and foot access is likely to be lost for their property. The Bender does not provide this kind of information, much less such information tailored to each property.

4. Council's Flood Information Centre

(a) **The operation of the Flood Information Centre between 6am, 10 January 2011 and 6am, 13 January 2011, including details of when Mr Morris was present at the Flood Information Centre, who were the Controllers at the Centre and at what times.**

4.1 The operation of the Flood Information Centre (FIC) is set out in paragraphs 14-18 of my first Statement.

4.2 I was at the LDCC from about 9.00 pm on 9 January 2011 till approximately 7.30 am on 10 January 2010. I stood up the FIC at this time and remained at the FIC until about 1.00 pm on 10 January 2010. On each of 11 January, 12 January and 13 January 2010, I started at about 7.30 am at the LDCC and worked there until about midday, when I commenced at the FIC and worked there finishing at approximately 8.00 pm on each of the days.

4.3 The FIC Controllers were rostered as follows:

- (a) Santina Pennisi - 7.00 am to 5.00 pm on 10-13 January 2010;
- (b) Evan Caswell - 4.00 pm to 1.00 am on 10-13 January 2010; and
- (c) James Charalambous - 12.00 am to 7.00 am on 10-13 January 2010.

(b) **What information was received from the Bureau of Meteorology by Mr Morris as Director of the Flood Information Centre or by the Controllers under his supervision between 6am, 10 January 2010 and 6am, 13 January 2010.**

4.4 At various times, FIC Controllers received, first by conference telephone calls and then followed by BoM Alert emails, the modelled forecast River heights and modelled forecast times along the lower Brisbane River at the following locations: Lowood, Savages, Mt Crosby, Ipswich, Moggill, Jindalee and Brisbane City. When considered, forecast rainfall would also be included. The modelled data and forecast rainfall assumptions were also made available on BoM registered user website.

4.5 "KJM-16" is a chronological bundle of documents containing information received from the BoM for the period 5.00am 10 January 2011 to 3.55am 13 January 2011.

(c) **A general description of the kinds of information provided by the Flood Information Centre to other persons or agencies between 6am, 10 January 2010 and 6am, 13 January 2010.**

4.6 The FIC provided the following information to the LDCC, and when requested Council's CEO, LMO Media team, and CEO support officers:

- (a) FIC Situation Reports;


Kenneth John Morris


Witness

- (b) FIC Recovery Reports;
- (c) Peak flood envelope maps using Bender output (soft and hard copy);
- (d) Recovery flood envelope maps using Bender output;
- (e) Flooded property counts for various scenarios;
- (f) Pre-prepared flood maps from the Brisbane River Hydraulic Model to the PMF study; and
- (g) Brisbane River Flood Forecast Reporting System database updates.

4.7 The modes of information transfer were:

- (a) email;
- (b) shared network directories; and
- (c) hardcopy map products.

4.8 The FIC provided verbal reports to the LDMG. The FIC verbal reports were provided by the FIC controller. The FIC Director would also attend the LDMG when possible.

I make this statement conscientiously believing the same to be true, and by virtue of the provisions of the Oaths Act 1867 (Qld).

Dated 3 May 2011

Signed and declared by Kenneth John Morris at
Brisbane in the State of Queensland
this 3rd day of May 2011
Before me:

Signature of person before whom the declaration is made

TARRYN JANE BRONN, SOLICITOR
Full name and qualification of person before whom the
declaration is made

Signature of declarant

"KJM-10"

Queensland Floods Commission of Inquiry

Our ref: Doc 1587093

21 April 2011

Mr Ken Morris
 Director, Flood Information Centre
 Brisbane City Council
 GPO Box 1434
 BRISBANE QLD 4001

REQUIREMENT TO PROVIDE STATEMENT TO COMMISSION OF INQUIRY

I, Justice Catherine E Holmes, Commissioner of Inquiry, pursuant to section 5(1)(d) of the *Commissions of Inquiry Act 1950* (Qld), require Mr Kenneth Morris to provide a written statement, under oath or affirmation, to the Queensland Floods Commission of Inquiry, in which the said Mr Morris:

- provides all information in his possession and identifies the source or sources of that information;
- makes commentary and provides opinions he is qualified to give as to the appropriateness of particular actions or decisions and the basis of that commentary or opinion;

in respect of the following topics:

1. FloodWise

- a) An explanation of how FloodWise operates, including where data is collected from and how that data is processed and presented.
- b) How and when FloodWise is updated and when FloodWise was last updated.
- c) Who uses FloodWise and what FloodWise is used for.
- d) Any general difficulties and limitations in the operation of FloodWise, including in relation to the accuracy of assumptions and data on which FloodWise is based.
- e) Any specific difficulties or limitations in the operation of FloodWise between 9 January 2011 and 13 January 2011, including in relation to the accuracy of assumptions and data on which FloodWise is based.

2. FloodWise Property Report

- a) The relationship between FloodWise and FloodWise Property Report.
- b) An explanation of how the FloodWise Property Report operates, including an explanation of 'Defined Flood' and the method of calculating flood levels.
- c) How and when FloodWise Property Report is updated and when FloodWise Property Report was last updated.

- d) Limitations of FloodWise Property Report, including with regard to information for flooding from waterway tributaries and localised overland flow or stormwater runoff and with regard to flooding from multiple sources.
- e) Any specific difficulties or limitations in the operation of FloodWise Property Report between 9 January 2011 and 13 January 2011, including in relation to the accuracy of assumptions and data on which FloodWise Property Report is based.

3. The "Bender" model

- a) How the "Bender" model operates, including how it estimates the number of properties that will be flooded or partially flooded and assumptions and data on which the model is based.
- b) How and when the "Bender" model is updated and when the "Bender" model was last updated.
- c) Any general difficulties or limitations in the operation of the "Bender" model.
- d) Any specific difficulties or limitations in the operation of the "Bender" model between 9 January 2011 and 13 January 2011.

4. Council's Flood Information Centre

- a) The operation of the Flood Information Centre between 6am, 10 January 2011 and 6am, 13 January 2011, including details of when Mr Morris was present at Flood Information the Centre, who were the Controllers at the Centre and at what times.
- b) What information was received from the Bureau of Meterology by Mr Morris as Director of the Flood Information Centre or by the Controllers under his supervision between 6am, 10 January 2011 and 6am, 13 January 2011.
- c) A general description of the kind of information provided by the Flood Information Centre to other persons or agencies between 6am, 10 January 2011 and 6am, 13 January 2011.

Mr Morris may also address other topics relevant to the Terms of Reference of the Commission in the statement, if he wishes.

The statement is to be provided to the Queensland Floods Commission of Inquiry by 5pm, Tuesday, 3 May 2011.

The statement can be provided by post, email or by arranging delivery to the Commission by emailing info@floodcommission.qld.gov.au.


Commissioner
Justice C E Holmes

"KJM-11"

FloodWise: Developing Council's Resilience to Flash Flooding

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AUSTRALIA

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Abstract:

South-East Queensland councils now have the ability to improve their resilience to flash flooding through FloodWise. This interface provides simple meaningful information, allowing users to respond to events and minimise impacts. Automatic SMS and emails react to a variety of pre-defined triggers alerting managers and operational staff to impending events.

Regarding flash flooding, FloodWise has allowed a more efficient use of Council's workforce and provides management with the information it needs to appropriately respond to the event.

Brisbane City Council has developed relationships between its telemetry network and known flooded roads and communities. Following flood events new triggers can be added which then become part of the monitored system. This allows a continuous improvement capability to FloodWise and thus to the Council utilising those features.

FloodWise can improve the resilience of a Council and its community to flash flooding and also prepare them for the predicted effects of climate change (more flash flooding).

Keywords: Flash flooding, FloodWise, Community Resilience, Real-time Telemetry, Alerts.

1. INTRODUCTION

On the afternoon of 9th March 2001, a flash flood occurred in Brisbane that caught both the community and Brisbane City Council (BCC) off guard. The intense storm lasted only three hours but many creeks rose up to four metres in 1.5 hours. Roads were cut and peak hour traffic chaos ensued. Radar images showed little movement, making it impossible to predict how long the storm would last. Constructing a situation report was also impossible as any report was out of date before it was finished. It was following the storm, when reports of house flooding came in, that the full extent of the event was realised. This flash flooding affected all low lying communities bordering these creeks. Virtually every year thunderstorm activity causes flash flooding over some part of Brisbane. These events range from nuisance to severe dependent on the size and speed of the storm cell and the wetness of the ground surface.

External to BCC, reports have been developed indicating that, due to global warming, storms will become more violent. The reports also hint that for Brisbane at least, flash floods could increase while general rainfall (yearly totals) declines. FloodWise was developed to improve BCC's responsiveness to flash flooding assisting its communities to mitigate the effect of these natural disasters.

Over thirty creeks pass through the city, with a combined length of around 240 kilometres. These creeks can flood within one to ten hours following heavy rainfall (depending on the catchment size). BCC currently has 40 water level telemetry gauges and 60 telemetry rainfall gauges. The network was initially installed to assist calibration of computer models used in flood studies, which set development control levels and recommend flood corridor requirements. This network is now providing additional benefits. It is now also used in an operational sense, providing real time information to disaster managers through the internet and SMS/ Email targeted warning systems. The latter is also sent to the community.

2. FLOODWISE OVERVIEW

Many Councils have developed flood studies for their creeks and river systems in order to put in place flood mitigation schemes and planning controls to reduce their ever burgeoning flood damage bill and community disruption. This has been a requirement in some states through acts of parliament or policy statements for planning and emergency management authorities to be better prepared both in understanding flood threat and dealing with disasters (which include flood). All the work and studies have not removed the flooding risk. Communities who live in low lying areas that were developed prior to this increased understanding are still subject to flooding.

Brisbane has significant flooding from a variety of sources: River, Creek, Overland flow and Storm Surge. The Bureau of Meteorology (BOM) provides timely warning on river flooding and storm surge. The specifics of creek flooding and overland flow were not addressed. Small creeks can rise 2 to 6 meters within one to ten hours of heavy rain with a flood occurring without warning. These flash flooding events happen much more often than river flooding or storm surge.

The Bureau of Meteorology provides thunderstorm warnings and although extremely useful in providing a "heads up" that a flash flooding event is likely it does not contain specifics on the location and severity of the event.

Brisbane City Council has met this challenge in a unique way through FloodWise. The system was deployed in 2003 and was tested soon after by another severe event in 2004. FloodWise does contain information on location and the start of severe consequence of an event.

2.1. FloodWise Information

Raw gauge data of rainfall and water levels collected from the real time telemeter system via propriety data collection programs are collected by FloodWise and converted into real time information suitable to provide a variety of users with the tools needed to respond. These conversions happen every five minutes, 24 hours a day. All aspects of FloodWise occur automatically.

2.1.1. Rainfall information

The time series data of rainfall is converted to rainfall information in three ways and all three are colour coded and displayed on web pages. Double clicking the gauge shows the hyetograph over the last 24 hours.

Firstly, the rainfall is accumulated in depths in selected time periods going backward from the current time. Rainfall in the last 5 minutes, 10 minutes, 30 minutes, 1, 6, 12 and 24 hours provide information of the currency of the rainfall. Users can quickly see how long ago the heavy rainfall occurred. It is, however, of limited use in determining the severity of the event.

Secondly, the rainfall over the last 24 hours is analysed to provide the highest average intensity for various durations including 5/10/30 minutes and 1/2/3/4/5/6/12/24 hours. These values are also compared to the Australian Rainfall and Runoff's Intensity Frequency Duration curves to determine the rainfall return period for each of those durations. When compared to the time of concentration of a catchment this information determines the likely severity of the event from a rainfall point of view.

Finally this intensity data can be plotted as a colour contour map to provide information on the location and aerial extent where the most severe rainfall has occurred.

2.1.2. Water Level Information

Stream height gauges, indicating water level, are displayed on a map. The background colour of the gauge icon relates to the minor, moderate, major levels used in BoM warnings. Double clicking the gauge produces a stage hydrograph that can also show the level of a nearby significant structure (eg. Spillway level or bridge deck level).

2.1.3. Water Level based Flood Information

Relationships can be developed to provide information about the consequences of an event. These consequences are divided into three groups that are subject to flooding: Roads, Infrastructure and Communities. Each of these groups are displayed on web pages and colour coded as:

- Dark Blue -indicates that no telemetry signal from the related gauge has been received;
- Green -indicates that the Item is not flooded;
- Yellow -indicates that the Item is likely to flood in the next 30 minutes; and
- Red -indicates that the Item is currently flooded.

The asset, be it a road location, piece of infrastructure or a flood liable community, is related to its corresponding gauge level. For roads and infrastructure this is a single point at the gauge at the critical level that the asset starts to flood. In many cases the gauge is not at the asset's location and therefore levels at the gauge only provide rough information of the depth of flooding at the asset. Double clicking the asset produces a stage hydrograph that also shows the critical level of the item.

Flooded Communities have this critical gauge level as well as a relationship that relates depth at the community location related to gauge level. Clicking this asset produces a zoomed in map of the community area with the current level of inundation. Clicking the gauge symbol on this map produces a stage hydrograph that also shows the critical level associated with that Community area.

2.2. FloodWise Warnings and Triggers

A warning can be triggered from any piece of information held in the database tables. There are three parts to the automated warning. Firstly what triggers the warning, secondly what message the warning contains and finally who gets the warning.

This paper concentrates on the first of these namely the trigger for the warning. The database table containing this information is a table of consequences of flooding. It provides a memory of flooding that lasts beyond the tenure of Council staff who hold specific knowledge of floods

2.2.1. Water Level Triggers

Water level triggers that are based on the water level at a gauge are the most accurate. Essentially, when a gauge reaches a trigger level, a warning of the consequence associated with the trigger can be sent. The further away the location of the consequence is from the gauge the less reliable is the warning. This is particularly so if significant tributaries enter the creek between the gauge and the location of the consequence.

2.2.2. Water Level with Rainfall Trigger

Some water level gauges suffer from false readings or data spikes. Though efforts are made to identify these spikes some do get past the filtering system. For those gauges, a rainfall trigger is also used so the warning will only be sent when both the water level trigger and rainfall triggers are exceeded.

2.2.3. Rainfall Triggers

Rainfall triggers provide the earliest warning but are the least reliable. Flooding occurs from rainfall over a catchment and the severity of the resultant flood depends on, among other things, the wetness condition of the catchment prior to the heavy rainfall. Rainfall triggers are based on rainfall at a gauge. If the point rainfall does not represent the catchment rainfall then the consequence will be different and it could be less or worse than that defined for the trigger. When warning times are very short, warnings from these triggers are better than no warnings.

2.2.4. Forecast flooding Triggers

Currently there are no hydrologic models used in FloodWise however internal coding has been written to accept flood modelling results. The current state of modelling needs a high degree of manual intervention to adjust rainfall distribution parameters, routing parameters, initial and continuing rainfall loss parameters to get the model to perform reasonably against the measured data. Modelling would therefore only be successful if it could be guaranteed that there would be a skilled operator always on hand to perform the modelling and the forecast is prepared in a timely manner.

To date FloodWise has concentrated on projecting the stage hydrograph forward in time (half an hour) based solely on the immediately preceding the rate of change at the gauge. This has been found to be a good forecast trigger though sometimes the creek peaks before the projected water level is reached. The uncertainty is reflected in the warning text. For example, the message may read "Smith St at Downfall Creek, Nundah is likely to flood sometime in the next half hour".

2.2.5. Flood Peak Triggers

Peak triggers advise disaster managers and community groups that the event will get no worse. These warnings are unlike the other warnings. All warnings issued by FloodWise are sent only once per day. A flood peak warning is sent when the peak occurs above the trigger level. After this it continues to be monitored and if the flood rises again and passes above the previous peak, FloodWise will issue a message withdrawing the previous peak alert and advise that further rises are occurring. When the new second peak occurs a new advice is then sent.

3. CONSEQUENCES COLLECTION AND CALIBRATION

FloodWise stores consequences related to its information. In the case of flooding the more consequences FloodWise stores the better the Council and Community can respond to minimise the damage caused by the event. So each time an event occurs any new consequences should be added to the system together with a list of specific individuals who need to receive the warning.

3.1. Consequence Overview

On the FloodWise webpage, the 'Flooding' heading contains pages relating to the graphical display of flood information and local infrastructure or communities. At present, FloodWise contains the Flooded Roads and Flooded Areas features and is earmarked to include Flooded Critical Infrastructure in the near future.

The development of these features can generally be broken down into the following steps:

- (i) Collation of a list of specified sites where flood impacts are known;
- (ii) Geo-referencing of these sites into a GIS application (eg. MapInfo);
- (iii) Overlay the location of these sites with the existing telemetry gauge network. Sites that are able to be linked to telemetry gauges are short listed;
- (iv) Collection of any known flood or rainfall information at the short listed sites (eg. Flood studies or investigations, historic levels);
- (v) Development of a relationship between site and gauge using the collected flood or rainfall information. Once a relationship is developed, it can be implemented into FloodWise and an alert created;
- (vi) Calibration of the relationship during a trial period when, in the event of a calibration flood, data are collected and the relationship is further refined. The length of the trial period depends on the frequency and magnitude of relevant calibration events; and
- (vii) Adoption of the relationship, when it is deemed accurate and open to distribution within Council. However, calibration to flood events is ongoing and revised regularly. Relationships can change if there are alterations to the flood regime or the addition of a new hydraulic constraint (eg. a bridge, major channel works). In this instance, the relationship returns to the trial period until a new relationship is refined.

3.2. Flooded Road Closures

The 'Flooded Road Closures' feature stemmed from a list of over 150 streets and roads which were known to be affected by flooding (river, creek, overland flow, tidal or storm surge). This list was based on historic observations of flooding from Council field staff and local asset officers.

The identified flooded roads were cross-referenced with available telemetry gauge locations. All roads that could be related to the existing gauge network were chosen; this provided a list of 50 locations. The remaining locations would be used to help determine if further expansion of the telemetry system would produce valuable information and also help in prioritising the locations of the future gauge.

In order to develop a relationship between the telemetry gauge and a flooded road, several sources of information are used:

- Historic telemetry stream level and rainfall information;
- Collected Maximum Height Gauge information for past flood events;
- Collected debris level information for past flood events; and
- Existing flood investigation and hydraulic modelling results.

Flood information, other than telemetry data, was only collected for large events generally greater than a 20 year Average Return Period (ARI). The critical level for each road location (usually the sag of the road or deck) was found using ground survey or Airborne Laser Scanning (ALS) survey data. This critical level was found to be much less than a 1 in 20 year flood level, more in the order of a 1 in 1 year or a 1 in 2 year flood level. At this lower flow the slope of the flood profile found from the larger floods would only provide a guide to the critical level of the road transposed to the gauge.

For locations where a flooded road is in very close proximity to the telemetry gauge the flood levels at the road can be assumed to be same as at the telemetry gauge. This provided a simple gauge trigger.

In reality, the relationships between the gauge telemetry and flooded location can be very complex. This is due to the multi-dependant nature of the relationships which leads to different 'ranges' of flood levels between the two locations. Figure 1 below shows how the telemetry gauge may show a smaller range of flood levels than the corresponding larger range of flood levels at the flooded location. This range can be influenced by channel geometry, tributary inflows and other hydraulic constraints.

The point-to-point association for 'Flooded Road Closures' simplified this complex relationship. This made creating triggers much easier but additional work is needed to maintain ongoing calibration and verification of the defined relationship.

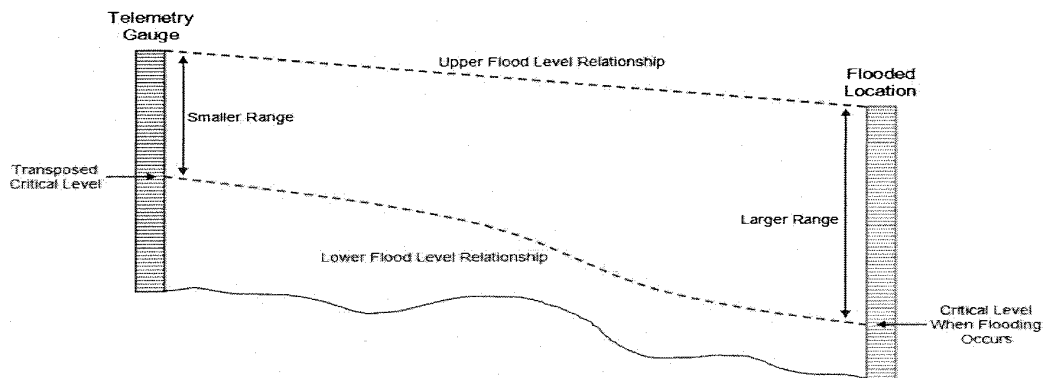


Figure { SEQ Figure * ARABIC }: Diagram Showing Differing Ranges at the Telemetry Gauge and Flooded Location

Once a relationship was established, it was then added to the Flood Damage table of the database where it will be monitored by FloodWise. On the Flooded Road Closures page, each location appears as a coloured box within the map of the Local Authority Area, in this case Brisbane. The colours of the boxes change according to the status of the flooded road with the same theme mentioned in Section 2.1.3 above. Hovering over each of the location boxes brings up a summary of information for that site including description, map reference and map screenshot.

The location box can be used to display the stream hydrograph for the corresponding telemetry gauge for the flooded road location. The hydrographs displayed through the Flooded Road Closures page show the added detail of the transposed critical road level for each relationship. This allows the user to view the difference between the current water level and the critical road level at each location. Figure 2 contains an example hydrograph with critical road level shown.

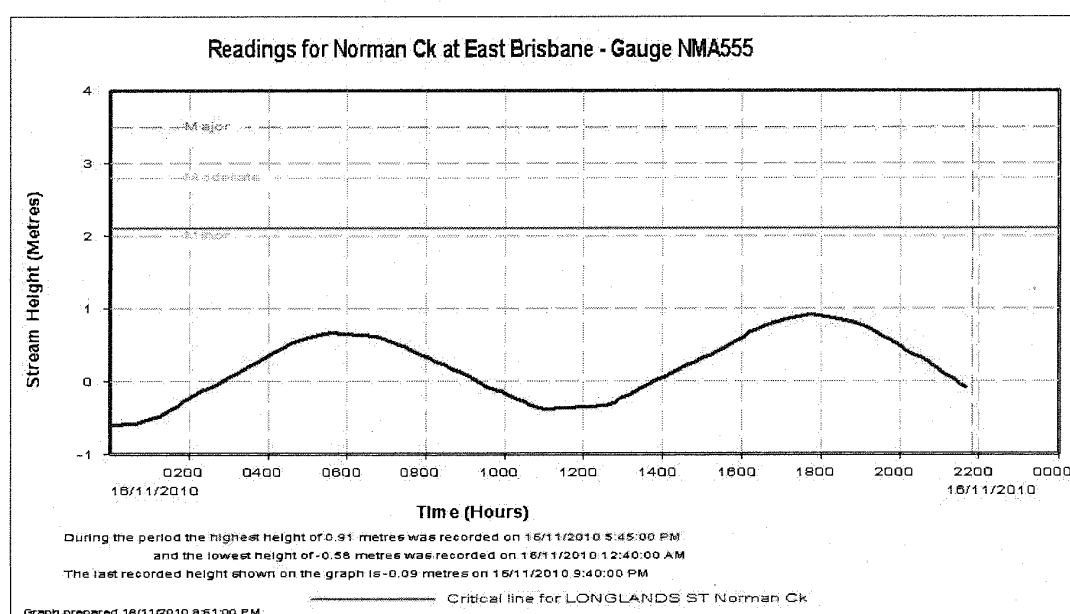


Figure { SEQ Figure * ARABIC }: Hydrograph Showing Critical Road Level Information

Each implemented FloodWise 'Flooded Road Closure' location has been linked to SMS and Email alerts. Alerts are sent to internal officers when roads are likely to flood or have been overtopped. This allows officers to take necessary action to protect the community during an event and following the event visit each site to collect ongoing calibration and verification information.

Recently, a new source of flooded road information has been found in the form of BCC Call Centre records. These records contain approximately 200 instances of road flooding based on complaints from residents during 2008-2010 storm seasons. These sites will be geo-referenced and compared to existing telemetry locations to investigate whether additional Flooded Road relationships may be achievable. Clusters of sites where no telemetry exist may highlight the need for expansion of the telemetry network in that area. This information provides a better cost-benefit approach to selecting additional telemetry sites based on where they are most needed.

3.3. Flooded Areas

Similar to the Flooded Roads feature, the Flooded Areas page stemmed from a list of known flooding problem areas based on residential complaints and historic information. These areas were known to be affected by river, creek, overland flow, tidal or storm surge flooding.

The Flooded Areas follow the same process as the Flooded Road Closures where the identified flooded areas were cross-referenced with available telemetry gauge locations and all areas that could be related to the existing gauge network were chosen. Twenty flooded area locations were found and the remaining sites will be used to assess future gauge requirements.

The same sources of information were used to develop the relationships between the flooded locations and telemetry gauges. For accuracy and practicality, the flooded areas were limited to the size of 1-2 km². If the area is too large, the trigger may not provide an accurate alert timing. The critical level for each flooded area is usually the lowest point susceptible to flooding such as property boundary or road kerb.

A separate relationship was needed for inundation mapping for each area. This relationship required defining the flood level ranges for both the flooded location and telemetry gauge (as shown in Figure 1 above). This complex relationship was needed to accurately estimate the inundation extents for each water level increment at the gauge.

As with the Flooded Roads, each established flooded area location appears as a coloured box on a map of Brisbane. The colours of the boxes change according to the flooding status with the same theme mentioned in Section 2.1.3. Hovering over each of the location boxes brings up a summary of information for that site including description, map reference and map screenshot (as shown in Figure 3).

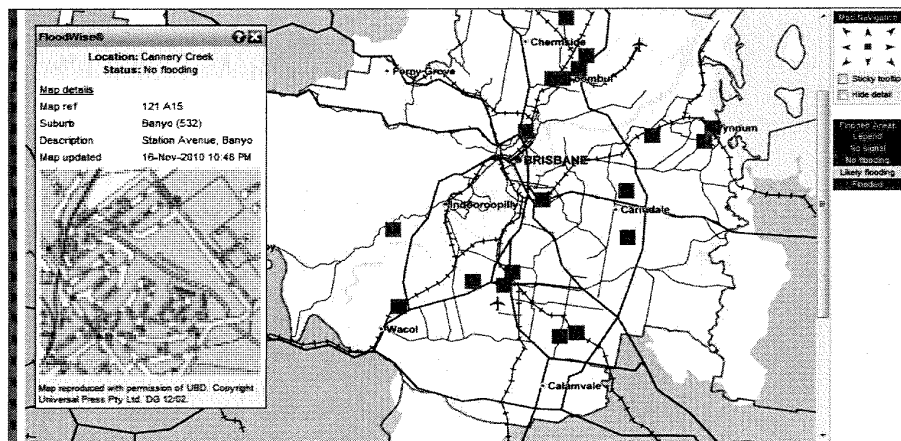


Figure { SEQ Figure * ARABIC }: The FloodWise Flooded Areas Page

Clicking on the location box displays a larger map view with the flooded area outlined with a red line (see Figure 4). This map has the added function of being able to increase the flood level in 0.5m increments, and view the resulting inundation extents. This allows the user to view the current flood extents as well as inundation of alternate (user defined) water level changes.

Three different alerts associated with Flooded Areas are sent to the community via a third party. The third party receive the alerts from FloodWise and on forward them to community members who have registered for the alert.

3.4. Flooded Critical Infrastructure

The development of a list of prioritised critical infrastructure in flood prone areas has commenced using GIS techniques. Critical infrastructure could include hospitals, evacuation centres, fire stations, sewerage pump stations and power substations. The collection will follow the described procedures above.

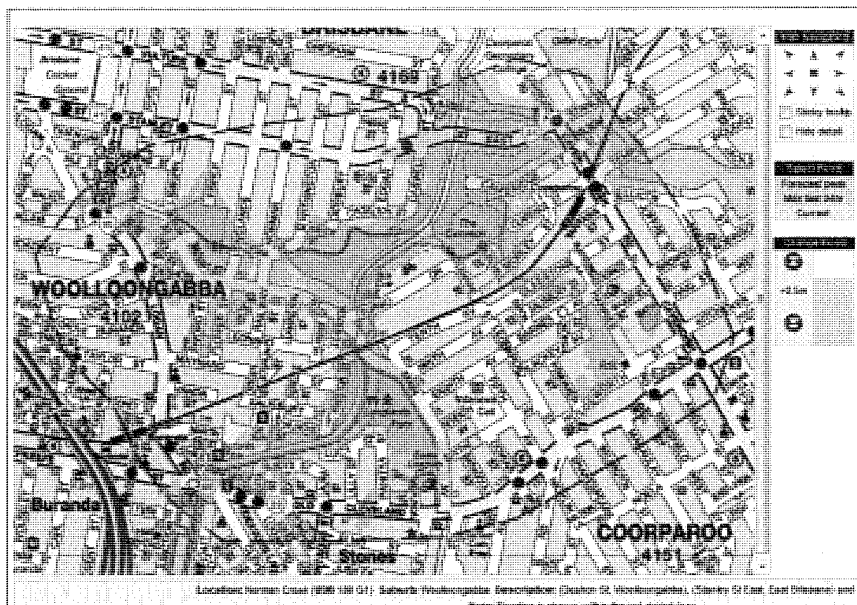


Figure { SEQ Figure 1* ARABIC }: Flooded Area Detailed Map View

As an example, sewer pumping stations are located at low points in the sewer network and many can be inundated and damaged from flash flooding. This can result in:

- Damage to expensive equipment at the pump station;
- Reduced function of the sewerage network;
- Impacts to residential, commercial and industrial properties along the sewerage network; and
- Risk of sewer overflow leading to environmental damage and health and safety concerns.

To mitigate the above elements, a trigger can be established for pumping stations at risk. This would allow alerts to be issued and appropriate action taken which results in a quicker recovery following an event.

4. CONCLUSION

The two FloodWise database tables of Flooding and Warnings provide an effective long term memory of the consequences of flooding.

Constant monitoring of these lists and the automatic issuing of appropriate and timely warning has a significant impact in improving the responsiveness of a Council to the event.

Continuous improvement can be attained through the addition of new event consequence information.

Improved resilience of a Council to flood events results from this increased knowledge and early alerting.

5. REFERENCES

Morris, K. (2010), *Improving Resilience with FloodWise*, 50th Annual Floodplain Management Authorities Conference, 23 –26 February 2010, Gosford.

"KJM-12"

AUDIT-IN-CONFIDENCE

*Dedicated to a better Brisbane*

DRAFT

ASSURANCE SERVICES REPORT

Review of the FloodWise Information System

City Planning and Sustainability Division

1 November 2010

Our Reference: 015-2011

COMPLETED BY:

Noel Sherrington

Principal IS Assurance Specialist

REVIEWED BY:

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| |
|-------------------|
| EXECUTIVE SUMMARY |
|-------------------|

STATE OF CONTROL**Conclusion**

The control environment in relation to the FloodWise Application is **unsatisfactory**.

In 2007, the Water Resources Group and Information Services Branch rated the FloodWise Application as having high business value to the Brisbane City Council. Data from FloodWise is used by other Councils, however funding and resources do not appear to be sufficient to maintain and document the system to a level to match its business value.

System documentation is out of date and incomplete. Two of the internally facing parts of the system (the FloodWise application and a web-based application) are supported by a single staff member. Training of support staff for the FloodWise application is underway but there is still a reliance on a single key team member.

The Flood Management Team has only one full-time person supporting all 100 Council river and rain gauges. Electrical support is contracted on an as needed basis from City Building and Maintenance Services.

The main application runs on local office-based PCs and physical access controls for machines are minimal. City Design is currently replacing the PCs which are several years old.

The main Floodwise application is based on a Microsoft (MS) Access database and the internally facing web-based data display application is written with Active Server Pages (ASP) which is not supported under Council's current ICT Technical Reference Architecture (TRA). The Bureau of Meteorology (BoM) application is fully documented and supported by BoM.

Both of these applications and the data used within them are backed up to a second active PC and a third failover PC within the office. Data for the web-based applications is copied to Oracle databases within Council's data centres.

The externally facing web-based display application is well documented and supported by Information Services Branch (ISB), however there appears to be an issue with the timeliness of that support. Flood Management is in the process of developing a new service agreement with ISB.

The Flood Management Group have initiated a help desk facility for external users, as well as a User Group that meet every six months, funds permitting.

A number of reviews of the FloodWise system were undertaken by ISB (then iDivision) up to 2007. Issues and recommendations arising from these reviews have yet to be fully implemented by the business area and ISB.

Output from this system is currently used by other Councils within South East Queensland who pay for access, and there are plans to allow the public access to this information. Should this occur, a greater level of security, data integrity and availability will be required to meet public expectations.

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| Review Areas (Refer Appendix B) | Effective | Some Improvement Needed | Major Improvement Needed | Unsatisfactory |
|---|-----------|-------------------------------|--------------------------------|----------------|
| Information Security | | X | | |
| Service Agreements with external groups | | | | X |
| System Documentation | | | | X |
| Risk Management | | | | X |
| System Support | | | X | |

Risk Map (Numbers Refer to Table of Key Issues below)

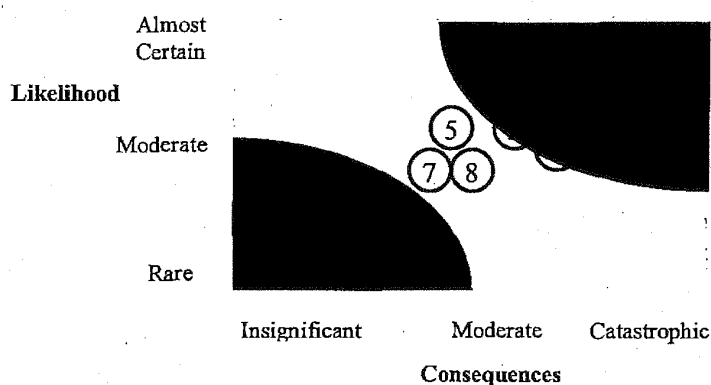


Table of Key Issues

| Issue | Responsibility | Target |
|---|----------------|--------|
| 1. Contracts with External Councils Formal contracts or service agreements have not been prepared with external Councils using FloodWise. | TBA | TBA |
| 2. Current Support Levels The current level of support and maintenance of the FloodWise system has remained unchanged for several years and appears insufficient given the recent growth in use by BCC, other Councils and soon the public. | TBA | TBA |

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| Issue | Responsibility | Target |
|---|----------------|--------|
| 3. Maintenance of Council gauges Supplying Raw Data City Design relies on a single Hydrometric Officer to support the gauges that provides raw data used by FloodWise. | TBA | TBA |
| 4. Non-Conformance of Internally Facing Web Application Architecture FloodWise currently uses Active Server Pages (ASP) to display data to internal users. ASPs do not conform with Council's Technical Reference Architecture. | TBA | TBA |
| 5. Microsoft Access Support ISB does not generally support applications developed using Microsoft Access. | TBA | TBA |
| 6. Support and User Documentation Support and user documentation was found to be incomplete and not properly maintained. | TBA | TBA |
| 7. ICT Asset Management Plan An ICT Asset Management Plan has not been prepared for FloodWise to guide and fund future maintenance, enhancements and the retirement of the system. | TBA | TBA |
| 8. Lack of an independent Risk Register The current risks and issues with FloodWise have not been properly captured and managed either in a risk register or ICT Asset Management Plan. | TBA | TBA |

BACKGROUND

The FloodWise application was developed by the Water and Environment Group within City Design in 2005 as an action from the Lord Mayor's Taskforce on Suburban Flooding. FloodWise is the graphical display of information derived from data collected by telemetry that monitors the rainfall and creek water levels at a number of points across Brisbane.

FloodWise is an application that is characterised by periods of extremely high use for short periods, while the majority of time the application is used infrequently regularly by a small group of users. It is used extensively during events, 90% of its use occurring during a storm event, with 10 to 15 events occurring annually.

BACKGROUND (CONTINUED)

FloodWise is made up of three parts: Data Collection, Data Processing and Data Display. These parts involve hardware owned and supported by Council as well as third parties. It also includes applications developed within Council as well as the Bureau of Meteorology (BoM).

FloodWise utilises approximately 800 gauges throughout the region to gather information on both rainfall and water height. Only 100 of these gauges are owned by Council and directly supported by Council staff. The remainder are owned and supported by external groups including local, state and federal governments. Data is continuously received at Brisbane Square via radio transmissions from the gauges and passed to the data processing systems through the Council data network.

Data processing is carried out using the EnviroMon application which was developed and is supported by BoM, and the FloodWise application which was developed and is supported by the FloodWise team and provides real time information to specific Council users and selected external users.

Currently the system does not provide a flood forecast capability.

The FloodWise System has now grown to service all of Southeast Queensland. BCC employees access FloodWise through the Council Intranet while external customers have access via the Internet. The FloodWise System also provides valuable information to Disaster Management teams in BCC and other SEQ councils during storm and rain events.

Information Services Branch performed a number of reviews of FloodWise between 2004 and 2007 that raised a number of concerns around single point sensitivity and the lack of systems documentation.

Two new projects based on the FloodWise data are being undertaken. These are the Floodwise Property Report Project and the FloodWise Community Access Project. Both projects have listed the original FloodWise application as a risk to their own projects based on FloodWise's single point of support, lack of documentation, system architecture and equipment age.

The Flood Management Group and others are currently in discussions with BoM with a view of BoM taking over ownership and support for the whole system. Documentation of the system would need to be completed prior to any negotiated hand-over.

Water Resources, City Planning and Sustainability is the owner of the FloodWise System and has requested Assurance Services review the risks and general controls over the system to inform their decisions about how FloodWise is to be further developed and maintained in the future.

This review was conducted as an addition to the approved 2010/2011 Assurance Services Plan and in accordance with the *International Standards for the Professional Practice of Internal Auditing*.

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RISK PROFILE

In the Assurance Services Risk Assessment process, this review topic has been identified as being relevant to the following Corporate Risk Categories. The City Planning and Sustainability's Divisional Risk Register extracted from Idea Focus on 24 September 2010, shows the following Risk Ratings for each of these categories:

| Corporate Risk Category | Exposure | Estimated Risk |
|-------------------------------|----------|----------------|
| Disasters - Natural | Major | Medium+ |
| ICT Architecture / Technology | Moderate | Medium- |
| ICT Security | Moderate | Medium- |
| Health and Safety Public | Major | High |

The above Risk Ratings relate to the Division as a whole, and therefore do not necessarily reflect the Risk Ratings of individual functions, areas, or aspects under review.

Based on the Findings and Agreed Outcomes from this review, Assurance Services sees no compelling reason to amend the respective Risk Ratings currently included in the City Planning and Sustainability Divisional Risk Register

ACKNOWLEDGMENTS

We would like to acknowledge the cooperation and assistance provided during this review by relevant management and staff of Flood Management, City Planning and Sustainability Division particularly Ken Morris and Evan Caswell, as well as Debra Green from Information Services Branch.

Andrew MacLeod

Chief Internal Auditor

Assurance, Security and Ethical Standards

File Ref: 015-2011

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STATE OF CONTROL RATING SYSTEM

| | |
|--------------------------------|--|
| Effective | Controls evaluated are adequate, appropriate, and effective to provide reasonable assurance that risks are being managed and objectives should be met. |
| Some Improvement Needed | A few specific control weaknesses were noted; generally however controls evaluated are adequate, appropriate, and effective to provide reasonable assurance that risks are being managed and objectives met. |
| Major Improvement | Numerous specific control weaknesses were noted. Controls evaluated are unlikely to provide reasonable assurance that risks are being managed and objectives should be met. |
| Unsatisfactory | Controls evaluated are not adequate, appropriate or effective to provide reasonable assurance that risks are being managed and objectives should be met. |

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AUDIT-IN-CONFIDENCE

APPENDIX 'A' - DETAILED FINDINGS AND RECOMMENDATIONS

REVIEW OF THE FLOODWISE SYSTEM

| FINDING | RECOMMENDATION | MANAGEMENT RESPONSE | AGREED DATE & RESPONSIBILITY |
|--|---|---|--|
| CONTRACTUAL OBLIGATIONS | | | |
| 1 | <i>Contracts with External Councils</i> | <i>Risk Rating – High</i> | |
| <p>A number of external Councils in South East Queensland currently pay Brisbane City Council service access fees to use the FloodWise system.</p> <p>The business area was unable to provide Assurance Services copies of any written contracts or service agreements made with these external Councils.</p> <p>A formal contract or service agreement helps ensure the roles and responsibilities of Councils and its customers are clearly defined and understood and articulate the liability for any errors, omissions or the unavailability of FloodWise data.</p> | <p>Water Resources and City Design (Flood Management) should engage Brisbane City Legal Practice (BCLP) to ascertain the level of risk Council faces by not having service agreements in place with external parties that indicate the level of service and Council's liability.</p> <p>If BCLP indicate that there is a risk of liability, Water Resources and City Design (Flood Management) should work with Brisbane City Legal Practice to develop a contract or service agreement to be signed by all external parties currently using FloodWise.</p> | <p>Draft agreements vetted by BCLP have been issued and cleared by the SEQ CEOs. Current status is that they require minor updates and final review by BCLP before forwarding to SEQ Council's for execution.</p> <p>Any contract of service agreement developed requires alignment with ISB service delivery levels.</p> | <p>Don Carroll, City Design by 24 Dec 2010</p> |

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APPENDIX 'A' - DETAILED FINDINGS AND RECOMMENDATIONS

REVIEW OF THE FLOODWISE SYSTEM

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| FINDING | RECOMMENDATION | MANAGEMENT RESPONSE | AGREED DATE & RESPONSIBILITY |
|--|--|---|--|
| SYSTEM SUPPORT | | | |
| 2 | <i>Current Support Levels</i> | <i>Risk Rating – High</i> | |
| <p>Council is planning to provide public access to flood information through Floodwise Property Report Project and the FloodWise Community Access Project (SMS alerts). Information for these new services will be sourced from the FloodWise System.</p> <p>The current level of support and maintenance of the FloodWise System has remained unchanged for several years and appears insufficient given the recent growth in use by BCC, other Councils and soon the public. A recent approved change to this system took over six months from raising the change request until ISB had completed the work for final sign-off of the change.</p> <p>The lack of proper support and maintenance for FloodWise could result in the system being unavailable or delivering incomplete or inaccurate information to users. The delivery of inaccurate information in turn may lead to litigation from other Councils or individuals.</p> | <p>Water Resources, City Design and ISB should review current support arrangements for FloodWise in light of growing use by Council and external users.</p> <p>Council should also seek advice from Brisbane City Legal Practice regarding its duty of care and any implicit or explicit obligation for business continuity and data accuracy between Council and external users.</p> <p>Funding should be sought by the appropriate business areas to address shortfalls in support levels for FloodWise.</p> | <p>Meeting held between City Design, Water Resources, Information Services Branch (ISB) and the Assurance Unit on 5 November 2010 to review the Audit and decide on actions.</p> <p>Shane Hackett to discuss ownership with Greg Scroope and confirm with Andrew Chesterman and Vicky Pethybridge.</p> <p>ISB to complete facilitate the completion of the a Business Impact Assessment (BIA) with stakeholders by the owner. ISB has prepared an initial draft for consideration. – this has already commenced and upon completion will require sign off by the business owner by 24 Nov 2010.</p> <p>Any contract of service agreement developed requires alignment with ISB service delivery levels.</p> | <p>Shane Hackett to confirm ownership by 29 Nov 2010</p> <p>Draft BIA: ISB (Geoff Ford), by 19 Nov 2010.</p> <p>Endorsed BIA: Business Owner by 26 Nov 2010</p> <p>ISB to facilitate Service Level Agreement discussion by TBA</p> |

AUDIT-IN-CONFIDENCE

APPENDIX 'A' - DETAILED FINDINGS AND RECOMMENDATIONS

REVIEW OF THE FLOODWISE SYSTEM

| FINDING | RECOMMENDATION | MANAGEMENT RESPONSE | AGREED DATE & RESPONSIBILITY |
|---|--|--|--|
| 3 Maintenance of Council Gauges Supplying Raw Data | | <i>Risk Rating – High</i> | |
| <p>The City Design (Flood Management) team includes only one Hydrometric Officer to support the Council's gauges, and hires the services of an Electronics Officer from City Building and Maintenance (CBMS) on an "as required" basis. With only one staff member to support and maintain the Council's gauges, there is a risk of the system being single point sensitive in this area. Also Council may not be able to provide accurate data should gauges fail due to the lack of timely support.</p> <p>Ipswich City Council has recently approached Council to support Ipswich's gauges. Should this happen, a second Hydrometric Officer will be needed.</p> | <p>Water Resources and City Design should consider methods to ensure flood gauges for BCC and other Councils are regularly maintained and reduce the reliance on a single specialist individual to perform such maintenance.</p> | <p>In the short term City Design will investigate suitable suppliers from the industry who can supply routine maintenance and emergency repairs.</p> <p>Long term City Design will retain in house core skills in gauge maintenance and engage external suppliers as required.</p> | <p>Don Carroll, City Design</p> <p>29/4/2011</p> |

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APPENDIX 'A' - DETAILED FINDINGS AND RECOMMENDATIONS

REVIEW OF THE FLOODWISE SYSTEM

| FINDING | RECOMMENDATION | MANAGEMENT RESPONSE | AGREED DATE & RESPONSIBILITY |
|---|---|---|---|
| 4 Non-Conformance of Internally Facing Web Application Architecture | | | |
| Risk Rating – High | | | |
| <p>FloodWise currently displays data to internal users through Active Server Pages (ASPs). This technology is classed as “non-preferred” under Council’s Technical Reference Architecture (TRA).</p> <p>The only individual in Council that currently supports the FloodWise ASP is the Principal Engineer, Flood Management within City Design. FloodWise would be unavailable if the system failed and this officer was not on hand as ASP is generally not supported by ISB.</p> | <p>ISB, Water Resources and City Design should investigate upgrading or replacing FloodWise to meet Council’s TRA and enable the system to be supported by ISB staff.</p> | <p>ISB propose to undertake an architectural review which will investigate this issue. The architectural review in itself will not address the audit finding - commitment will then be required from Manager, Water Resources, City Planning and Sustainability (or whoever is deemed as the business owner by Andrew Chesterman and Vicky Pethybridge) to decide on which recommendations to adopt and to obtain funding to implement these recommendations.</p> <p>ISB will circulate a draft architectural review scope-of-work for review and approval by the Business Sponsor by 26 Nov 2010.</p> <p>In the interim should there be a failure of the internal ASPs, BCC users can be provided with passwords to access the external web pages which are fully documented and supported by ISB</p> <p>In addition the Principal Engineer, Flood Management, Mr Ken Morris has been training senior flood engineers in maintenance and trouble shooting to ensure the Floodwise system remains operational</p> | <p>DRAFT Scope for Architectural Review:</p> <p>ISB (Geoff Ford), by 26 Nov 2010</p> <p>Once scope of Architecture Review known, estimated ETA will be provided</p> |

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APPENDIX 'A' - DETAILED FINDINGS AND RECOMMENDATIONS

REVIEW OF THE FLOODWISE SYSTEM

| FINDING | RECOMMENDATION | MANAGEMENT RESPONSE | AGREED DATE & RESPONSIBILITY |
|--|---|--|---|
| 5 <i>Microsoft Access Support</i> | <i>Risk Rating – Medium</i> | | |
| <p>The FloodWise application has been developed using Microsoft Access.</p> <p>ISB's Technical Reference Architecture does not recommend the use of MS Access for the development and support of high value business applications, and is not generally supported by ISB Database Administration or Development teams.</p> | <p>ISB and Water Resources should investigate upgrading FloodWise as part of the Managed Desktop Computing Project which is upgrading or replacing MS Access applications across Council desktops.</p> <p>FloodWise could then be more easily supported by ISB if required.</p> | <p>At 5 November meeting it was decided this was not an urgent issue for this flood season.</p> <p>ISB propose to undertake an architectural review which will investigate this issue. The architectural review in itself will not address the audit finding - commitment will then be required from Manager, Water Resources, City Planning and Sustainability (or whoever is deemed as the business owner by Executive Management Team) to decide on which recommendations to adopt and to obtain funding to implement these recommendations.</p> <p>ISB will circulate a draft architectural review scope-of-work for review and approval by the Business Sponsor by 26 Nov 2010.</p> | <p>DRAFT Scope for Architectural Review: ISB (Geoff Ford), by 26 Nov 2010</p> <p>Once scope of Architecture Review known, estimated ETA will be provided.</p> |

DRAFT

SYSTEM DOCUMENTATION

6 Support and User Documentation

Risk Rating – High

The system and user documentation to support the MS Access based system was found to be incomplete and not properly maintained. Documentation is only updated when the system is changed, or training is undertaken.

City Design (Flood Management) staff have estimated that full documentation of the system would be costly.

Complete and up to date system documentation is vital for enabling the efficient and effective support of the system.

The FloodWise System should be properly documented to ensure that the application can be properly maintained and system issues promptly rectified.

Funding to complete the FloodWise documentation may be available through the Federal Government's National Disaster Resilience Program.

Documents from previous reviews by ISB should be reviewed and updated to represent the current configuration and architecture.

ISB will undertake document discovery and gap analysis to determine the scope and cost of work required to complete system documentation.

Discovery and gap analysis to be completed by 10 December 2010.

DRAFT

FUNDING**7 ICT Asset Management Plan****Risk Rating – Medium**

An ICT Asset Management Plan for FloodWise has not been prepared.

An ICT Asset Management Plan sets out the future maintenance, enhancement and replacement strategy for an application and assists in funding these activities.

Proper ICT asset management planning is important to ensure the ongoing performance and stability of high business value systems such as FloodWise. The fact that FloodWise is also used by other Councils reinforces the need to proactively maintain the system.

Water Resources, City Design and ISB should work together to develop an ICT Asset Management Plan that sets out the future maintenance, enhancement and replacement strategy for an application and funding estimates for these activities to ensure Council's business outcomes are met.

This ICT Asset Management Plan should also investigate the best option for supporting the application in light of current and expected business needs of Council and its customers.

The FloodWise Business Sponsor to develop an Asset Management Plan, seeking input and assistance from ISB and other system stakeholders. It is anticipated this will occur after the completion of the architectural review.

Shane Hackett (or alternate appointed business sponsor)
Timeline TBC

DRAFT

RISK MANAGEMENT**8 Management of FloodWise Risks and Issues****Risk Rating – Medium**

The current risk and issues relating to FloodWise have not been captured and managed in any Risk Register or an ICT Asset Management Plan at a divisional, branch or application specific level by the business areas responsible or ISB.

Risks and issues have been highlighted in reviews undertaken between 2004 and 2007. The risks and issues raised in these reviews have not been examined and revised for current configuration, architecture and usage.

Water Resources and City Design should ensure all risks and issues relating to FloodWise are fully documented in an appropriate risk register and/or ICT asset management plan and reviewed by Management on a regular basis.

The risks and issues raised in previous FloodWise reviews should also be included in the Risk Register or ICT Asset Management Plan.

ISB will review available FloodWise reviews and enter any risks raised in these reviews onto the appropriate Divisional risk register.

John Harrison
31 Dec 2010

DRAFT

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APPENDIX 'A' - DETAILED FINDINGS AND RECOMMENDATIONS

REVIEW OF THE FLOODWISE SYSTEM

RISK RANKING DEFINITIONS -REPORT ITEMS (APPENDIX A)

- High** As is a high priority issue immediate management attention is required. This is a serious internal control or risk management issue that if not mitigated may, with a high degree of certainty, lead to:
- Substantial losses, possibly in conjunction with other weaknesses in the control framework or organizational entity being audited.
 - Serious violation of corporate strategies policies or values.
 - Serious reputation damage such as negative publicity in national or international media.
 - Significant adverse regulator impact such as loss of operating licenses or material fines.
- Medium** As this is a medium priority issue, timely management attention is warranted. This is an internal control or risk management issue that could lead to:
- Financial losses.
 - Loss of controls within the organizational entity or process being audited.
 - Reputation damage, such as negative publicity or regional media.
 - Adverse regulatory impact, such as public sanctions or immaterial fines.
- Low** As this is a low priority issue, routine management attention is warranted. This is an internal control or risk management issue, the solution to which may lead to improvement in the quality and/or efficiency of the organizational entity being audited.
Risks are limited.

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APPENDIX 'B' - REVIEW OBJECTIVES AND SCOPE

OBJECTIVES

The objectives of the review:

- Ensure that adequate general controls are in place for management of the FloodWise system to address the key information systems risks, namely the confidentiality, integrity and availability of flood information.
- Evaluate Council's capability to operate and maintain FloodWise currently and into the future including user training, documentation and service agreements.
- Ensure that risks related to FloodWise and supporting ICT infrastructure are adequately identified and appropriately managed; and
- Ensure that associated documentation is managed appropriately.

SCOPE

The scope of this review:

- Assess the risk that end users, including South East Queensland Councils, cannot access Floodwise information during times of critical demand.
- Assess the risk of failure of the Floodwise system hardware, software and supporting network. Reviewing controls around system continuity.
- Systems Administration risks including logical access controls to FloodWise via the internal network and Internet
- Review of leanings from customer feedback received and how the system has improved over time

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"KJM-13"

FloodWise Information System

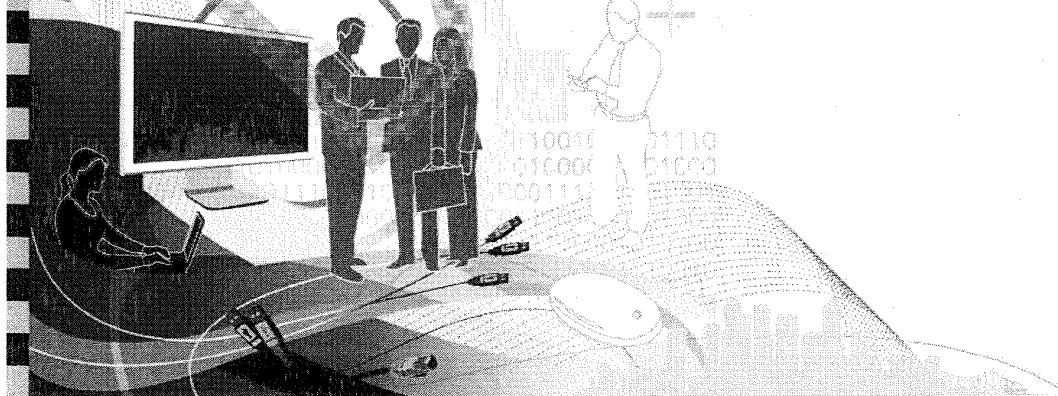
Architectural Review
v1.0

7 March 2011

Prepared by: David Tickle, Solution Architect

Business area: ICT Strategy & Architecture, Information Services, Corporate Services Division

Internal use only



Dedicated to a better Brisbane

Document control

If you have any questions regarding this document or if you have a suggestion for improvements, please contact:

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File path

G:\Strategy\149 INFO TECH\630 Projects\0\CPS Floodwise Audit Response\Architectural Review\Floodwise Architectural Review v1.0.doc

Version history

| Version | Date | Changed by | Changes |
|---------|-----------------|--------------|--|
| 0.1 | 5 January 2011 | David Tickle | Initial draft. |
| 0.2 | 9 February 2011 | David Tickle | Updated draft for internal review. |
| 0.3 | 1 March 2011 | David Tickle | Updated draft following internal review. |
| 1.0 | 7 March 2011 | David Tickle | Updated following briefing with Nick Brant and Jeff Tendero. |

Executive summary

FloodWise is a collection of systems that provide *near 'real-time' rainfall and water level information* across the greater Brisbane region. The systems monitor hydrometric field sensors and provide flood-related information to Council, other SEQ regional authorities and government agencies. The majority of the systems are *developed and maintained by the Flood Management group in City Design with limited ISB involvement*.

In November 2010, Assurance Services undertook a review of the FloodWise information systems and concluded that *the control environment was unsatisfactory*. This document represents ISB's response to a number of the report findings. It intends to provide an accurate assessment of the applications' current state and provide both short- and long-term recommendations for their improvement.

A review of the existing systems identified over 15 separate, yet tightly coupled systems. An assessment of the applications showed that FloodWise, as a whole, has a *high business value*, but is generally in *poor technical condition*.

Consultation with the Bureau of Meteorology identified that *Council is not currently using the full capabilities of its Enviromon product* and that it offers some similar features to those re-implemented in custom-built applications (e.g., alerting, graphing, mapping, etc.).

The market scan identified a number of applications that could potentially replace elements of the existing systems. Of particular interest were the *HYDSTRA and WISKI products from Kisters*. While elements of HYDSTRA are already used within the Flood Management Group, the Kisters products offer additional mapping, alerting and web-publishing capabilities. These applications are widely used in the industry and could be readily integrated with Council's existing ESRI-based GIS environment.

While *no formal business requirements have been agreed*, discussions with stakeholders identified a number of key future business requirements including greater public access, improved alerting and enhanced operational awareness. Such requirements will need to be fully explored and documented prior to any significant changes to the existing systems. Similar requirements for the FloodSmart Assets project should also be considered.

A number of broad options for flood monitoring were examined.

| Option | Description | Indicative Estimate | Recommended |
|-----------------------------------|---|---------------------|-------------|
| Use Bureau of Meteorology Systems | Decommission existing FloodWise applications and rely upon information provided by the Bureau of Meteorology. <i>While the BoM makes near real-time rainfall and water level information available on line, it does not offer the same level of data processing that is critical in assessing flash-flooding risk. Further, the BoM does not offer direct email or SMS based alerts.</i> <i>Resolves audit findings by decommissioning systems, but unlikely to meet the requirements of Council.</i> | N/A | No |

| Option | Description | Indicative Estimate | Recommended |
|---------------------------------------|--|---------------------|---------------------|
| Improve Condition of Existing Systems | <p>Improve the condition of the existing applications where possible, without fundamental redevelopment (includes production of technical documentation, database upgrade, data centre hosting).</p> <p><i>Address a number of immediate risks to FloodWise but offers only limited resolution of audit findings.</i></p> | | Yes (Short Term) |
| Use Commercial Replacement | <p>Replace the collection of existing applications with a commercial product and integrate with existing Council (ESRI GIS products) and BoM (Enviromon) systems.</p> <p><i>A number of commercial software packages exist and the market for flood monitoring software is relatively mature. While no formal business requirements have been defined, it is anticipated that a commercial product could meet the likely needs of Council.</i></p> <p><i>Expected to address all ICT-related audit findings.</i></p> | | Yes (Long Term) |
| Develop Custom Replacement | <p>Develop new custom application, specific to Council's needs on preferred enterprise platform (Java/Oracle). Integrate with existing Council (ESRI GIS Products) and BoM (Enviromon) systems</p> <p><i>Developing a custom-built application is the least preferred option under Council's Enterprise Architecture principles. While a custom-built application can be tailored to meet almost any requirement, it does so at increased cost and significantly increased risk.</i></p> <p><i>Expected to address all ICT-related audit findings.</i></p> | | No |

Table 1: Solution Option Summary

Ultimately, this review recommends that a variety of *short term improvements* to the existing systems be undertaken as a priority (more fully described in section 7.2), prior to *replacement with a commercial software product*, integrating with existing Council and BoM systems.

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1 Introduction

1.1 Purpose and audience

The purpose of this document is to recommend a range of ICT initiatives for flood monitoring in Council in response to findings presented in the Assurance Services Report entitled *Review of the FloodWise Information System*.

To achieve this purpose, the document presents:

- A summary of the audit findings;
- An architectural review of the system in its current state;
- Information on flood monitoring IT systems in peer organizations;
- A market scan of commercial flood monitoring software products;
- An outline of likely business requirements as they are currently understood;
- Solution options to address audit findings; and
- Short and long term recommendations.

The intended audience includes representatives from:

- Flood Management, Water and Environment, City Design, BI
- Water Resources, CPaS
- Disaster Response & Recovery Office, OLMCEO
- ICT Strategy & Architecture, Information Services, Corporate Services

1.2 Background

A Note on the Use of "FloodWise"

The term "FloodWise" has historically been applied to a variety of flood-related systems and projects at Council. For the purposes of this report, "FloodWise" will be used to describe the collection of IT systems used to support near real-time flood monitoring. As described later in section 1.4, other systems such as "FloodWise Property Reports" and "Flood Flag Maps" are specifically excluded from scope and are technically independent of the flood monitoring systems.

FloodWise is a collection of systems that provide near 'real-time' information on rainfall and water levels across the greater Brisbane region. They monitor hydrometric field sensors and provide flood-related information to Council, other SEQ regional authorities and government agencies.

FloodWise has been the subject of regular ongoing development and enhancements:

- Original 'Stage 1' development in 2002 by the Water Environment Group within City Design for internal use only;
- 'Stage 2' development of an internet-facing website for a limited set of Council staff and a more limited set of Bureau of Meteorology and State Emergency Service staff;
- 'Stage 3' development which saw the 'Stage 2' internet system extended for use by other SEQ local authorities. This is commonly known as 'FloodWise SEQ'.
- Further 'Stage 4' development was undertaken to enable access to FloodWise by the

general public. Such public access was never deployed due to capacity and usability concerns. Related work was subsequently undertaken to pilot the integration of FloodWise with the Early Warning Network to trial flood alerts for Boondall residents.

Today, FloodWise is used by hundreds of users, both internal and external to Council, and plays a critical role during emergency flash-flooding.

In November 2010 Assurance Services undertook a review of the FloodWise information systems and concluded that *the control environment was unsatisfactory*. The key findings were in the areas of:

- Contracts with External Councils
- Current Support Levels
- Maintenance of Council Gauges Supplying Raw Data
- Non-Conformance of Internally Facing Web Application Architecture
- Microsoft Access Support
- Support and User Documentation
- ICT Asset Management Plan
- Management of FloodWise Risks and Issues

ISB responded to a number of these findings by proposing to conduct an Architectural Review which led to the production of this document.

1.3 Objectives

The key objectives of this document are:

- To provide an accurate assessment of the existing FloodWise systems so that all stakeholders are clearly informed of their current state;
- To offer short-term, ICT-related recommendations to enhance the condition of the existing systems; and
- To recommend longer-term initiatives to improve the way in which ICT supports flood monitoring activities in Council.

1.4 Scope

The scope of this document is defined across the three domains of people, process and technology in the following sections.

1.4.1 People

The table below shows the key stakeholders of FloodWise that were considered as part of the Architectural Review.

| In Scope | Out of Scope |
|--|--|
| <ul style="list-style-type: none"> • Flood Management, Water and Environment, City Design, BI • Water Resources, CPaS • Disaster Response & Recovery Office, OLMCEO | <ul style="list-style-type: none"> • All other Council staff • All other local, state and federal Government agencies. |

| In Scope | Out of Scope |
|---|--------------|
| <ul style="list-style-type: none"> • Contact Centre, Customer Services, FaCS • Pest and Habitat, Local Asset Services, FaCS • Information Services Branch, CS • Queensland Urban Utilities • The Australian Early Warning Network • Bureau of Meteorology • State Emergency Service • Other regional Councils | |

Table 2: People Scope

1.4.2 Process

The table below shows the scope of the Architectural Review in terms of process.

| In Scope | Out of Scope |
|--|---|
| <ul style="list-style-type: none"> • Data Collection • Data Cleansing/Calibration • Data Analysis/Generation • Data Publication/Processing • Data Archiving • Flood Monitoring • Flood Modelling/Planning • Flood Emergency Management | <ul style="list-style-type: none"> • Gauge Maintenance • Ground and Aerial Surveys • Long Term Forecasting • Any other business processes |

Table 3: Process Scope

1.4.3 Technology Scope

The tables below show the various technology components inside and outside the scope of this review.

Application Scope

| In Scope | Out of Scope |
|---|--|
| <ul style="list-style-type: none"> • FloodWise SEQ (Internet) • FloodWise SEQ (Internet) User Management • FloodWise (Intranet) • Enviromon • FloodWise Visual Basic Applications, including, but not limited to <ul style="list-style-type: none"> – FW Service Controller – FW Minder – Web Rainfall – Flood Damage | <ul style="list-style-type: none"> • FloodWise Property Report • Flood Flag Maps • Early Warning Network • Any other ICT systems |

| In Scope | Out of Scope |
|--|--------------|
| <ul style="list-style-type: none"> – Contour – Net Transfer – Web Gauges – iNet Acquire • SCP/FTP File Transfer | |

Table 4: Application Scope

Database Scope

| In Scope | Out of Scope |
|---|---|
| <ul style="list-style-type: none"> • Waterways databases (WISP, WISU, WISD) • FloodWise SEQ User Management databases (SIIP, SIU, SIIR, SIIT, SIID) • FloodWise Access databases (Gauges.MDB and others) | <ul style="list-style-type: none"> • Any other databases |

Table 5: Database Scope

Server Scope

| In Scope | Out of Scope |
|--|--|
| <ul style="list-style-type: none"> • PCs running Enviromon and Visual Basic Applications • Servers hosting waterways databases (C2K110/Tardus, C2K210, C2K310) • FloodWise SEQ (Internet) servers (AVL85 and others) • Floodwise SEQ (Internet) User Management servers (BL105, BL205 and others) • SCP/FTP File Transfer Servers | <ul style="list-style-type: none"> • Any other servers and workstations |

Table 6: Server Scope

Network Scope

| In Scope | Out of Scope |
|---|---|
| <ul style="list-style-type: none"> • Antenna to PC network connection (including optical fibre, modems, etc) • Fixed "land-line" telephones | <ul style="list-style-type: none"> • Remote Water/Rainfall Gauges • Brisbane Square Radio Antenna • Any other network infrastructure |

Table 7: Network Scope

1.5 Assumptions

The following assumptions have been made:

- For the purposes of the review and the acknowledgement of recommendations put forward, Shane Hackett, Acting Manager, Water Resources, City Planning and Sustainability is the owner of the FloodWise information systems.
- No formal business requirements have been agreed or signed off, but the scope of previous initiatives has been assumed to be representative of future business requirements.

1.6 Constraints

Production of this report has been subject to the following constraints:

- Comprehensive business requirements for future flood monitoring activities in Council are not available.

1.7 Dependencies

Implementation of the recommendations in this report are dependent upon:

- A formal owner of the FloodWise information being determined;
- Adequate funding being sought and granted through Council's budgetary processes;
- Sufficient resources from all stakeholders being available to implement the accepted recommendations;

1.8 Related documents

A substantial number of architectural review and advice documents have been prepared in the past. A summary of these are presented below.

| Date | Title | Summary |
|---------------|--|---|
| November 2010 | FloodWise – Business Impact Assessment | <ul style="list-style-type: none"> • Describes the impact to Council if FloodWise information were disclosed, inaccurate or unavailable. • Several major impacts identified. • Moderate impact likely to be experienced in less than 1 hour if issues encountered during flood event. |
| November 2010 | Assurance Services Report – Review of the FloodWise Information System | <ul style="list-style-type: none"> • Audit document identifying the controls in relation to FloodWise as unsatisfactory. • Includes ISBs response to findings prompting this Architectural Review document. |
| March 2010 | FloodWise Community Alert Risk Advice | <ul style="list-style-type: none"> • Advice from ICT Risk, Security and Compliance |
| February 2009 | FloodWise Threat & Risk Assessment | <ul style="list-style-type: none"> • Externally conducted Threat & Risk assessment on FloodWise conducted in response to FloodWise SEQ, in which other regional bodies were granted access to FloodWise online. • Identified several important risks and recommended the following changes: |

| Date | Title | Summary |
|------------|---|--|
| | | <ul style="list-style-type: none"> – Implement server side controls to remove hazardous content in web traffic – Review and disable SSL caching on all appropriate pages – Review and implement generic error messages on the web server |
| March 2007 | Flood Management Solution Architecture and Roadmap | <ul style="list-style-type: none"> • Prepared following the completion of the Lord Mayor's Taskforce on Suburban Flooding. • Examines the high level goals and objectives in relation to Flood Management and presents high level business requirements. • Presents business value and technical condition assessments on the major ICT components. • Conducts a gap analysis between the current and future states. • Proposes and evaluates options to meet business needs • Provides a roadmap of initiatives including: <ul style="list-style-type: none"> – Implementing a Flood Information Portal – Improving FloodWise technical condition – Improving Flood Model Publishing – Integrate with Record/Document Management – Integrating with asset management – Integrating with works management |
| June 2006 | FloodWise Business Value and Technical Condition Assessment | <ul style="list-style-type: none"> • Prepared after FloodWise Stage 1, which enabled remote access to staff monitoring rainfall events via the internet, but did not meet the Enterprise Technical Architecture. • Includes detailed business value and technical condition assessments. • Recommends that the risk mitigation activities be completed as a priority: <ul style="list-style-type: none"> – Deploy FloodWise on managed servers in corporate data centres. – All source code to be managed through the corporate version control software – All system changes to flow through Council's Change Management and Release Management Processes – All required documentation is completed and provided to support groups – Creation of a CSA agreement with iDivision |

| Date | Title | Summary |
|---------------|-----------------------------------|--|
| | | for the support of FloodWise |
| December 2004 | FloodWise – As-Is System Analysis | <ul style="list-style-type: none"> • Prepared as a background document to assist with future efforts to deliver FloodWise via the internet. • Describes FloodWise from a system perspective, detailing the major components • Provides a summary of the Microsoft Access and Oracle data models • Outlines system specifications • “As-Is” description only, no recommendations or proposals. |

Table 8: Related Documents

2 Current State

The FloodWise information systems considered as part of this review are numerous, diverse in nature and of varying condition. They are connected and integrated in a complex manner.

2.1 Conceptual Architecture

Figure 1 (below) presents the current conceptual architecture. It places systems examined within the following domains:

- **Orchestration** Responsible for the scheduling and co-ordination of other systems. They ensure that the set of applications responsible for collection, processing, inter-agency transfer and notification are running as expected.
- **Collection** Responsible for collecting water level and rainfall information as it arrives from the field sensors.
- **Processing** Applications falling into this domain process the gauge readings and prepare it for presentation or notification. Such processing includes performing time-series analysis to identify periods of high-intensity rainfall, producing graphs and identifying where gauge readings have exceeded thresholds.
- **Notification** Responsible for notifying staff members to potential flood events through emails and SMS.
- **Inter-Agency Transfer** The transfer of water level and rainfall readings to and from agencies external to Council is performed by applications in this domain.
- **System Integration** Transfers data between various Council systems
- **Presentation** Displays meaningful and processed data for Council and external agency staff.

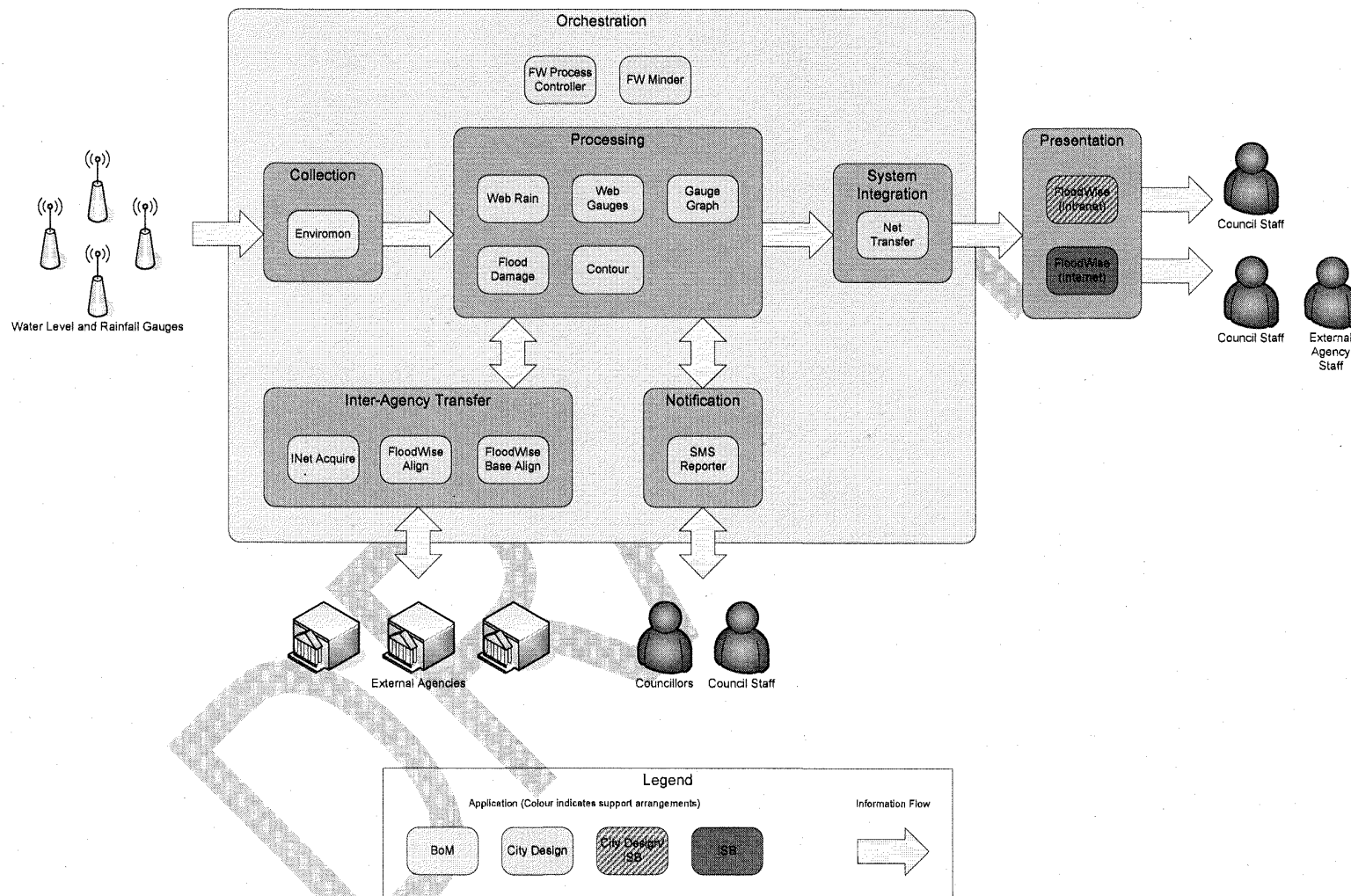


Figure 1: FloodWise Current Conceptual Architecture

The purpose of each application is summarised in the table below:

| Application | Conceptual Domain | Supported By | Purpose |
|-----------------------|-----------------------|---|--|
| Enviromon | Collection | BoM (Application) + CD (Infrastructure) | Provided by the BoM, Enviromon monitors sensor information received by radio antenna, calibrates and filters readings. Generates reports for consumption by data processing applications. |
| FW Process Controller | Orchestration | CD | Windows service that ensures the FW Minder application continues to run as expected. |
| FW Minder | Orchestration | CD | Schedules the periodic processing of sensor data on a 5 minute basis. Co-ordinates the execution of collection, processing, inter-agency transfer, notification and system integration applications. Alternatively known as Enviromind. |
| Web Rain | Processing | CD | Summarises time-series gauge information suitable for presentation. Sums rainfall over time (5, 10, 15 minutes, etc.). Calculates return period. |
| Web Gauges | Processing | CD | Summarises gauge information. Pre-calculates gauge information suitable for presentation. |
| Gauge Graph | Processing | CD | Generates graphs for sensor readings. |
| Flood Damage | Processing | CD | Determines impact of flooding based on water levels. Identifies if roads, parks, etc are likely to be closed based on location of sensors. |
| Contour | Processing | CD | Generates rainfall intensity maps for display via the FloodWise intranet and internet applications. |
| INet Acquire | Inter-Agency Transfer | CD | Collects rainfall information from external agencies via file transfer. |
| FloodWise Align | Inter-Agency Transfer | CD | Exports gauge calibration settings from external agencies. |
| FloodWise Base Align | Inter-Agency Transfer | CD | Exports gauge calibration settings for Brisbane City Council. |
| SMS Reporter | Notification | CD | Generates alerts via email and SMS based on gauge readings. Also processes replies to alerts. |

| Application | Conceptual Domain | Supported By | Purpose |
|--------------------------|--------------------|--|--|
| Net Transfer | System Integration | CD | Synchronises data from the local Gauges Microsoft Access database to the Waterways Information System Oracle database. |
| FloodWise (Intranet) | Presentation | CD (Application) + ISB (Infrastructure) | Displays graphical rainfall and water level information for Council staff only. |
| FloodWise SEQ (Internet) | Presentation | ISB | Displays graphical rainfall and water level information for Council staff and external agencies. |

Table 9: Conceptual Application Summary

2.2 Technical Architecture

The numerous applications that comprise the FloodWise information systems rely upon a diverse range of technologies, are physically hosted in a variety of locations and interconnected in a complex manner.

The following diagrams, reproduced from previous work conducted by ICT Risk, Security and Compliance and updated as part of this review, show the complexity of the existing technical architecture.

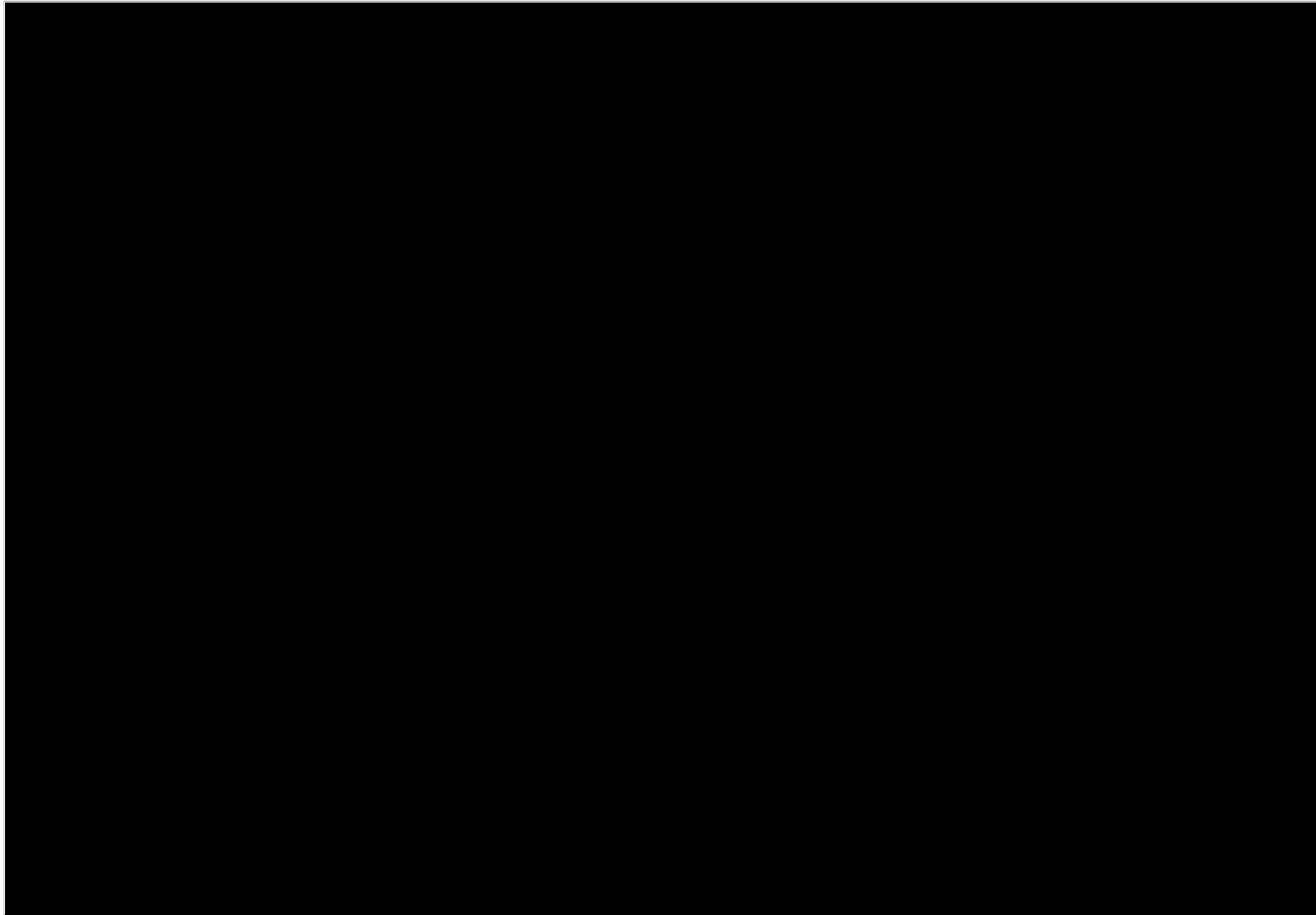


Figure 2: Current Technical Architecture

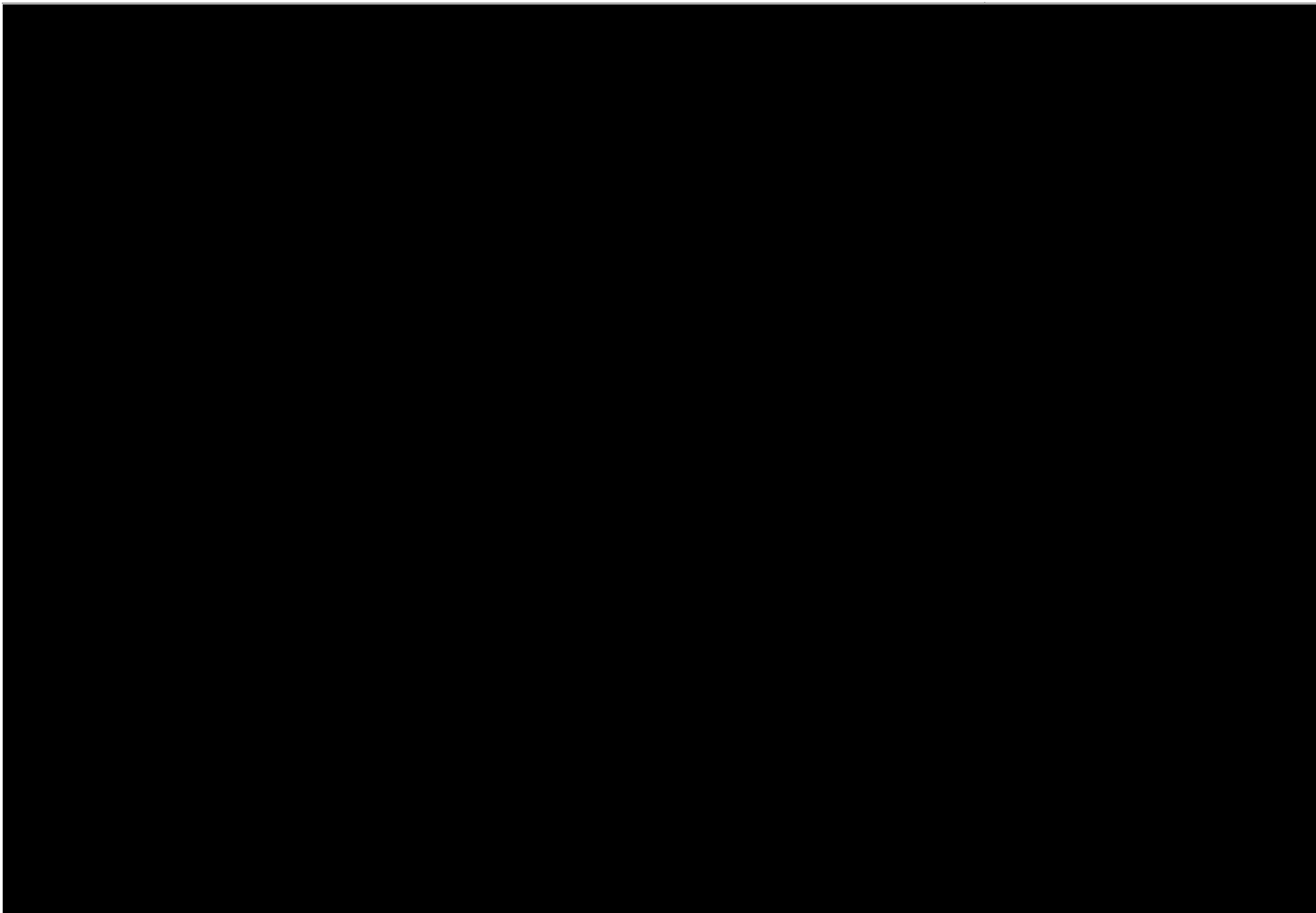


Figure 3: Current Technical Architecture (File Transfer)

The table below summarises the key technical attributes of each application.

| Application | Operating System | Database Platform | Development Language | Hosting Environment |
|--------------------------|---------------------|-----------------------|-----------------------|-----------------------------|
| Enviromon | Windows XP | Proprietary | Unknown | PC at Green Square |
| FW Process Controller | Windows XP | Access 97 | Visual Basic 6 | PC at Green Square |
| FW Minder | Windows XP | Access 97 | Visual Basic 6 | PC at Green Square |
| Web Rain | Windows XP | Access 97 | Visual Basic 6 | PC at Green Square |
| Web Gauges | Windows XP | Access 97 | Visual Basic 6 | PC at Green Square |
| Gauge Graph | Windows XP | Access 97 | Visual Basic 6 | PC at Green Square |
| Flood Damage | Windows XP | Access 97 | Visual Basic 6 | PC at Green Square |
| Contour | Windows XP | Access 97 | Visual Basic 6 | PC at Green Square |
| INet Acquire | Windows XP | Access 97 | Visual Basic 6 | PC at Green Square |
| FloodWise Align | Windows XP | Access 97 | Visual Basic 6 | PC at Green Square |
| FloodWise Base Align | Windows XP | Access 97 | Visual Basic 6 | PC at Green Square |
| SMS Reporter | Windows XP | Access 97 | Visual Basic 6 | PC at Green Square |
| Net Transfer | Windows XP | Access 97 + Oracle 9i | Visual Basic 6 | PC at Green Square |
| FloodWise (Intranet) | Windows Server 2003 | Oracle 9i | VBScript, Classic ASP | Brisbane Square Data Centre |
| FloodWise SEQ (Internet) | Linux | Oracle 9i | Java | Brisbane Square Data Centre |

Table 10: Technical Application Summary

2.3 Business Value and Technical Condition Assessment

The following table summarises the results of business value and technical condition assessments undertaken on the suite FloodWise systems. Broadly, the applications retain a high business value and generally meet the majority of today's needs, but are in poor technical condition.

| Application | Business Value | Technical Condition |
|--------------------------|--|--|
| Enviromon | Medium-High | Medium |
| FW Process Controller | <ul style="list-style-type: none"> Application Impact = Medium-High Fit with Current Requirements = High Fit with Future Requirements = Medium Information Quality = Medium-High Scope of Use = Medium-High Frequency of Use = Medium Contingency Arrangements = Medium | Medium-Low |
| FW Minder | | <ul style="list-style-type: none"> Performance = Medium |
| Web Rain | | <ul style="list-style-type: none"> Condition= Low |
| Web Gauges | | <ul style="list-style-type: none"> Maintenance = High |
| Gauge Graph | | <ul style="list-style-type: none"> Technology = Low |
| Flood Damage | | <ul style="list-style-type: none"> Design = Medium |
| Contour | | <ul style="list-style-type: none"> Integration = Low |
| INet Acquire | | |
| FloodWise Align | | |
| FloodWise Base Align | | |
| SMS Reporter | | |
| Net Transfer | | |
| FloodWise (Intranet) | | Medium-Low |
| FloodWise SEQ (Internet) | | Medium-Low |

Table 11: Business Value and Technical Condition Assessment Summary

The following sections provide more detail to each assessment.

2.3.1 Business Value

As it is the collection of applications that provides value to Council, a single business value assessment was undertaken on the systems as a whole.

| Criterion | Description | Comments | Rating |
|-------------------------------|--|--|-------------|
| Application Impact | What is the political / legislative impact of unexpected outages or failures? | Significant political impact if FloodWise were unavailable during a period of flooding. Recent BIA highlights that the Lord Mayor would likely become involved in resolving outages. Outside of flood events, limited impact if system is unavailable. | Medium-High |
| Fit with Current Requirements | How well does this application cover your business requirements? | Current business requirements are well met. No obvious functional gaps. | High |
| Fit with Future Requirements | How well do you believe this application could meet your future requirements? | There is a strong desire for extending FloodWise for broader community access that cannot be delivered at present. | Medium |
| Information Quality | Does the application provide you with accurate, complete and timely information? | Rainfall and water level information is collected and displayed in near real time (5 minute polling interval). Some gauge maintenance issues occasionally impact information quality (i.e., calibration, vandalism, etc), but the vast majority of readings are accurate. | Medium-High |
| Scope of Use | What is the scope of this application's use within this business area | The collection of applications is used by a large number of small, diverse teams, both inside and outside Council. The number of users is in excess of 100. | Medium-High |
| Frequency of Use | What is the frequency of use within this business area? | Usage is very high during flood events (typically 10-15 per year), but generally very low outside such times. | Medium |
| Contingency Arrangements | What provisions have you made for if the application is not available? | Some elements of the systems have disaster plans in place, others do not. Certain contingency measures are in place (non-VoIP phones, secondary PCs, etc), but no documented procedures have been identified. | Medium |

Table 12: Business Value Assessment

2.3.2 Technical Condition

Unlike the business value assessment, the technical assessment was divided upon technology platform.

Enviromon

The table below assesses the technical condition of Enviromon, the data collection application provided by the Bureau of Meteorology.

| Criterion | Description | Comments | Rating |
|-------------|---|--|-------------|
| Performance | The reliability and responsiveness of the application. | The application generally performs well in monitoring rainfall and water levels. Periodic report generation can occasionally take more than 5 minutes to complete. | Medium-High |
| Condition | Well structured and understandable code, complete & up to date documentation and compliance with standards. | Enviromon is a commercial-off-the-shelf developed by the Bureau of Meteorology and includes a complete and thorough set of documentation. | Medium-High |
| Maintenance | The volume, type and frequency of maintenance activity are indicators of the ease of maintenance and rework being investigated. | Enviromon is maintained by the Bureau of Meteorology and has been periodically updated. There is demand for further development, but the Bureau has no strategy in place for funding or implementation. | Medium |
| Technology | The degree to which the application uses current, industry-standard software and complies with architecture standards. | Enviromon is a Windows-based application, designed to run on XP Professional or Windows 2000/2003 Server. Support for Windows 7 and Windows Server 2008 R2 is unknown. Data is stored in proprietary files held on local storage and not in a relational database management system. The applications run on workstations at Green Square with limited hardware redundancy and poor physical controls. | Medium |
| Design | Assesses the flexibility of an application to adjust to changing demands. | No detailed examination of source code possible, but Enviromon Administrator Reference describes modular architecture. Includes subsystems for Data Collection, Alerts, System Display & Management and Authentication. | Medium |

| Criterion | Description | Comments | Rating |
|-------------|--|---|--------|
| Integration | Assesses the clarity or complexity and number of application interfaces and their impact on business functionality delivery. | System integration to FloodWise data processing applications via fixed width text files only. No SOA-based integration. | Low |

Table 13: Enviromon Technical Condition Assessment

Visual Basic 6 Applications

All of the numerous Visual Basic 6-based applications used to perform orchestration, data processing, inter-agency transfer, notification and system integration were assessed together given their common technical platform.

| Criteria | Description | Comments | Rating |
|-------------|---|--|------------|
| Performance | The reliability and responsiveness of the application. | The applications generally perform reliably in monitoring rainfall and water levels. Some components running on development PC due to insufficient production performance. | Medium |
| Condition | Well structured and understandable code, complete & up to date documentation and compliance with standards. | Source code exhibits some structure, but mixes business logic and data access. Source code is not stored in the corporate configuration management system and is not deployed via a structured release management process. No detailed design documentation available. | Low-Medium |
| Maintenance | The volume, type and frequency of maintenance activity are indicators of the ease of maintenance and rework being investigated. | Development and enhancements to the FloodWise data processing applications are undertaken regularly. Changes are deployed rapidly. | High |
| Technology | The degree to which the application uses current, industry-standard software and complies with architecture standards. | The applications are developed using Visual Basic 6. Mainstream support for the VB6 development environment ended in 2005 and extended support ended in 2008. The VB6 development environment is compatible with Windows XP, but not with Windows 7 (although applications developed in VB6 remain compatible with Windows 7). | Low |

| Criteria | Description | Comments | Rating |
|-------------|--|---|--------|
| | | Data is stored in Access 97 databases. Support for Access 97 ended in 2004. It is compatible with Windows XP, but not Windows 7. The applications run on workstations at Green Square with limited hardware redundancy and poor physical controls. | |
| Design | Assesses the flexibility of an application to adjust to changing demands. | Rate of change suggests that applications can be modified to meet changing business needs. Application settings are managed by configuration files. | Medium |
| Integration | Assesses the clarity or complexity and number of application interfaces and their impact on business functionality delivery. | Integration is via fixed width text files and direct database links only. No loose coupling. No SOA-based integration. | Low |

Table 14: Visual Basic 6 Applications Technical Condition Assessment

FloodWise (Intranet)

The intranet-facing FloodWise application was assessed separately due to its distinct technology platform.

| Criteria | Description | Comments | Rating |
|-------------|---|--|-------------|
| Performance | The reliability and responsiveness of the application. | The application generally performs reliably in monitoring rainfall and water levels. Some performance issues have previously been encountered in producing graphs but these have been overcome through additional data processing applications. | Medium-High |
| Condition | Well structured and understandable code, complete & up to date documentation and compliance with standards. | The application is primarily written in VBScript and served via Classic ASP, but also includes a small number of JavaScript libraries and references a Java applet. Source code is not stored in the corporate configuration management system and is not deployed via ISB release management processes. The production environment has limited security controls in place and code changes can be made directly to the live system by unauthorized users. No detailed design documentation available. | Low |

| Criteria | Description | Comments | Rating |
|-------------|---|--|--------|
| Maintenance | The volume, type and frequency of maintenance activity are indicators of the ease of maintenance and rework being investigated. | Changes to the intranet-facing FloodWise system have been made regularly. | Medium |
| Technology | The degree to which the application uses current, industry-standard software and complies with architecture standards. | <p>The intranet-facing FloodWise application runs on Windows Server 2003. This version of the OS is listed as operational, but not strategic in Council's technical architecture.</p> <p>It is served via classic ASP which is not a supported platform in Council's technical architecture.</p> <p>The database is hosted in Oracle 9.2.0.5.0 on Windows Server 2003. The version of Oracle is obsolete according to Council's standards and is not generally supported on Windows Server. This database is also shared with other City Design systems (WIP).</p> | Low |
| Design | Assesses the flexibility of an application to adjust to changing demands. | <p>There is minimal code separation. Data retrieval, business logic and presentation code are not separated in a layered approach.</p> <p>No service-oriented design.</p> | Low |
| Integration | Assesses the clarity or complexity and number of application interfaces and their impact on business functionality delivery. | Integration is via direct database links only. No loose coupling. No SOA-based integration. | Low |

Table 15: FloodWise (Intranet) Technical Condition Assessment

FloodWise SEQ (Internet)

Finally, the technical condition of the internet-facing FloodWise SEQ application was assessed.

| Criteria | Description | Comments | Rating |
|-------------|---|--|-------------|
| Performance | The reliability and responsiveness of the application. | The application generally performs reliably in monitoring rainfall and water levels. Some performance issues have previously been encountered in producing graphs but these have been overcome through additional data processing applications. Note, FloodWise Community Access investigated extending the internet-facing FloodWise application to the general public. It was found that the system in its current form would not perform adequately. | Medium-High |
| Condition | Well structured and understandable code, complete & up to date documentation and compliance with standards. | The application is written in Java, but previous reviews have highlighted significant quality issues. Code is not well structured. It is difficult to understand and maintain. Source code is maintained in the corporate configuration management tool, but the application cannot be reliably re-built without relying upon a copy of the production system. Some detailed design documentation exists, but poorly describes the system as it has been built. | Low |
| Maintenance | The volume, type and frequency of maintenance activity are indicators of the ease of maintenance and rework being investigated. | Changes to the internet-facing FloodWise have been minimal and have taken significant time (6 months) to complete. The condition of the code has played a significant role in the ability to deliver changes in an acceptable timeframe. | Low |
| Technology | The degree to which the application uses current, industry-standard software and complies with architecture standards. | The application is written in Java and hosted on Tomcat under RedHat. Tomcat is not part of Council's technical architecture (Oracle Application Server is preferred). Further, RedHat is not a supported operating system listed in Council's technical architecture. The application database is hosted in Oracle 9.2.0.5.0 on Windows Server 2003. The version of Oracle is obsolete according to Council's standards and is not generally supported on Windows Server. This database is also shared with other City Design systems (WIP). | Low |

| Criteria | Description | Comments | Rating |
|-------------|--|---|--------|
| | | A separate user administration application is written in Java, but hosted using Oracle Application Server. It relies upon a shared Oracle database hosted on HP-UX. | |
| Design | Assesses the flexibility of an application to adjust to changing demands. | There is minimal code separation. Data retrieval, business logic and presentation code are not separated in a layered approach. No service-oriented design. | Low |
| Integration | Assesses the clarity or complexity and number of application interfaces and their impact on business functionality delivery. | Integration is via direct database links only. No loose coupling. No SOA-based integration. | Low |

Table 16: FloodWise SEQ (Internet) Technical Condition Assessment

3 Related Initiatives

This section describes initiatives currently underway that are related to the current flood monitoring activities at Council.

- **Flood Smart Assets** Council is currently examining how it can use flood information to better manage its assets, ensuring they are removed from harm or notified if impacted.
- **Early Warning Alert Provider** Council has recently conducted a tender for the selection of an alert provider. The winning supplier is intended to distribute alerts for floods and other natural disasters.
- **Infrastructure Modernisation Project (IMP)** ISB is implementing a variety of rolling technology upgrades. Given the relatively poor technology condition of the FloodWise platforms, IMP may be able to assist.

4 Peer Scan

While a comprehensive scan of all peer organisations was not able to be conducted within the timeframes of the review, the Strategic Water Information and Monitoring Plans from each state government were consulted. These documents include information on the systems used by the respective state and local government bodies.

The plans showed a combination of systems are used to monitor water and rainfall levels:

- **Hydstra** This is a commercial product used by the majority of state and local government bodies.
- **Enviromon** The BoM product is widely used to monitor sensor readings.
- **Custom Built Systems** A smaller number of organisations rely upon custom-built applications.

5 Market Scan

The following products were identified during a market scan. Information in this section is provided by the vendors.

5.1 Kisters

"Kisters software and hardware telemetry systems are used globally for managing, analysing and reporting surface water, groundwater, stormwater, wastewater, water quality and meteorological data. We provide standard software solutions such as WISKI, the off-the-shelf data management solution. WISKI 7.1.1 supports the popular ORACLE and MSSQL relational model database server platforms. KISTERS high-capacity scalable systems can be tailored to customer and local demands. That is why our software is in operation in Europe and North America as well as the Asian and Pacific regions. Our customers are private companies, from small firms up to well-known multinationals, as well as public administrative authorities."

5.2 Aquatic Informatics

"Aquatic Informatics is a developer of unique productivity software solutions for the rapidly growing water and environmental monitoring industry. It focuses on providing solutions to federal, state/provincial or local government departments, as well as academic groups and consultants who collect and analyse large volumes of water quality or quantity data. Aquatic Informatics' main product, AQUARIUS, provides intuitive software applications that are proven to deliver a 15- to 20-fold improvement in data management efficiency and reliability. AQUARIUS is used by organisations such as Environment Canada, the Canadian National Research Council and the United States Geological Survey."

5.3 ESRI

"ESRI produces geographic information system (GIS) solutions that enable water utilities to manage sustainable systems. Our software helps you operate more efficiently and effectively via enhanced management of assets, customer calls and mobile workforce. Our software provides a common platform for all these functions, which enables applications that monitor and report on operational performance."

Effective floodplain management is a combination of corrective and preventative measures for reducing flood damage. These measures require integrating data from a variety of sources including zoning, subdivision, or building requirements, and special-purpose floodplain ordinances.

ArcGIS Spatial Analyst: Hydrologic Analysis contains specialized tools for working with and deriving new information from hydrologic and landscape information. You can use these tools to generate a flood forecasting model to identify affected parcels to prioritize for remediation or damage assessment.

Arc Hydro tools have been developed for ArcGIS as an effective means for capturing the 3D nature of a channel: physical properties, terrain modeling, riverbed characteristics, vegetation, etc.

With ArcGIS Tracking Analyst, you can analyze time-related data as well as explore trends and phenomena; conduct historical analysis and "what-if" scenarios; and track and monitor events such as excessive rainfall, track water levels, etc."

6 Future State

At this time, no formal future-state business process mapping has been undertaken and no formal business requirements have been finalised, but recent initiatives give some indication of potential future requirements, including:

- **Community Access to Flood Information** Previous initiatives have investigated making near real-time information available to the public. It is assumed that any future solution should facilitate this.
- **Extended Notifications and Alerts** Limited alerts are already issued to pilot locations, but there has been a desire to extend such notification to a broader user base, while at the same time making the alerts more location-specific.
- **Enhanced Asset Monitoring** Projects such as FloodSmart Assets are examining ways in which Council assets may be assessed for flood risk.

7 Solution Options

Given the assessment of the existing systems and the information on the likely future state of flood monitoring at Council, this section presents a number of solution options for consideration.

7.1 Use Bureau of Meteorology Systems

This option proposes decommissioning the existing flood monitoring systems at Council and utilising the information already published by the Bureau of Meteorology.

As discussed in section 4, the Bureau of Meteorology has in place similar sensor monitoring systems. Near real-time water level and rainfall information for South-East Queensland is publicly available on the BoM website for all of the gauges monitored by Council. Information is available in tabular and graphical formats.

Analysis of the data is limited, however, and certain time-series information such as the periods of most intense rainfall is not available – information which is often critical in determining if localised flash-flooding is likely to occur. Alerts issued by the BoM for flooding are generally limited to large-scale river flooding, with no direct email or SMS notification provided.

Consequently, while the BoM website could be used to provide certain information to the public, it is unlikely that it will meet all of Council's needs – particularly for the monitoring of flash flooding and notifications.

7.2 Improve Condition of Existing Systems

Given the existing applications meet the majority of current requirements, the condition of the FloodWise information systems could be improved with a number of actions.

Such incremental improvement, however, is not sufficient to address all of the findings of the audit or this architectural review. Many of the audit findings require that the applications be fundamentally replaced or re-architected. Improvement of the existing systems should therefore be seen as a short-term, interim measure only.

Specifically, this option proposes the following improvements:

- **Migrate to Corporate Data Centres** Many of the existing applications are hosted on PCs at Green Square. These machines have limited physical controls and insufficient redundancy provisions given the importance of their function. This option proposes that the applications hosted on the PCs be moved to newly provisioned servers in the corporate data centre.
- **Provision Dedicated Environments** The existing data processing applications are hosted on two separate PCs. The roles of the PCs, however, are blurred, with certain applications supporting the production environment running on the development PC. When migrating to the corporate data centre, the applications should be appropriately segregated into dedicated production, DR, test and development environments.
- **Upgrade Oracle Database** The existing, shared database is based on Oracle 9i and hosted on a Windows Server. This platform is now obsolete and should be upgraded to the latest, supported database platform at the time (likely to be Oracle 11g on Oracle Linux).
- **Manage Source Code in Corporate System** Source code for many of the FloodWise systems is currently not managed in the corporate source control tool,

PVCS. Revisions and code changes are tracked manually, increasing the risk that the applications could not be rebuilt if lost. A snapshot of the existing source should be added to PVCS and all future changes managed using the tool.

- **Improve FloodWise (Intranet) Security Controls** The existing FloodWise (Intranet) production environment has poor security controls in place. Unauthorised users can make changes directly to the live system. The sharing and file system permissions should be reviewed and updated accordingly.
- **Produce Detailed Technical Documentation** The majority of the existing applications have no technical documentation describing their design. In order to better support the applications in the future, detailed 'as-built' documentation should be commissioned for all the existing applications.

Such short-term enhancements may potentially be funded by a budget review and delivered as an ISB-led project. Indicative cost estimates are provided below with further detail available in Appendix A.

| Description | Indicative Estimate |
|-------------------------------------|---------------------|
| Phase 1: Project Initiation | |
| Phase 2: Planning and Design | |
| Phase 3: Procurement | |
| Phase 4: Implement & Delivery | |
| Phase 5: Project Finalisation | |
| Implementation Sub-Total | |
| Implementation Contingency (at 20%) | |
| Implementation Estimate | |

Table 17: Indicative Estimates for Improvement of Existing Systems

7.3 Use Commercial Replacement

The market scan earlier in the document identified a number of potential commercial software products that could meet a range of existing and future business requirements, particularly in the area of web-based publishing and alerting. A combination of products might also be considered.

This option does not propose a specific vendor or product be selected, but rather that a structured requirements analysis and procurement process be conducted in line with Council's PM2 project methodology.

It is anticipated, however, the commercial product would continue to integrate with BoM's Enviromon product for sensor monitoring and be compatible with Council's existing investment in the ESRI suite of GIS and mapping products.

A potential conceptual architecture is presented in the diagram below.

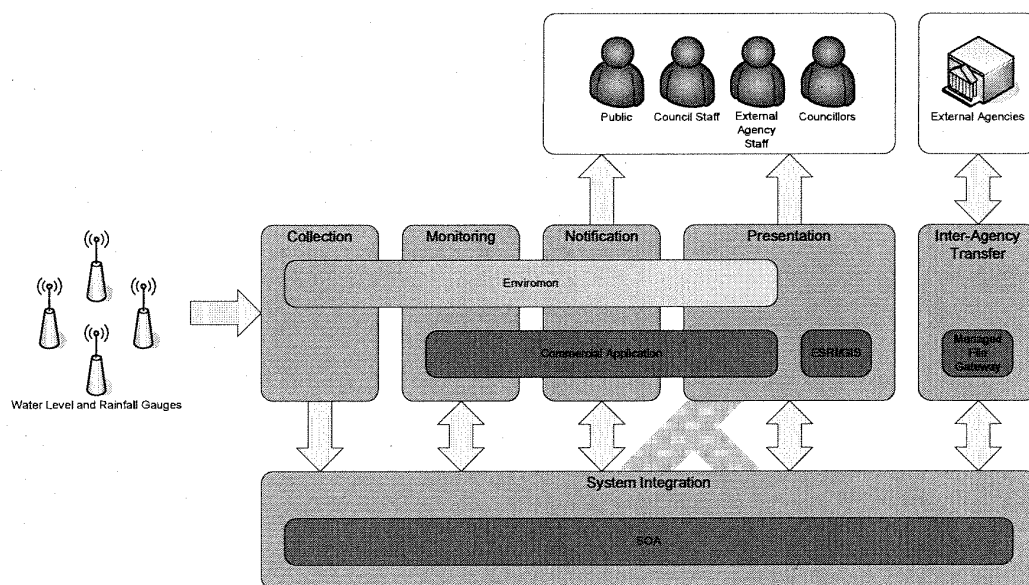


Figure 4: Use Commercial Product Conceptual Architecture

Indicative cost estimates are provided below with further detail in Appendix A.

| Description | Indicative Cost |
|-------------------------------------|-----------------|
| Phase 1: Project Initiation | |
| Phase 2: Planning and Design | |
| Phase 3: Procurement | |
| Phase 4: Implement & Delivery | |
| Phase 5: Project Finalisation | |
| Implementation Sub-Total | |
| Implementation Contingency (at 30%) | |
| Implementation Estimate | |

Table 18: Indicative Implementation Estimates for Commercial Software Replacement

| Description | Indicative Cost |
|--|-----------------|
| Operation (over 5 years) | |
| Operation Contingency (at 30%) | |
| Operation Estimate (over 5 years) | |

Table 19: Indicative Operation Estimates for Commercial Software Replacement

7.4 Develop Custom Replacement

Council's enterprise architecture principles favour acquiring commercial products ahead of developing custom-built applications, but if a commercial product cannot meet the needs of Council, then this option can be reasonably considered.

Given the business importance and scale of the existing systems, a new custom-built application should be developed on Council's enterprise platform of Java and Oracle. And like a commercial replacement, a custom-built system must be compatible with Council's SOA infrastructure and ESRI-based GIS products.

A potential conceptual architecture is shown below.

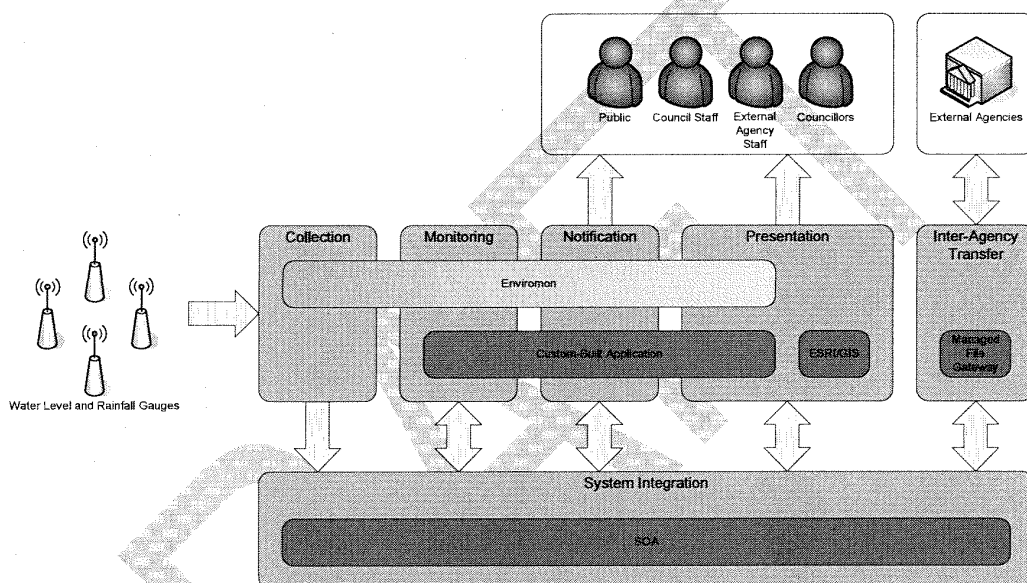


Figure 5: Develop Custom Application Conceptual Architecture

Indicative cost estimates are provided below with further detail in Appendix A.

| Description | Indicative Cost |
|-------------------------------------|-----------------|
| Phase 1: Project Initiation | |
| Phase 2: Planning and Design | |
| Phase 3: Procurement | |
| Phase 4: Implement & Delivery | |
| Phase 5: Project Finalisation | |
| Implementation Sub-Total | |
| Implementation Contingency (at 30%) | |
| Implementation Estimate | |

Table 20: Indicative Implementation Estimates for Develop Custom Replacement

| Description | Indicative Cost |
|--|-----------------|
| Operation (over 5 years) | |
| Operation Contingency (at 30%) | |
| Operation Estimate (over 5 years) | |

Table 21: Indicative Operation Estimates for Develop Custom Replacement

8 Recommendations

In order to begin addressing the findings of the Assurance Services Report, it is recommended that work be undertaken to two stages, with short term improvements made to the existing systems prior to a complete replacement by a commercial software product selected through a structured procurement process.

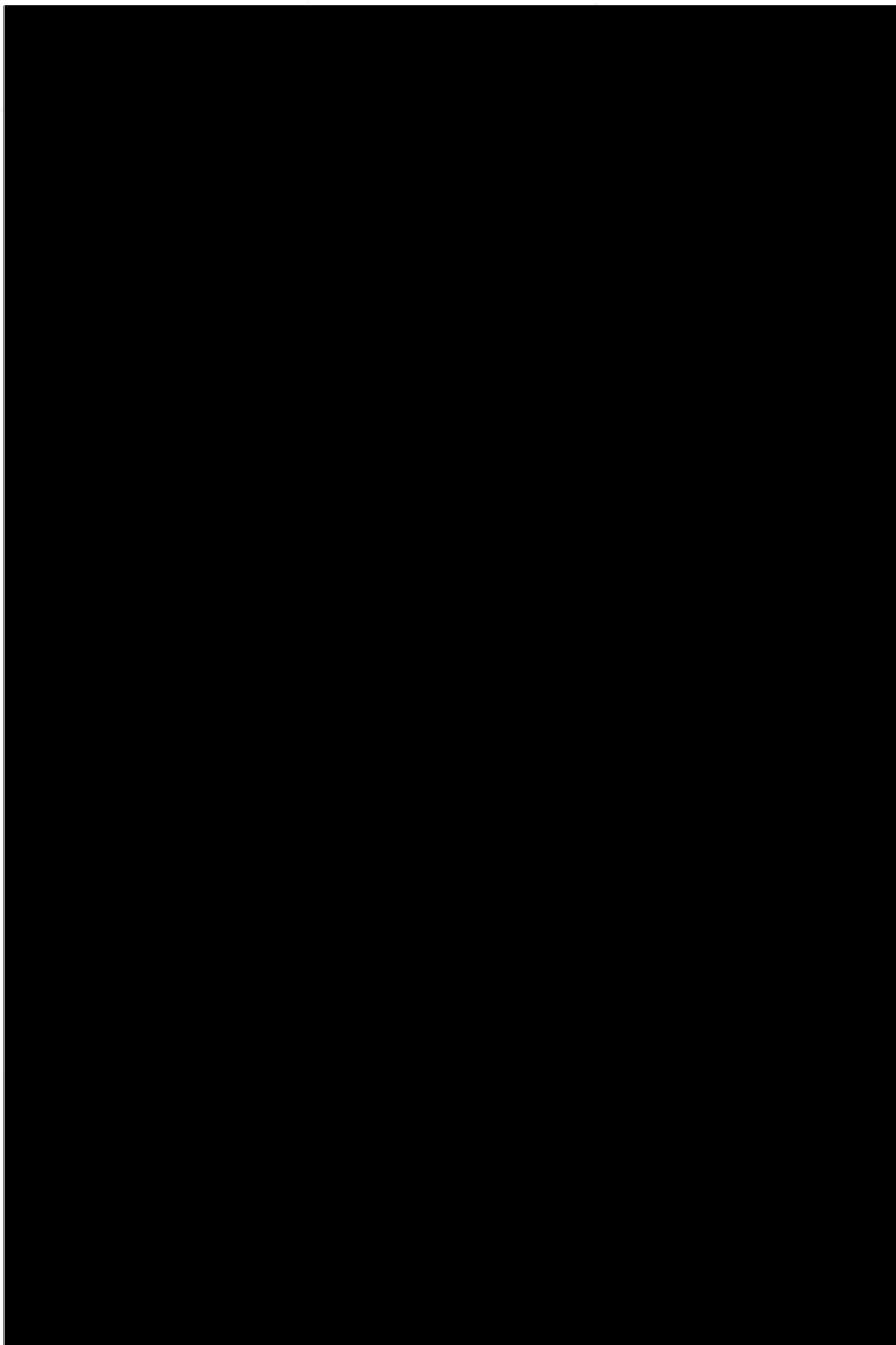
- **Stage 1: Improve Condition of Existing Systems** A number of audit findings can be addressed immediately and a variety of improvements be applied to the existing systems. Such immediate improvements may potentially cost approximately \$216,000 and may be delivered in around three to 5 months. Requests for funding could be made via the budget review process.
- **Stage 2: Use Commercial Replacement** The further audit findings and shortcomings identified by the architecture review cannot be easily addressed without fundamentally changing the existing applications. Given that mature products exist in the marketplace, it is recommended that a commercial software replacement be sought and integrated with Council's existing ESRI-based GIS environment and the BoM's Enviromon product. Such a process may cost in the order of [REDACTED] but could vary significantly depending upon detailed requirements.

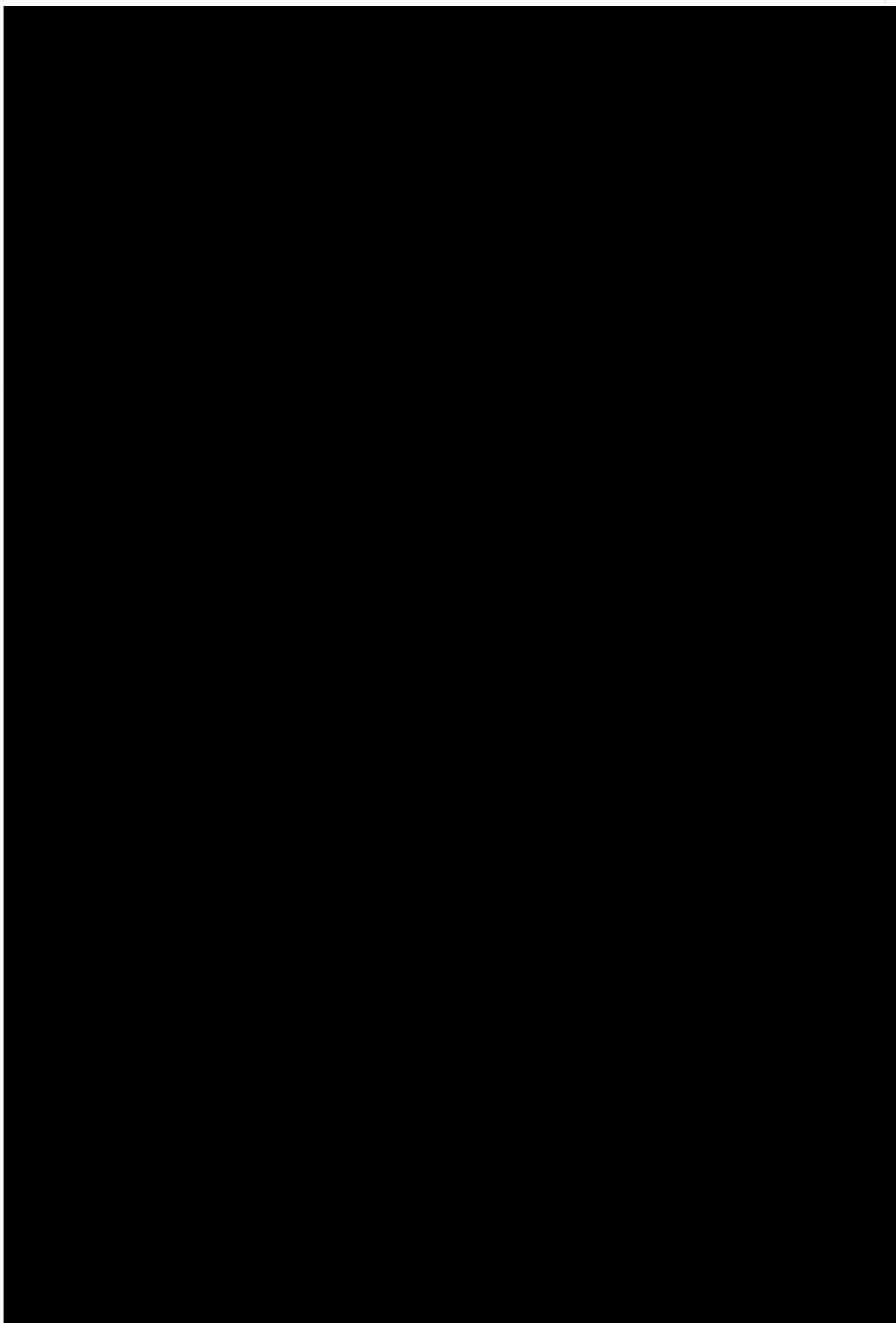
Appendix A Notes on Estimates

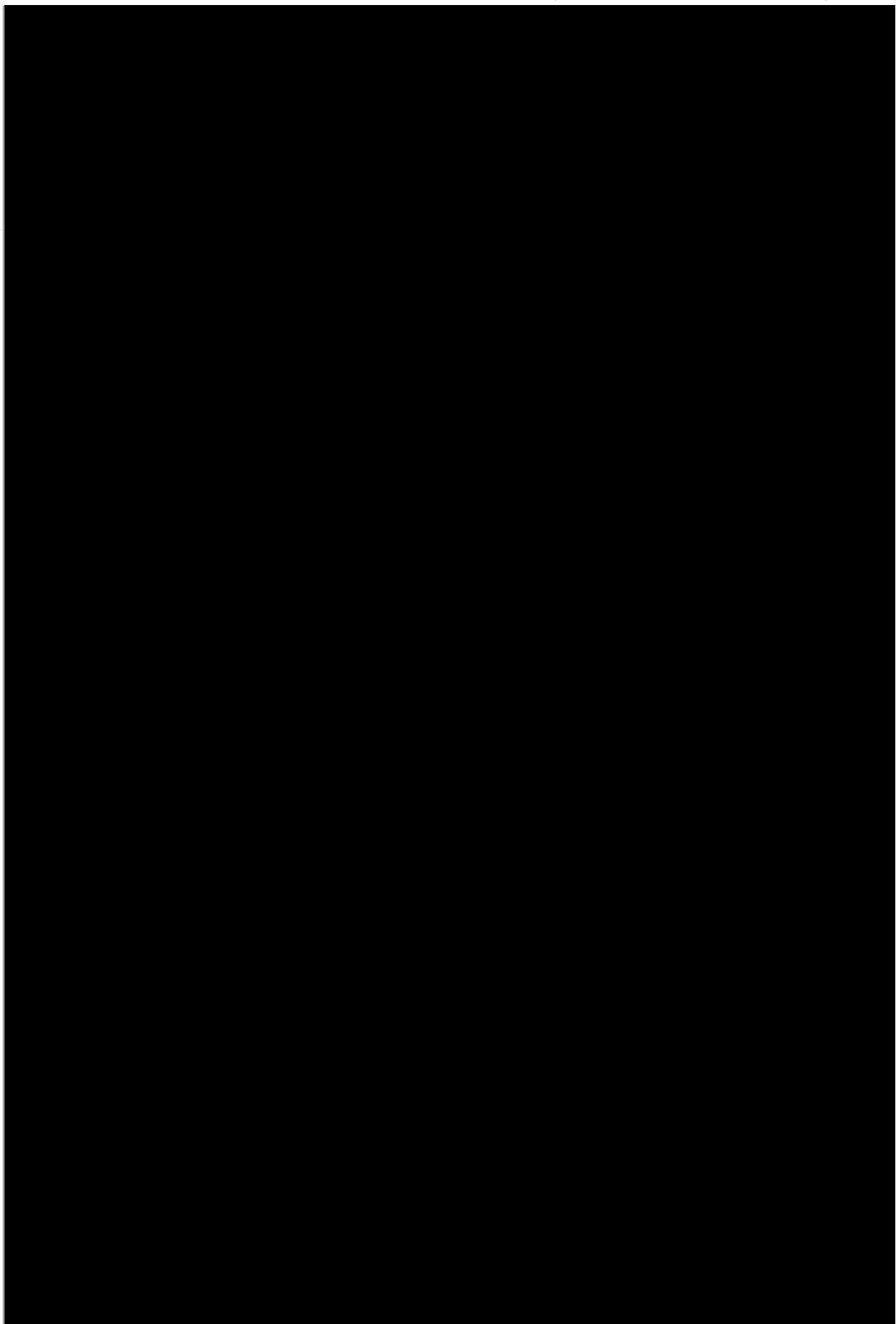
This appendix provides further supporting information on the indicative estimates presented earlier in the document.

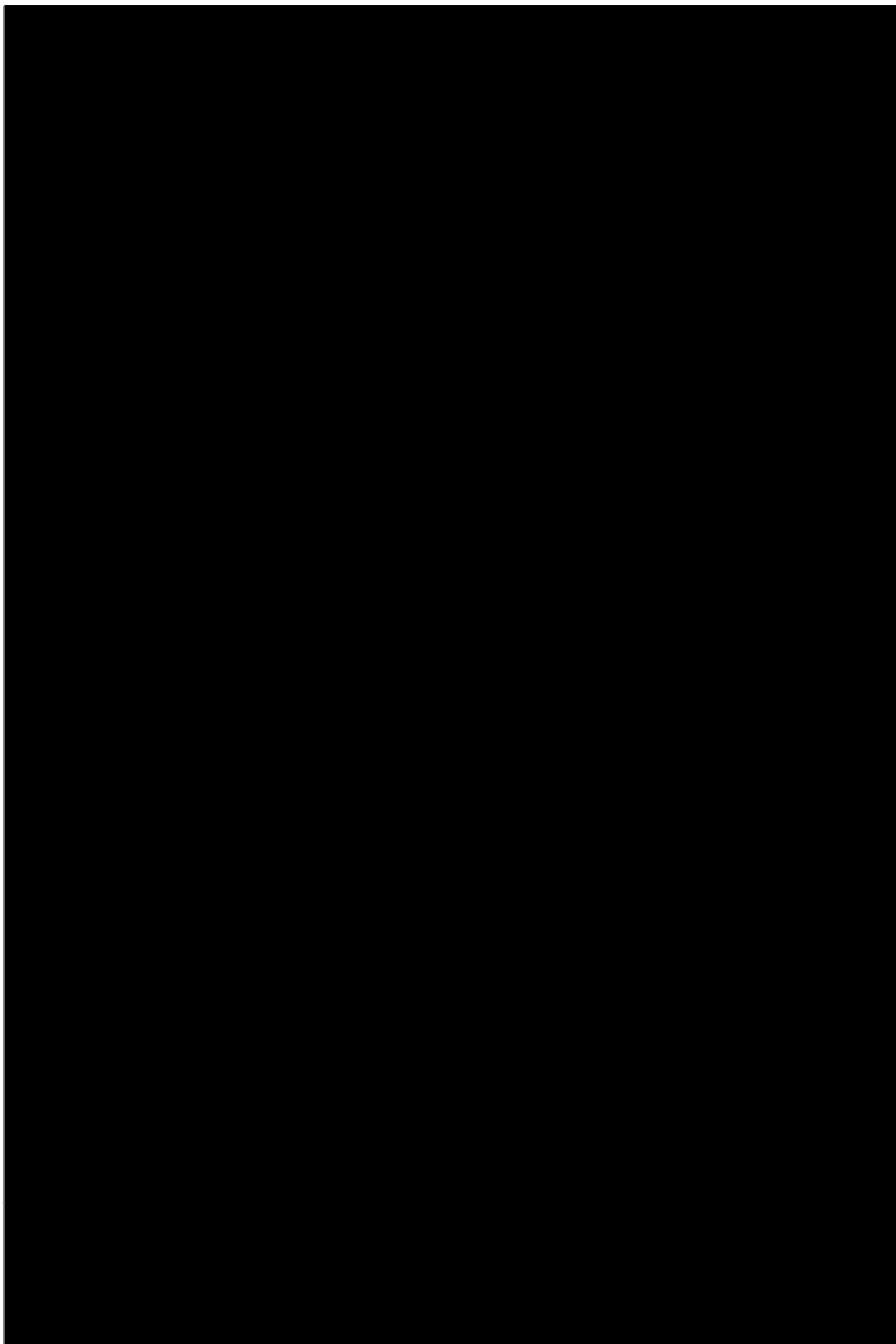
As such, the estimates should be read in the following context:

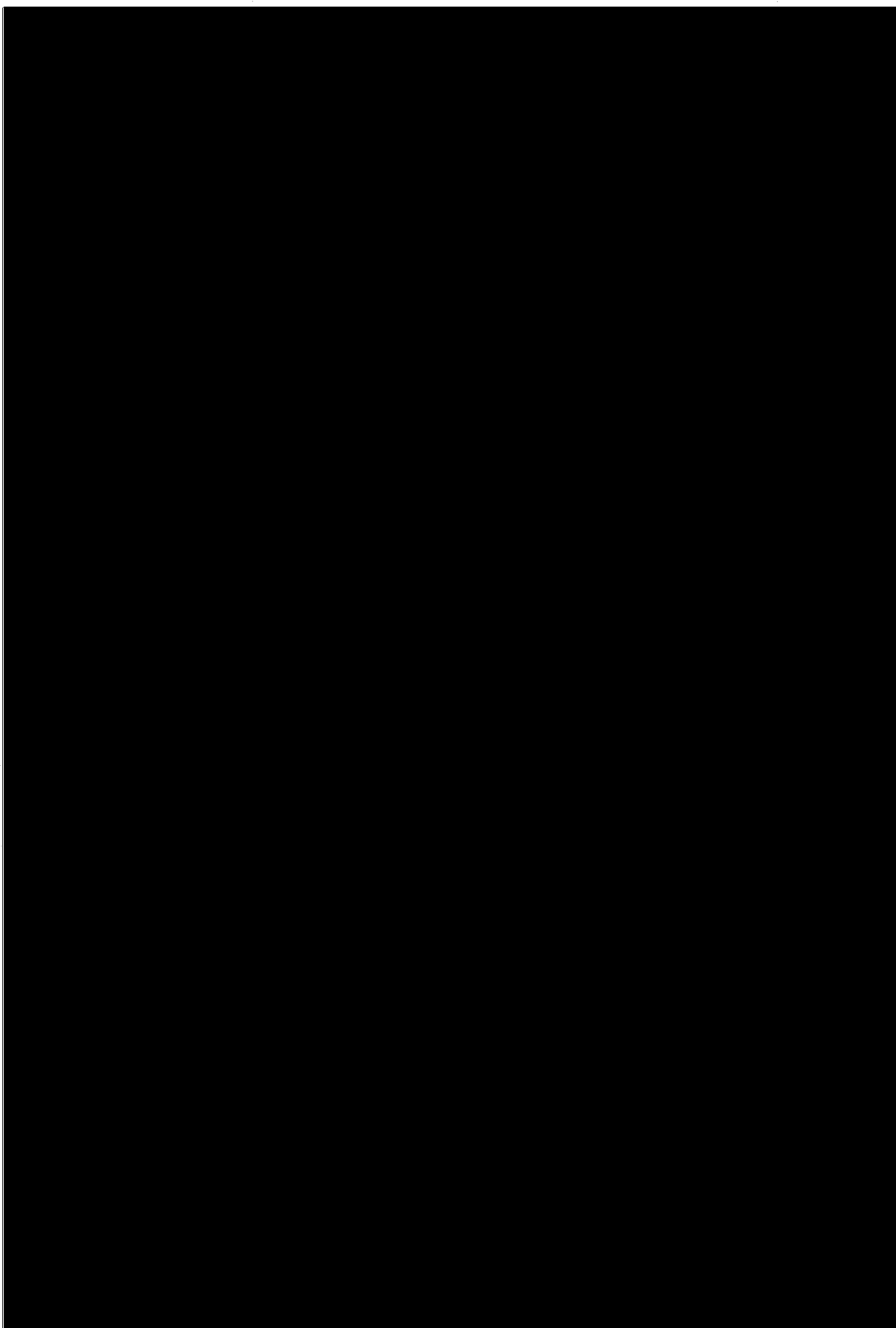
- The estimates included are estimates only, and are not a guarantee that changes can be delivered for amount stated.
- Changes will be delivered following a structured, phased approach following Council's PM2 methodologies.
- Further analysis of business, functional and non-functional requirements remains necessary and may have a significant impact on the estimates provided.
- Estimates include significant levels of contingency (20% to 30%).
- Changes to the assumed requirements may require re-consideration of the recommendations presented in this document.

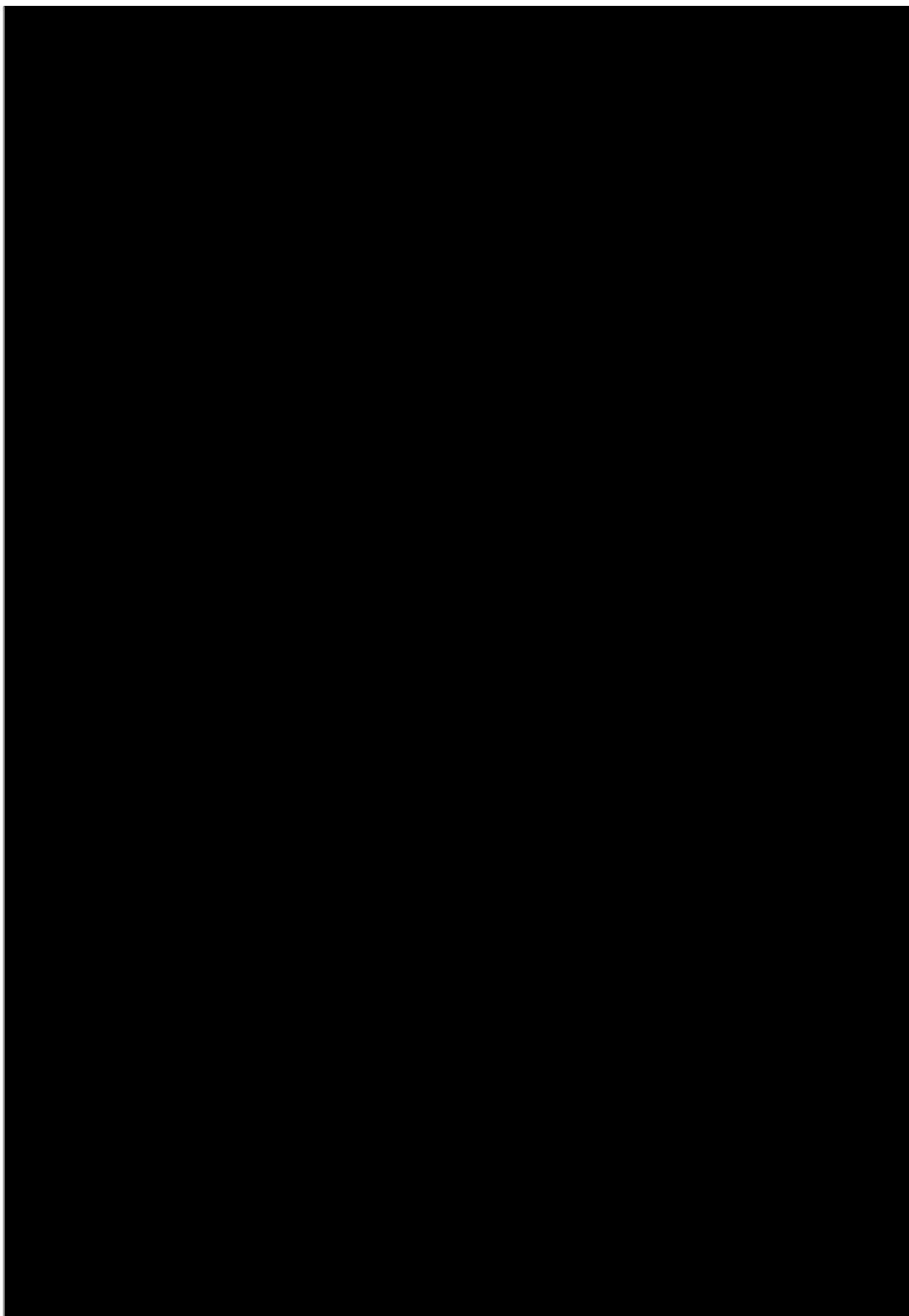


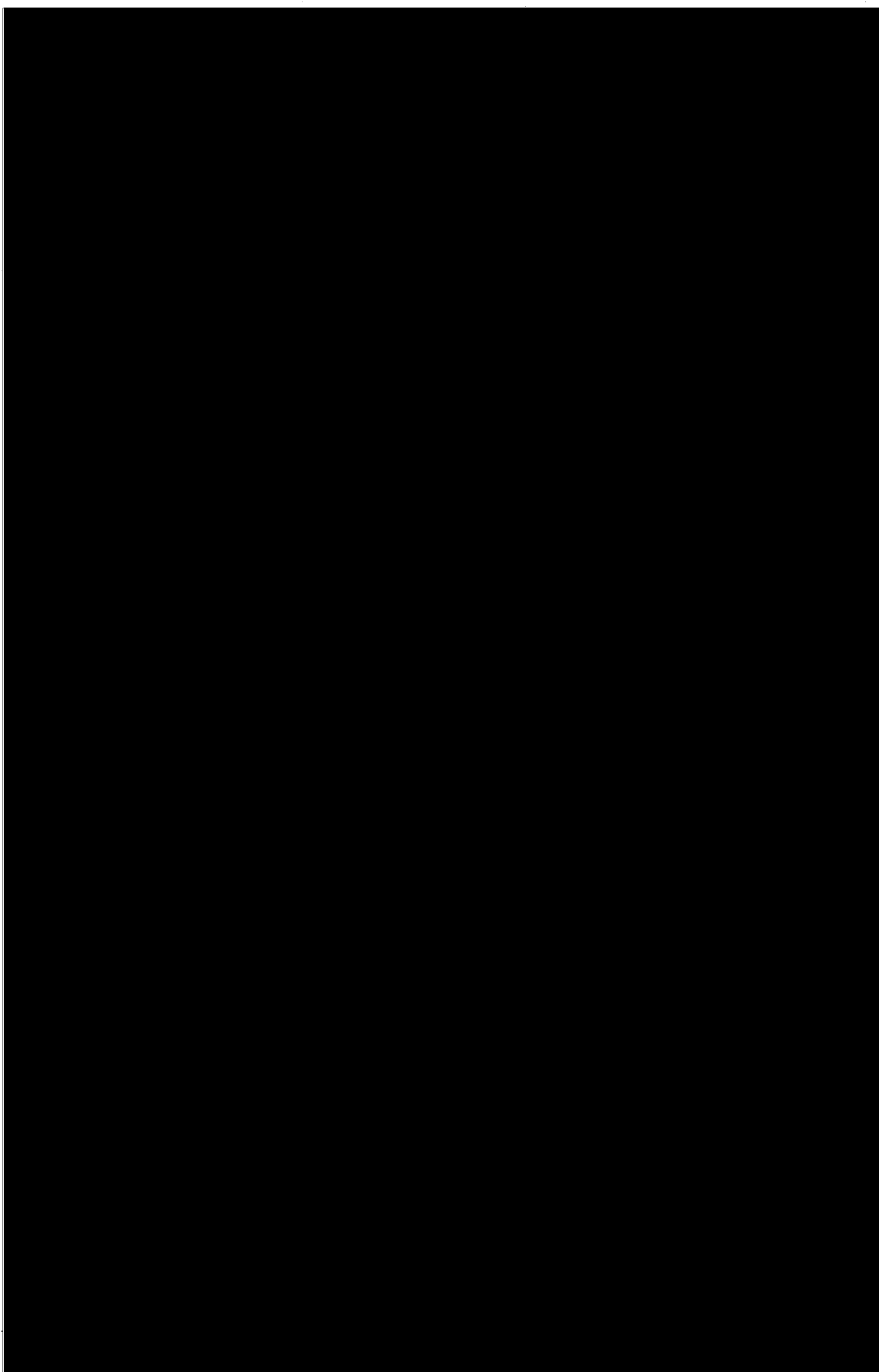












"KJM-14"



Brisbane City Council FloodWise Property Report

Report Reference

1050873

27/10/2010 11:25:49

Dedicated to a better Brisbane

The FloodWise Property Report is a free report to inform Brisbane residents and professionals about flood risks for a specified lot or property so they may better prepare for flooding and to plan and build in accordance with Council requirements.

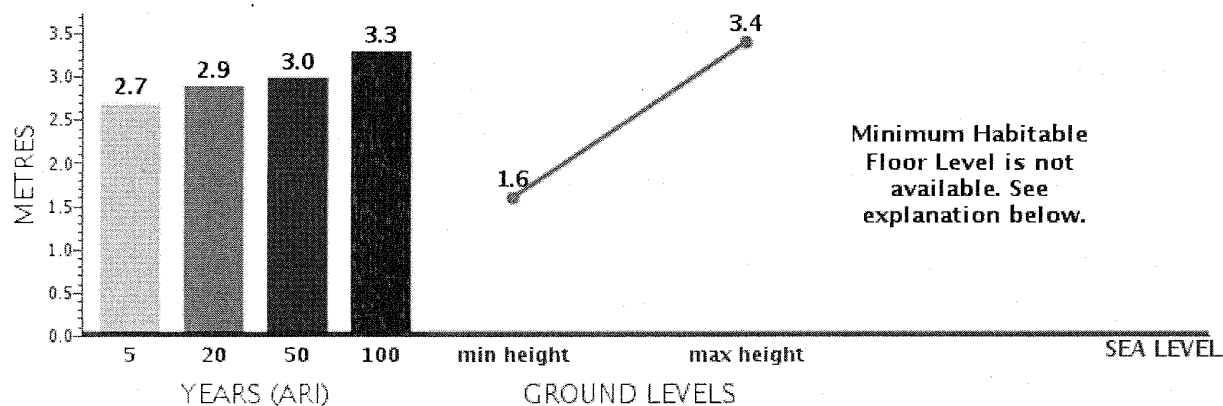
To find out more about how the contents of this report may affect your ability to build or renovate, as well as Council advice on how to protect your property and family by being FloodWise, visit www.brisbane.qld.gov.au, a Customer Service Centre or call (07) 3403 8888.

PROPERTY DETAILS:

Address:

Lot Details:

FLOOD LEVEL INFORMATION



Flood Levels

The blue bars in the graph above show the height of flooding estimated to occur on average once every 5, 20, 50 and 100 years at this address or lot.

Ground Levels (Min - Max)

The line above shows this property's lowest and highest ground levels. Confirm with a surveyor.

Minimum Habitable Floor Level

If a property is in an overland flow path or a large allotment a minimum habitable floor level cannot be provided. See flood and property flag information over page.

For a detailed summary of anticipated flood levels and flags see technical summary over page.

HIGHEST SOURCE OF FLOODING

CREEK/WATERWAY The highest source of flooding affecting this property originates from a creek or waterway. For more information about flooding in your area you can view and download Council's Flood Flag Maps by visiting www.brisbane.qld.gov.au/floodmap

FLOOD AND PROPERTY DEVELOPMENT FLAGS

Current records indicate this property may be affected by one or more flood or property development flags. Please review the technical summary over page for more detail.

Technical Summary

Use this summary to supply information about this property to surveyors, builders, certifiers, architects and engineers who may request this FloodWise Property Report. This summary has been designed to be easily read if scanned or faxed.

Property Details

Address:

Lot Details:

Flooding Information

| | |
|-------------------------------------|----------------|
| Minimum Ground Level (AHD) | 1.6 m |
| Maximum Ground Level (AHD) | 3.4 m |
| Highest Defined Flood Level (DFL) | 3.3 m |
| Highest Flooding Source | CREEK/WATERWAY |
| Minimum Habitable Floor Level (AHD) | N/A |

Predicted Peak Flooding Levels (ARI)

| Years | Level (AHD) | Source |
|------------|-------------|----------------|
| 5 | 2.7 m | CREEK/WATERWAY |
| 20 | 2.9 m | CREEK/WATERWAY |
| 50 | 3.0 m | CREEK/WATERWAY |
| 100 or DFL | 3.3 m | CREEK/WATERWAY |

Flooding may also occur from:

STORM TIDE, OVERLAND FLOW

Flood and Property Development Flags

Overland Flow Path

Mapping indicates this property is in an overland flow path. Overland flow is the excess run-off during high rainfall events that travels overland following low-lying, natural drainage paths. Such flooding commonly occurs when underground drainage exceeds capacity. It is recommended you consult a Registered Professional Engineer of Queensland to determine this property's habitable floor level and flooding depth.

Waterway Corridor

This property is located within a waterway corridor. A waterway corridor is a defined area along waterways (including rivers, creeks or creek tributaries), designed to protect water flow, water quality, biodiversity and recreation values. The potential to build or extend a home situated within a waterway corridor is restricted. For further information, contact the Development Assessment Customer Liaison Officer on (07) 3403 8888.

Large Allotment

This property is a Large Allotment of over 1000 square metres. The Defined Flood Level (DFL) generally refers to the maximum height that flood water may reach, however flood levels may vary significantly across allotments of this size. Further investigations may be warranted in determining the variation in DFL and the minimum habitable floor level across this site. For more information or advice, it is recommended you engage a Registered Professional Engineer of Queensland.

Disclaimer

- 1 Defined flood levels are determined from the information available to Council at the date of issue. The defined flood level for a particular property may change if more detailed information becomes available, or changes are made in the method of calculating flood levels.
- 2 For these reasons, Council makes no warranty or representation regarding the accuracy or completeness of a FloodWise Property Report. Council disclaims any responsibility or liability in relation to the use or reliance by any person on a FloodWise Property Report.

Useful Definitions

Australian Height Datum (AHD) – The reference level for defining ground levels in Australia. The level of 0.0m AHD is approximately mean sea level.

Average Recurrence Interval (ARI) – The probability of experiencing a flood of a particular magnitude. ARI can be interpreted in terms of years (frequency). ARI levels quoted in this report are measured in height above sea level (AHD).

Defined Flood Level (DFL) – The flood level associated with a defined flood event. Commonly, the standard used is the 100 year ARI. For further information refer to the House Code in Brisbane City Plan 2000, specifically Table 1: House Flood Immunity Levels for residential property.

Maximum and Minimum Ground Level – Highest and lowest ground levels on the property based on available ground level information. A Registered Surveyor can confirm exact ground levels.

Minimum Habitable Floor Level – The minimum level above sea level at which habitable areas of development (generally including bedrooms, living rooms, kitchen, study, family and rumpus rooms) must be constructed.

City Plan 2000 – City Plan 2000 sets out what you can build and where new development should go. Council assesses proposed new development against the City Plan 2000.

Find Out More

Whether you are building, buying, renting or preparing your property for flooding, obtaining a FloodWise Property Report is the first step in determining your property's flood risk. Council's 'Be FloodWise' series of publications can assist you to plan ahead, respond to and recover from flooding. They are available online at: <http://www.brisbane.qld.gov.au/floodwise> or by phoning Brisbane City Council on (07) 3403 8888.

The 'Be FloodWise' publications include:

Preparing for Flooding

Assess your flood risk, prepare for and respond to, flood events.

Be FloodWise - A guide for residents

Buying / Renting

Assess the flood risk of a property before making a decision to rent or buy.

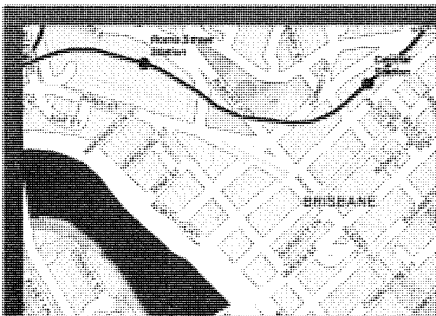
Buying and renting fact sheet

Building or Renovating

Renovations around your home or business can impact on your flooding exposure. Ensure your house meets City Plan 2000 flood immunity

Building and renovating fact sheet

If you are planning to renovate or build, Council recommends you engage a Registered Professional Engineer of Queensland to undertake a thorough assessment of all flood risks specific to the property.



Get a Free Flood Flag Map

Find out more about predicted flooding in your suburb or area by downloading a free Flood Flag Map. The map shows overland flow paths and where flooding may occur from creeks, rivers and storm tides on a suburb scale.

For more information visit www.brisbane.qld.gov.au/floodmap or visit a Council Customer Service Centre

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FloodWise Property Report

Brisbane experiences naturally high annual rainfall with a landscape that makes some areas at risk of flooding. Brisbane City Council's FloodWise Property Report shows the risk and type of flooding at a property and how high the water may reach.

Changes to flood levels

Following the floods in January 2011 in Brisbane, Council is in the process of adopting an Interim Residential Flood Level for residential development. Find out more about [changes to flood standards](#) for residential development.

DISCLAIMER - FloodWise Property Report

The current FloodWise Property Report does not represent the proposed Interim Residential Flood Level for new residential development. Council is currently working to update its flood information tools and systems including the Flood Flag Map and FloodWise Property Report to reflect the Interim Residential Flood Level when it comes into effect following endorsement by the Queensland Government. This is expected during May 2011.

The Interim Residential Flood Level will apply to new residential developments in flood-affected areas. This means that new homes in these areas may have to be built higher than current standards, depending on where the property is located along the river. For rebuilding on a 'like for like' basis, the Interim Residential Flood Level should be taken into consideration.

Council will also use the Interim Residential Flood Level to guide the location of essential services in new residential and commercial buildings in flood-affected areas.

The FloodWise Property Report is based on available information and Council is unable to provide a warranty or representation that the FloodWise Property Report will be accurate for future flood levels. Council disclaims any responsibility, liability or omission, arising in connection with or in relation to the use or reliance by any person on the FloodWise Property Report.

The FloodWise Property Report shows the risk and type of flooding at a property and how high the water may reach in various circumstances.

Free FloodWise Property Report

The flood information provided in the FloodWise Property Report is sourced from Council flood studies and models undertaken for the river, and our major creeks and waterways. It is designed so residents and professionals can assess the estimated flood risk of a property. This will allow you to make informed decisions when buying, renting, building or renovating, as well as adhere to Council building regulations. [Download your free FloodWise Property Report.](#)

If you need a report mailed, faxed or emailed to you:

- [contact Council](#), or
- visit a [Regional Business Centre](#) or [Customer Service Centre](#)

Have your say

Complete a survey and [tell us what you think](#) of the new look FloodWise Property Report.

FloodWise Property Report information

Depending on the flood risks associated with a property, the report may include the following:

- source of flooding including river, creek, defined overland flow or storm tide
- estimated flood levels
- minimum and maximum ground levels
- minimum habitable floor level for building and development
- whether a property is located within a waterway corridor or is a large allotment, that is, over 1000 square metres

Consider flooding when building or renovating

In the presence of flooding, your ability to renovate or build on a property may be affected. To learn more you can read Council's [Brisbane City Plan 2000](#), consult a Registered Professional Engineer of Queensland, or [contact Council](#).

The report does not provide details of stormwater pipes on the property. These can be obtained from a [Customer Service Centre](#).

To [build over stormwater](#), you must lodge an application to Council for assessment.

If a property is a large allotment or within an overland flow path, Council is unable to supply a minimum habitable floor level on the report. In this situation, we recommend you contact a registered professional engineer to determine the minimum habitable floor level for a specific property.

Council has standards that developers must follow when seeking to [develop in flood prone areas](#).

More information

Review the [frequently asked questions](#) about FloodWise Property Reports.

If you have further questions on the report, [contact Council](#).

Let us know what you think of our new look FloodWise Property Report by [completing the survey](#).

Related information [Early Warning Alert Service](#) [Engineers Australia website](#) [Flood Flag Map](#) [FloodWise publications](#) [Voluntary Home Purchase Scheme](#) [Queensland Reconstruction Authority's 2010 - 2011 interim flood lines](#)

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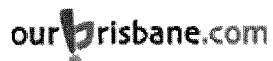
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Flood Flag Map

Brisbane City Council has developed the Flood Flag Map to provide residents with information on flooding in Brisbane. The map shows overland flow paths and where flooding may occur from creeks, rivers and storm tides.

Changes to flood levels

Following the floods in January 2011 in Brisbane, Council is in the process of adopting an Interim Residential Flood Level for residential development. Read more about the [changes to flood standards](#).

DISCLAIMER - Flood Flag Map

The current Flood Flag Maps do not represent the proposed Interim Residential Flood Level for new residential development. Council is currently working to update its flood information tools and systems including the Flood Flag Map and FloodWise Property Report to reflect the Interim Residential Flood Level when it comes into effect following endorsement by the Queensland Government. This is expected during May 2011.

The Interim Residential Flood Level will apply to new residential developments in flood-affected areas. This means that new homes in these areas may have to be built higher than required by current standards, depending on where the property is located along the river. For rebuilding on a 'like for like' basis, the Interim Residential Flood Level should be taken into consideration.

Council will also use the Interim Residential Flood Level to guide the location of essential services in new residential and commercial buildings in flood-affected areas.

Flood Flag Maps are based on available information and Council is unable to provide a warranty or representation that Flood Flag Maps are accurate for future flood levels. Council disclaims any responsibility, liability or omission, arising in connection with or in relation to the use or reliance by any person on the Flood Flag Maps.

Flood Flag Maps

The maps have been designed to suburb scale. Zooming to an individual lot will distort the detail of the map. The map is a reference guide only and should not be used in place of advice from a registered professional engineer.

Download your Flood Flag Map:

Flood Flag Map Drop-Down - 84870

Select a Suburb Map

View Map

Adobe Acrobat message - 54049

You can download the latest version of [Adobe Reader](#) for free.

Many of the PDF documents are maps and images which are inaccessible to website assistive technologies. Should you require assistance to access this information [contact Council](#).

The Flood Flag Map provides a general overview of various flood sources in Brisbane. What do you think of the Flood Flag Map? Complete a [quick survey](#) and tell us what you like and what you think we can improve on.

Flood Flag Map User Guide

Use the [Flood Flag Map User Guide](#) for help understanding your Flood Flag Map.
Related information [FloodWise Property Report](#) [Voluntary Home Purchase Scheme](#) [Queensland Reconstruction Authority's 2010 - 2011 interim flood lines](#)

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 - [Parking](#)
- [Traffic updates and road works](#)

Payments

- [Rates](#)
- [Pet registration renewal](#)
 - [Infringements](#)
 - [Other bills](#)
 - [Parking fines](#)

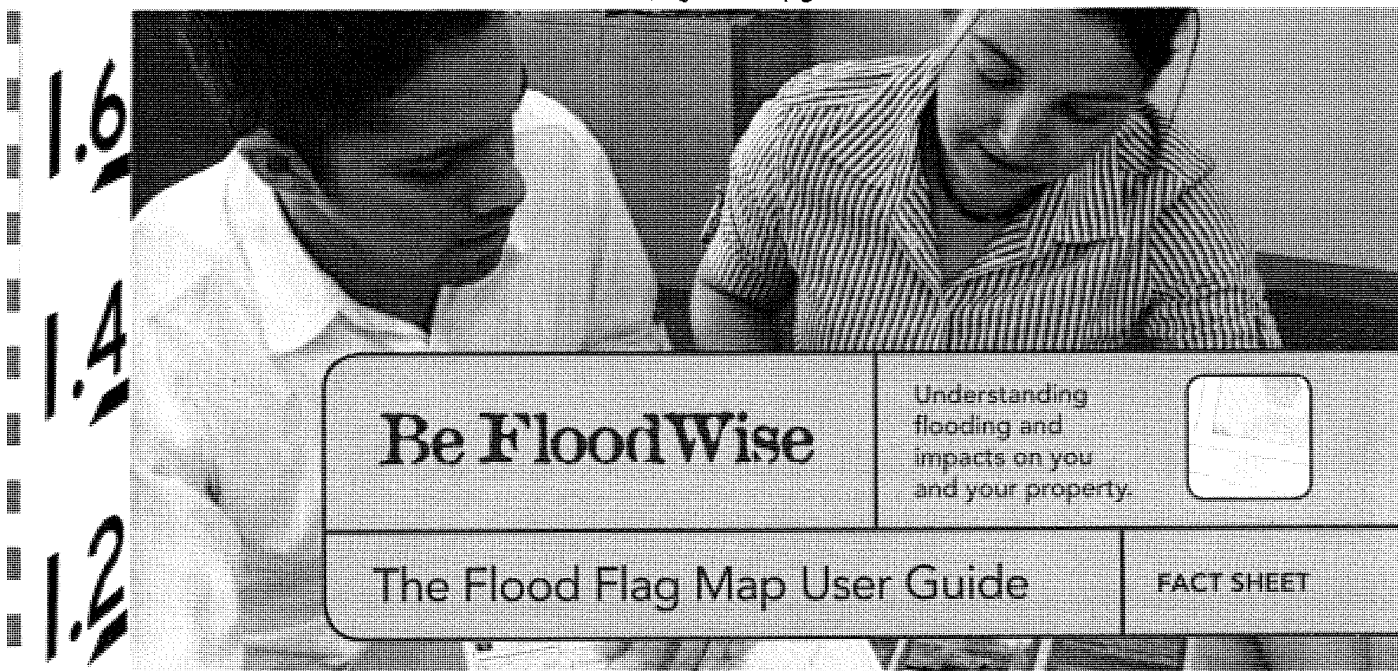
Planning & Building

- [City Plan 2000](#)
- [Local Plans](#)
- [Planning for a growing city](#)
- [Planning and Building rules](#)
 - [Tools and forms](#)
 - [RiskSMART](#)

Other Council Initiatives



"KJM-14C"



The Flood Flag Map shows all known sources of flooding in Brisbane.

The maps are a key recommendation of the Lord Mayor's Task Force on Suburban Flooding that was set up in 2005. Brisbane City Council has mapped potential flooding areas, including overland flow paths*. This gives Brisbane residents access to free and reliable flood information to be better prepared and reduce the effects of flooding to them.

The Flood Flag Map User Guide is provided to assist you to understand your Flood Flag Map.

What is a Flood Flag Map?

Detailed flood mapping of many parts of the city has been available for some time. New technology has allowed Council to develop computer generated mapping of the flooding that may occur in areas that had not previously been studied. This includes some waterways as well as overland flow paths.*

The Flood Flag Map builds on existing knowledge and information and uses computer generated mapping to show areas that may flood in a period of intense rainfall or extreme storm events.

While the Flood Flag Map indicates an area where flooding may occur, it is important to remember that this may happen on average once every fifty to a hundred years.

The map can help you understand possible flooding risks to your property and provides you with information for better planning, building and development.

*What is an overland flow path?

An overland flow path is the path taken by excess water which concentrates in surface depressions, yards and gullies as it flows down roads and laneways to parks and creeks. Overland flow flooding tends to happen after a period of intense rainfall and affects localised areas, rather than the whole city at once.



Dedicated to a better Brisbane

Understanding the Flood Flag Map

STEP 1: Find your suburb and look for your property on the map.

You can get a copy of your Flood Flag Map by downloading one from www.brisbane.qld.gov.au/floodmap or by calling Council on (07) 3403 8888. The Flood Flag Map shows streets, rivers and creeks and may show yellow and blue shaded areas as well as green park land.

STEP 2: Determine if your property is within a yellow or light blue shaded area.

If your property is within either of these shaded areas, it may be at risk of flooding.

If your property is located within the light blue shaded area:

The light blue shading indicates a possibility of flooding from creek, river or tidal sources. The mapping shows areas affected by these sources that may flood in an extreme rainfall event.

If you would like more information get a free and instant FloodWise Property Report at www.brisbane.qld.gov.au/floodwise or contact Council on (07) 3403 8888.

Information on other shaded areas on the map:



The dark blue shading indicates waterways and rivers



The green shaded area represents park land. It is natural for flooding to occur in these areas.

If your property is located within the yellow shaded area:

The yellow shading also indicates a possibility of flooding. This computer generated mapping now allows us to show the predicted path of existing overland flow.

The yellow shaded area is only an indicator of the path excess water may take to run towards lower areas during and after heavy rainfall. Properties within these shaded areas may flood in an extreme rainfall event.

If you require more information please check the Flooding in Brisbane Fact Sheet at www.brisbane.qld.gov.au/floodwise or contact Council on (07) 3403 8888. If you require advice on the anticipated depth of the overland flow path to your property, you should consult a Registered Professional Engineer of Queensland.

What do I need to do if my property is within either of these shaded areas?

You do not need to do anything immediately. The mapping has been provided to allow you to be better informed about the existing risks of flooding in Brisbane. However, as your property may be affected by flooding at some point, you should take appropriate steps to protect your property and valuables.

STEP 3: Be prepared

Please be aware that major flooding events, although rare, will occur again in the future. Being prepared and better informed is the best way for us to protect our property and our families.

Council produces a number of helpful guides on how to Be FloodWise. If you have any further questions, please visit www.brisbane.qld.gov.au/floodwise, call Council on (07) 3403 8888 or email Council at floodmap@brisbane.qld.gov.au.

If you intend to build or develop your property it is recommended that you seek advice from Council or a Registered Professional Engineer of Queensland.

Council is unable to recommend individual engineers or engineering firms - you should refer to the Yellow Pages under **Engineers - Consulting** for contact details. To check if an engineer is registered, please contact the Board of Professional Engineers of QLD on (07) 3225 6032 or visit www.bpeq.qld.gov.au. Engineers Australia also has a list of Registered Professional Engineers www.engineersaustralia.org.au.

Brisbane City Council
Information
GPO Box 1434
Brisbane Qld 4001

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For more information
visit www.brisbane.qld.gov.au
or call (07) 3403 8888

"KJM - 15"

Bender 14 #

Page 1 of 1

Flood_Information_Centre - FIC SITREP 13/01/2011 4:30AM

From: Flood_Information_Centre
To: DM DutyOfficers; LDCC
Date: 13/01/2011 4:39:54 am
Subject: FIC SITREP 13/01/2011 4:30AM
CC: FIC-Standby-Duty-Officers; Flood_Information_Centre

Attached is the FIC SITREP for 4:30AM 13/01/2011.

This is based on a peak of the city gauge at 4.6m and our latest advice from the BOM. The peak at the city gauge is yet to be officially declared and will take some time to confirm as the river levels remain steady and then eventually fall.

Summary of Information.

- Latest prediction of flood peak as advised by the BoM is 4.6 m AHD at the Brisbane City Gauge on Thursday 13/01/2011.
- Predicted peak discharge at Brisbane City gauge is approximately 8000 m3/s at the peak on Thursday.
- High tides on Thursday are at approximately 4am and 4pm.

Please note the total flooded properties is now estimated at approximately 15,270 including 11,879 residential properties. The above count is for property flooding not house flooding.

The residential includes anywhere that houses people so includes hospitals and nursing homes, units, etc. One hospital only counts as one property. Commercial includes shops, industrial, offices - anywhere with a building but not where people residing. It does not include vacant land or structures, this is in other.

As discussed, the residential numbers will include individual units in multi-unit dwellings - so multiple properties per lot.

Please refer to the 8,000 m3/s 'pre-cooked' maps which have been issued to the FIC Liason Officer at the LDCC.

Actual mapping of the predicted flood inundation is being prepared by Spatial Information Services this morning.

Regards
 JamesC
 FIC Controller



Created: 13/01/2011 03:30AM

4.6 mAHD @ Brisbane City Gauge on Thursday 4:00AM

Current FIC Controller: James Charalambous
Current FIC Ass. Controller: Belinda Chapman
Current FIC Bender: Trent Laves

Flooded Properties Summary



Forecast Profile

VIEW Cell Profile Number 3

Forecast for 13/01/2011 4:00:00 AM

13/01/2011 3:30:00 AM

13/01/2011 3:30:00 AM

13/01/2011 3:30:00 AM

| Property Status | Property Count | Flood Count | Flooded |
|-------------------|----------------|-------------|---------|
| Commercial | 2450 | 0 | Yes |
| Other | 893 | 0 | Yes |
| Residential | 11879 | 28082 | Yes |
| Partially Flooded | 2450 | 0 | Yes |
| Partially Flooded | 1250 | 0 | Yes |
| Partially Flooded | 14605 | 33685 | Yes |

4.6 mAH @ Brisbane City Gauge on Thursday 4:00AM

Record: 14 of 6

Note: property count includes strata title counts



Top Flooded Suburbs

| Suburb | Flooded | Count | Peoples | Yes |
|-----------------|---------|-------|---------|-----|
| ST LUCA | Flooded | 1359 | 2358 | Yes |
| WEST END | Flooded | 1189 | 2784 | Yes |
| ROCKLEA | Flooded | 1184 | 1827 | Yes |
| GRACEVILLE | Flooded | 1144 | 1463 | Yes |
| CHELMER | Flooded | 844 | 1559 | Yes |
| CHELMER | Flooded | 837 | 1456 | Yes |
| CIXLEY | Flooded | 837 | 1284 | Yes |
| FAIRFIELD | Flooded | 572 | 1111 | Yes |
| TOOWONG | Flooded | 514 | 1049 | Yes |
| SOUTH BRISBANE | Flooded | 500 | 830 | Yes |
| NEW FARM | Flooded | 493 | 779 | Yes |
| YERONGA | Flooded | 484 | 1015 | Yes |
| MILTON | Flooded | 457 | 306 | Yes |
| SHERWOOD | Flooded | 360 | 511 | Yes |
| JINDALEE | Flooded | 348 | 883 | Yes |
| TENNYSON | Flooded | 328 | 701 | Yes |
| AUCHENFLOWER | Flooded | 306 | 629 | Yes |
| SINNAMON PARK | Flooded | 294 | 832 | Yes |
| ARCHERFIELD | Flooded | 249 | 278 | Yes |
| WINDSOR | Flooded | 243 | 425 | Yes |
| TARONGA | Flooded | 243 | 585 | Yes |
| WESTLAKE | Flooded | 242 | 635 | Yes |
| FIG TREE POCKET | Flooded | 238 | 591 | Yes |
| INDOOROPILLY | Flooded | 229 | 444 | Yes |
| NEWSTEAD | Flooded | 217 | 10 | Yes |
| SUMNER | Flooded | 204 | 58 | Yes |
| BULimba | Flooded | 194 | 382 | Yes |
| CORINDA | Flooded | 190 | 425 | Yes |
| COOPERS PLAINS | Flooded | 182 | 85 | Yes |
| ALBION | Flooded | 180 | 67 | Yes |
| NORMAN PARK | Flooded | 150 | 242 | Yes |
| PADDINGTON | Flooded | 142 | 273 | Yes |
| KENMORE | Flooded | 140 | 338 | Yes |
| EAST BRISBANE | Flooded | 135 | 174 | Yes |
| COORPAROO | Flooded | 108 | 158 | Yes |
| BELLBOWRIE | Flooded | 107 | 248 | Yes |
| YERONGPILLY | Flooded | 91 | 77 | Yes |
| ST. LOUIS | Flooded | 87 | 59 | Yes |

Note: property count includes strata title counts

Refer to attached Excel document



Top Partially Flooded Suburbs

| Suburb | Property Status | Properties | People | Selected |
|------------------|-------------------|------------|--------|----------|
| ▶ SOUTH BRISBANE | Partially Flooded | 2107 | 3849 | Yes |
| BRISBANE CITY | Partially Flooded | 1940 | 3251 | Yes |
| NEW FARM | Partially Flooded | 859 | 1460 | Yes |
| WEST END | Partially Flooded | 683 | 1226 | Yes |
| KANGAROO POINT | Partially Flooded | 658 | 1273 | Yes |
| ST LUCIA | Partially Flooded | 651 | 1464 | Yes |
| TOOWONG | Partially Flooded | 580 | 1228 | Yes |
| BULimba | Partially Flooded | 570 | 1176 | Yes |
| TENERIFFE | Partially Flooded | 488 | 817 | Yes |
| AUCHENFLOWER | Partially Flooded | 469 | 1003 | Yes |
| YERONGA | Partially Flooded | 462 | 984 | Yes |
| MILTON | Partially Flooded | 356 | 517 | Yes |
| KARANA DOWNS | Partially Flooded | 350 | 909 | Yes |
| JINDALEE | Partially Flooded | 345 | 892 | Yes |
| FIG TREE POCKET | Partially Flooded | 334 | 844 | Yes |
| NEWSTEAD | Partially Flooded | 282 | 400 | Yes |
| INDOOROOPIILLY | Partially Flooded | 279 | 533 | Yes |
| MOGGILL | Partially Flooded | 265 | 521 | Yes |
| BOWEN HILLS | Partially Flooded | 242 | 362 | Yes |
| PINKENBA | Partially Flooded | 241 | 244 | Yes |
| FAIRFIELD | Partially Flooded | 239 | 515 | Yes |
| HEMMANT | Partially Flooded | 235 | 286 | Yes |
| COORPAROO | Partially Flooded | 225 | 293 | Yes |
| EAST BRISBANE | Partially Flooded | 224 | 359 | Yes |
| NORMAN PARK | Partially Flooded | 222 | 482 | Yes |
| HAMILTON | Partially Flooded | 221 | 441 | Yes |
| WESTLAKE | Partially Flooded | 218 | 580 | Yes |
| OXLEY | Partially Flooded | 215 | 430 | Yes |
| SINNAMON PARK | Partially Flooded | 200 | 519 | Yes |
| WINDSOR | Partially Flooded | 199 | 262 | Yes |
| CHELMER | Partially Flooded | 196 | 432 | Yes |
| TARINGA | Partially Flooded | 189 | 437 | Yes |
| KENMORE | Partially Flooded | 187 | 476 | Yes |
| SHERWOOD | Partially Flooded | 187 | 443 | Yes |
| GRACEVILLE | Partially Flooded | 186 | 443 | Yes |
| CORINDA | Partially Flooded | 171 | 379 | Yes |
| BELLBOWRIE | Partially Flooded | 150 | 419 | Yes |
| INDOOROOPIILLY | Partially Flooded | 147 | 338 | Yes |

Record: 14 of 98

Note: property count includes strata title counts



Top Flooded Infrastructure

| Type | | | Suburb | Status | Selected |
|---------------|--------------------|--|-----------------|-------------------|----------|
| EDUCATION | SCHOOL | EDUCATION QUEENSLAND FIG TREE POCKET STATE | FIG TREE POCKET | Partially Flooded | Yes |
| MEDICAL | HOSPITAL | BETHANY CHRISTIAN CARE | GRACEVILLE | Partially Flooded | Yes |
| COMMUNICATION | COMMS TOWER | | ROCKLEA | Flooded | Yes |
| SEWER | PUMP STATION | | ARCHERFIELD | Partially Flooded | Yes |
| COMMUNICATION | COMMS TOWER | | ROCKLEA | Flooded | Yes |
| COMMUNICATION | COMMS TOWER | | ROCKLEA | Flooded | Yes |
| COMMUNICATION | COMMS TOWER | | ROCKLEA | Flooded | Yes |
| COMMUNICATION | COMMS TOWER | | ROCKLEA | Flooded | Yes |
| COMMUNICATION | COMMS TOWER | | ROCKLEA | Flooded | Yes |
| COMMUNICATION | COMMS TOWER | | ROCKLEA | Flooded | Yes |
| SEWER | PUMP STATION | | ACACIA RIDGE | Partially Flooded | Yes |
| COMMUNICATION | COMMS TOWER | | KENMORE | Flooded | Yes |
| COMMUNICATION | COMMS TOWER | | ROCKLEA | Partially Flooded | Yes |
| COMMUNICATION | COMMS TOWER | | ROCKLEA | Flooded | Yes |
| SEWER | TREATMENT PLANT | | ROCKLEA | Flooded | Yes |
| NON-MEDICAL | WELFARE INSTITUTE | WESLEY CENTRAL MISSION | SINNAMON PARK | Partially Flooded | Yes |
| SEWER | PUMP STATION | | KENMORE | Flooded | Yes |
| SEWER | PUMP STATION | | KENMORE | Flooded | Yes |
| ACCOMMODATION | GUEST HOUSE/HOSTEL | THE CONGREGATION OF THE PASSION IN AUSTRAL | OXLEY | Partially Flooded | Yes |
| WATER SUPPLY | SAMPLING POINT | | SHERWOOD | Partially Flooded | Yes |
| SEWER | PUMP STATION | | FIG TREE POCKET | Partially Flooded | Yes |
| SEWER | PUMP STATION | | FIG TREE POCKET | Flooded | Yes |
| SEWER | PUMP STATION | | KENMORE | Flooded | Yes |
| SEWER | PUMP STATION | | JINDALEE | Flooded | Yes |
| NON-MEDICAL | WELFARE INSTITUTE | THE QUEENSLAND SOCIETY FOR CRIPPLED CHILDREN | CORINDA | Partially Flooded | Yes |
| SEWER | PUMP STATION | | JINDALEE | Flooded | Yes |
| SEWER | TREATMENT PLANT | | KARANA DOWNS | Partially Flooded | Yes |
| SEWER | PUMP STATION | | KENMORE | Flooded | Yes |
| SEWER | PUMP STATION | | WESTLAKE | Flooded | Yes |
| EDUCATION | SCHOOL | UNIVERSITY OF QUEENSLAND | PINJARRA HILLS | Partially Flooded | Yes |
| SEWER | PUMP STATION | | BELLBOWRIE | Partially Flooded | Yes |
| EDUCATION | SCHOOL | BRISBANE CITY COUNCIL | BELLBOWRIE | Partially Flooded | Yes |
| MEDICAL | HOSPITAL | DEPARTMENT OF HEALTH - STATE | WACOL | Partially Flooded | Yes |
| COMMUNICATION | COMMS TOWER | | EAGLE FARM | Partially Flooded | Yes |
| EDUCATION | SCHOOL | THE SISTERS OF THE GOOD SAMARITAN LOURDES | HAWTHORNE | Partially Flooded | Yes |

Refer to attached Excel document



Top Flooded Roads

| Flooded Roads ranked by depth (ascending) | | Suburb | Status | Selected |
|---|--|-----------------|---------|----------|
| Mount Crosby Road | | MOUNT CROSBY | Flooded | Yes |
| Pinjarra Road | | PINJARRA HILLS | Flooded | Yes |
| Ipswich Motorway | | OXLEY | Flooded | Yes |
| Spine Street | | SUMNER | Flooded | Yes |
| Fig Tree Pocket Road | | FIG TREE POCKET | Flooded | Yes |
| Myora Street | | MOGGILL | Flooded | Yes |
| Kilkivan Avenue | | BROOKFIELD | Flooded | Yes |
| Scenic Road | | KENMORE | Flooded | Yes |
| Riverside Avenue | | BARELLAN POINT | Flooded | Yes |
| Junction Drive | | BARELLAN POINT | Flooded | Yes |
| Mitchell Street | | BARELLAN POINT | Flooded | Yes |
| George Street | | GOODNA | Flooded | Yes |
| Monash Street | | REDBANK | Flooded | Yes |
| Brisbane Terrace | | GOODNA | Flooded | Yes |
| Wacol Station Road | | WACOL | Flooded | Yes |
| Brisbane Terrace | | REDBANK | Flooded | Yes |
| Warrabara Road | | ANSTEAD | Flooded | Yes |
| Junction Road | | BARELLAN POINT | Flooded | Yes |
| Layard Street | | GOODNA | Flooded | Yes |
| Old Ipswich Road | | RIVERVIEW | Flooded | Yes |
| Priors Pocket Road | | MOGGILL | Flooded | Yes |
| Bridge | | MOUNT CROSBY | Flooded | Yes |
| Noel Kelly Drive | | GOODNA | Flooded | Yes |
| Wiruna Street | | GOODNA | Flooded | Yes |
| Wiruna Street | | WACOL | Flooded | Yes |
| Riverside Drive | | MURLEA | Flooded | Yes |
| Lake Manchester Road | | BANKS CREEK | Flooded | Yes |
| Lake Manchester Road | | KHOLO | Flooded | Yes |
| Kholo Road | | CHUWAR | Flooded | Yes |
| Moggill Road | | MOGGILL | Flooded | Yes |
| Moggill Fry Road | | RIVERVIEW | Flooded | Yes |
| Lower Stuart Street | | GOODNA | Flooded | Yes |
| Kholo Bridge | | CHUWAR | Flooded | Yes |
| Kholo Bridge | | KHOLO | Flooded | Yes |
| Kholo Bridge | | PINE MOUNTAIN | Flooded | Yes |
| Mount Crosby Road | | CHUWAR | Flooded | Yes |
| Mount Crosby Road | | KARANA DOWNS | Flooded | Yes |

"KJM-16"

BOM Alert

From: Flood Information Centre [REDACTED]
To: Flood Information Centre [REDACTED]
Date: Mon, 10 Jan 2011 05:00:34 +1000

BOM:

Australian Government Bureau of Meteorology

Queensland

TOP PRIORITY FOR IMMEDIATE BROADCAST

SEVERE WEATHER WARNING

for heavy rainfall leading to localised flash flooding and potentially worsening

the existing river flood situation

For people in the Southeast Coast district, southern parts of the Wide Bay and

Burnett district and eastern parts of the Darling Downs and Granite Belt

district.

Issued at 5:00 am on Monday 10 January 2011

Synoptic Situation: At 4am EST, an upper level low was located over the southern

Capricornia. A surface trough was located near the Fraser coast. Both of these

systems are moving slowly west.

Heavy rain areas and thunderstorms are expected to continue through the

Southeast Coast district, far southern parts of the Wide Bay and Burnett

District and eastern parts of the Darling Downs and Granite Belt district. Heavy

falls may lead to localised flash flooding and/or worsen existing river

flooding.

Recent events: In the past 24 hours, West Bellthorpe recorded 343mm, Maleny

337mm, and Lindfield 313mm.

Flood warnings are current for various rivers and streams in these districts;

refer to these products [www.bom.gov.au/qld] for further information.

The State Emergency Service advises that people in the affected area should:

avoid driving, walking or riding through flood waters

take care on the roads, especially in heavy downpours

avoid swimming in swollen rivers and creeks

Contact the SES on 132 500 for emergency assistance if required.

The next warning is due to be issued by 11am Monday

This warning is also available through TV and Radio broadcasts; the Bureau's

website at www.bom.gov.au or call 1300 659 219. The Bureau and State Emergency

Service would appreciate this warning being broadcast regularly.

This message has passed through an insecure network.

Please direct all enquiries to the message author.

BOM Alert

From: Flood Information Centre [REDACTED]
To: Flood Information Centre [REDACTED]
Date: Mon, 10 Jan 2011 06:39:49 +1000

BOM: TO::BOM552

RIVER HEIGHT BULLETIN for Brisbane, Pine, Caboolture Rivers and tributaries

Issued at 6.30am on Monday, 10 January 2011

Bureau of Meteorology, Brisbane

| Station Name | Time | Height | Trend | Crossing |
|--------------|------|--------|-------|----------|
|--------------|------|--------|-------|----------|

Stanley/Upper Brisbane

| | | | |
|-----------------------------|--------|-------|---------------------|
| Stanley R at Peachester # | 6.25am | 7.54 | F |
| Stanley R at Woodford # | 6.28am | 8.46 | F 2.06 above bridge |
| Stanley R at Woodford # | 6.20am | 8.48 | F 2.08 above bridge |
| Cooyar Ck at Cooyar Ck # | 6.27am | 6.98 | F |
| Cooyar Ck at Cooyar Ck * | 5.30am | 7.33 | F |
| Brisbane R at Linville # | 6.24am | 7.42 | F |
| Brisbane R at Devon Hills # | 6.25am | 8.97 | F |
| Emu Ck at Boat Mountain # | 6.28am | 7.56 | F |
| Emu Ck at Boat Mountain * | 5.30am | 8.26 | F |
| Brisbane R at Gregor Ck # | 6.29am | 12.52 | F |

Brisbane R at Gregor Ck * 5.10am 10.92 F

Cressbrook Ck at Rosentreter's Br # 6.27am 4.40 F

Cressbrook Ck at Rosentreter's Br * 5.08am 4.57 F

Lower Brisbane

Lockyer Ck at Helidon # 6.29am 4.06 F

Sandy Creek at Sandy Creek Road # 6.20am 2.75 F 0.85 above crossing

Lockyer Ck at Gatton # 6.07am 15.16

Laidley Ck at Warrego Hwy * 5.00am 5.63 R

Lockyer Ck at Glenore Grove # 6.25am 12.98 R

Lockyer Ck at Lyons Br # 6.23am 13.61 R

Lockyer Ck at O'Reilly'S Weir # 6.24am 14.06 R 6.40 above weir

Lockyer Ck at O'Reilly'S Weir * 5.32am 13.82 S 6.16 above weir

Brisbane R at Savages Crossing # 6.27am 12.25 F 9.35 above bridge

Brisbane R at Mt Crosby # 6.28am 13.16 S 0.81 above bridge

Brisbane R at Mt Crosby # 6.27am 13.04 F 0.69 above bridge

Bremer R at Spressers Br # 4.24am 5.12 R 0.32 above bridge

Western Ck at Rosewood Wwtp # 6.29am 6.43 S 0.82 below approaches

Bremer R at Rosewood# 4.51am 5.16 S 0.04 below bridge

Bremer R at Rosewood # 6.20am 5.16 F 0.04 below bridge

Bremer R at Five Mile Br Walloon # 5.54am 5.40 R 0.90 above approaches

Bremer R at Walloon Derm * 5.00am 6.41 R

Warrill Ck at Harrisville # 6.29am 2.82 F 2.68 below bridge

Warrill Ck at Churchbank Weir # 4.38am 0.92 R 0.92 above weir

Warrill Ck at Greens Rd Amberley # 6.29am 4.42 R

Bremer R at One Mile Br # 6.14am 10.85 R 6.35 below bridge

Bremer R at Hancocks Br Brassall # 6.24am 7.73 R 6.07 below bridge

Ipswich/Brisbane Creeks

Bundamba Ck Harding St Raceview # 6.27am 23.58 F

Bundamba Ck at Bundamba School # 5.31am 13.98 R 2.32 below bridge

Woogaroo Ck at Opossum # 6.16am 21.55 F

Oxley Ck Beatty Rd Archerfield # 6.06am 3.98 R

Enoggera Reservoir # 5.34am 76.51 S 2.14 above full supply

Enoggera Ck Bancroft Pk K Grove # 6.27am 3.54 R

Lt Cabbage Tree Ck Stringybark Dr # 6.29am 27.63 F

Pine/Caboolture

Samford Ck at Samford Village# 6.18am 2.25 S

South Pine R at Cash'S Crossing# 5.59am 3.20 F

South Pine R at Normanby Way# 6.22am 2.74 F

North Pine R at Youngs Crossing# 6.07am 6.87 S

Burpengary Ck at Dale St # 5.46am 8.69 R

Trend

S steady RS rising slowly FS falling slowly

P peak R rising F falling

EP estimated peak RF rising fast FF falling fast

Notes:


1. All heights are in metres.
2. Stations marked with [^] indicate heights above AHD.
3. Data from automatic stations [* or #] have not been checked & may have errors.
4. This product includes data made available to the Bureau by other agencies.

Separate approval may be required to use the data for other purposes. Refer to

Flood Gauge Information for station ownership.

This message has passed through an insecure network.

Please direct all enquiries to the message author.

| | | |
|---|---|---------------------------|
|  | Brisbane Infrastructure Integrated Management System Flood Information Centre FIC Record of Conversation | CD F 101 005 |
| | | Date: 31 October 2008 |
| | | Rev no: 1A |
| | | Rev date: 31 October 2009 |
| | | Page 1 of 1 |

| | | | |
|-----------------|--------------|----------|---------------|
| Date: 10/1/2011 | Employee No: | Shift: 3 | Page No: of |
|-----------------|--------------|----------|---------------|

| | |
|---|---|
| Contact name: KEN MORRIS + PETER BADILLEY | Operations Log Serial No: |
| Organisation/Division BOM | Phone No |
| In-coming Call | Subject BOM predictions for TUE 11/01/11 and WED 12/01/11 |
| Out-going Call 7:30 am | |

Conversation Details:

Conversation between Ken Morris and Peter Badilley.
Peter explaining to Ken, levels + flows + time of occurrence.

| | | |
|-----------|-----------------------------|---------------------|
| LOWOOD | 16m AHD | |
| SAVAGES | 17.0-18.0 m 18.0 | TONIGHT (MONDAY) |
| MT CROSBY | 18.0 m AHD | TUES early morning. |
| IPSWICH | 9.0 m AHD | TUES morning |
| MOGGILL | 9.0 m AHD | TUES lunch |
| JINDALEE | 5.5 m AHD | TUES evening |

predicted flow 3500 m³/s

predicted level @ Bris City 2.3 m AHD (with high tide)

the strategy is to try and keep the flow below 4000 m³/s
anticipated high tide Tues 1.6 m AHD and possibly as high as 2.5 m AHD on Wed.

there is no forecast rain at this time.

Savages level to be adjusted by adding 18.43 m to convert into "m AHD"

Sign Off: FIC Controller . [REDACTED]

BOM Alert

From: Flood Information Centre [REDACTED]
To: Flood Information Centre [REDACTED]
Date: Mon, 10 Jan 2011 09:21:28 +1000

BOM:

Australian Government Bureau of Meteorology

Queensland

FLOOD WARNING FOR THE STANLEY RIVER AND BRISBANE RIVER ABOVE WIVENHOE DAM

Issued at 9:16 AM on Monday the 10th of January 2011

by the Bureau of Meteorology, Brisbane.

Rainfall of up to 300mm has been recorded in the catchments of the Upper Brisbane and Stanley Rivers during the 24 hours to 9am Monday. Major flood levels continue although levels are currently easing. Further rises are possible and the heavy rainfall is expected to continue today.

UPPER BRISBANE RIVER:

Moderate to major flooding continues in much of the upper Brisbane catchment.

Flood levels are now easing although further rainfall is expected today.

STANLEY RIVER:

Major flood levels are easing in the Stanley River at Peachester and Woodford.

Further rises and high level major flooding are possible during Monday as rainfall continues.

Next Issue:

The next warning will be issued by 4pm Monday.

Latest River Heights:

| | | |
|-------------------------------------|----------------|-----------------------|
| Stanley R at Peachester # | 7.36m falling | 08:16 AM MON 10/01/11 |
| Stanley R at Woodford # | 8.28m falling | 08:10 AM MON 10/01/11 |
| Kilcoy Ck d/s Mt Kilcoy Weir * | 6.36m falling | 06:00 AM MON 10/01/11 |
| Kilcoy Ck d/s Mt Kilcoy Weir # | 5.92m steady | 08:16 AM MON 10/01/11 |
| Stanley R at Somerset Dam HW # | 102.84m rising | 08:18 AM MON 10/01/11 |
| Cooyar Ck at Cooyar Ck # | 6.36m falling | 08:18 AM MON 10/01/11 |
| Brisbane R at Linville * | 7.54m falling | 06:00 AM MON 10/01/11 |
| Brisbane R at Linville # | 6.94m falling | 08:15 AM MON 10/01/11 |
| Brisbane R at Devon Hills # | 8.25m falling | 08:19 AM MON 10/01/11 |
| Emu Ck at Boat Mountain * | 7.01m falling | 07:28 AM MON 10/01/11 |
| Emu Ck at Boat Mountain # | 6.62m falling | 08:13 AM MON 10/01/11 |
| Maronghi Ck at Glendale * | 3.23m falling | 07:17 AM MON 10/01/11 |
| Brisbane R at Gregor Ck * | 9.6m falling | 07:30 AM MON 10/01/11 |
| Brisbane R at Gregor Ck # | 11.44m falling | 08:17 AM MON 10/01/11 |
| Cressbrook Ck at Rosentreter's Br * | 4.3m falling | 07:20 AM MON 10/01/11 |
| Cressbrook Ck at Rosentreter's Br # | 4.2m falling | 08:18 AM MON 10/01/11 |

Esk Ck at Falls Rd * 4.05m steady 06:00 AM MON 10/01/11

Splityard Creek Dam # 166.1m rising 07:57 AM MON 10/01/11

Brisbane R at Wivenhoe Dam 68.55m falling slowly 09:00 AM SUN 09/01/11

Brisbane R at Wivenhoe Dam HW # 71.45m falling 08:18 AM MON 10/01/11

Brisbane R at Wivenhoe Dam HW # 71.47m rising 08:17 AM MON 10/01/11

Brisbane R at Wivenhoe Dam TW # 38.67m rising 08:17 AM MON 10/01/11

Brisbane R at Wivenhoe Dam TW # 38.6m falling 08:18 AM MON 10/01/11

*automatic station

Flood Warnings are also available on telephone 1300 659 219 at a low call cost
of 27.5 cents, more from mobile, public and satellite phones.

This message has passed through an insecure network.

Please direct all enquiries to the message author.

BOM Alert

From: Flood Information Centre [REDACTED]
To: Flood Information Centre [REDACTED]
Date: Mon, 10 Jan 2011 09:21:40 +1000

BOM:

Australian Government Bureau of Meteorology

Queensland

FLOOD WARNING FOR COASTAL STREAMS FROM MARYBOROUGH TO THE NSW BORDER

Issued at 9:19 AM on Monday the 10th of January 2011

by the Bureau of Meteorology, Brisbane.

A rainband stretches from Maroochydore to the Beenleigh area and inland to Stanthorpe. Rainfall totals of between 150-250mm and up to 320mm have been recorded in the Sunshine Coast region in the past 24 hours. Rainfall in the past six hours has been between 25-50mm across the Sunshine Coast Rivers and streams and in the lower Brisbane River and tributary creeks.

Further rainfall is expected to continue through the Southeast Coast district, far southern parts of the Wide Bay and Burnett District and eastern parts of the Darling Downs and Granite Belt district.

Minor flood levels are occurring in:

- North Pine River at Youngs Crossing

- Enoggera Creek between Enoggera Dam and Kelvin Grove
- Woogaroo Creek at Opossum
- Oxley Creek at Archerfield
- Upper Logan River at Dickman's Bridge and in the Rathdowney area.

Further rises and flash flooding are likely in the creeks and streams around Brisbane and Ipswich associated with the heaviest rainfall.

Flood warnings are current for the Mary River, Sunshine Coast streams and the Upper Brisbane and Lower Brisbane rivers. A severe weather warning is also current for this region.

Next Issue:

The next warning will be issued at about 4:30pm Monday.

Latest River Heights:

nil.

Warnings and River Height Bulletins are available at

<http://www.bom.gov.au/qld/flood/> . Flood Warnings are also available on telephone 1300 659 219 at a low call cost of 27.5 cents, more from mobile, public and satellite phones.

This message has passed through an insecure network.

Please direct all enquiries to the message author.

BOM Alert

From: Flood Information Centre [REDACTED]
To: Flood Information Centre [REDACTED]
Date: Mon, 10 Jan 2011 09:40:38 +1000

BOM: TO::BOM552

RIVER HEIGHT BULLETIN for Brisbane, Pine, Caboolture Rivers and tributaries

Issued at 9.31am on Monday, 10 January 2011

Bureau of Meteorology, Brisbane

| Station Name | Time | Height | Trend | Crossing |
|--------------|------|--------|-------|----------|
|--------------|------|--------|-------|----------|

Stanley/Upper Brisbane

| | | | | |
|-----------------------------|--------|------|---|-------------------|
| Stanley R at Peachester # | 9.25am | 7.24 | F | |
| Stanley R at Peachester * | 8.00am | 7.38 | S | |
| Stanley R at Woodford * | 8.20am | 8.28 | F | 1.88 above bridge |
| Stanley R at Woodford # | 9.25am | 8.14 | F | 1.74 above bridge |
| Stanley R at Woodford # | 9.23am | 8.16 | F | 1.76 above bridge |
| Cooyar Ck at Cooyar Ck # | 9.24am | 6.02 | F | |
| Cooyar Ck at Cooyar Ck * | 8.30am | 6.28 | F | |
| Brisbane R at Linville # | 9.27am | 6.56 | F | |
| Brisbane R at Linville * | 8.10am | 6.97 | F | |
| Brisbane R at Devon Hills # | 9.25am | 7.87 | F | |
| Emu Ck at Boat Mountain # | 9.25am | 6.14 | F | |

Emu Ck at Boat Mountain * 8.30am 6.51 F
 Brisbane R at Gregor Ck # 9.29am 10.68 F
 Brisbane R at Gregor Ck * 8.30am 8.99 F
 Cressbrook Ck at Rosentreter's Br # 9.27am 4.12 F
 Cressbrook Ck at Rosentreter's Br * 8.28am 4.20 S
 Lower Brisbane
 Lockyer Ck at Helidon # 9.29am 3.68 R
 Lockyer Ck at Helidon * 8.20am 3.69 F
 Sandy Creek at Sandy Creek Road # 8.39am 2.55 S 0.65 above crossing
 Lockyer Ck at Gatton # 9.19am 13.32
 Laidley Ck at Warrego Hwy * 8.00am 5.70 S
 Lockyer Ck at Glenore Grove # 9.21am 12.86 F
 Lockyer Ck at Lyons Br # 9.26am 14.09 R
 Lockyer Ck at Rifle Range Rd * 8.20am 13.40 R
 Lockyer Ck at O'Reilly's Weir # 9.26am 15.02 R 7.36 above weir
 Lockyer Ck at O'Reilly's Weir * 8.20am 14.78 R 7.12 above weir
 Brisbane R at Savages Crossing # 9.27am 13.05 R 10.15 above bridge
 Brisbane R at Savages Crossing * 8.20am 12.79 R 9.89 above bridge
 Brisbane R at Mt Crosby # 9.25am 13.45 S 1.10 above bridge
 Brisbane R at Mt Crosby # 9.27am 13.28 F 0.93 above bridge
 Bremer R at Spreessers Br # 9.03am 5.02 F 0.22 above bridge
 Western Ck at Rosewood Wwtp # 7.09am 6.38 F 0.87 below approaches
 Bremer R at Rosewood# 8.45am 5.06 F 0.14 below bridge

Bremer R at Rosewood # 9.29am 5.04 F 0.16 below bridge
 Bremer R at Five Mile Br Walloon # 8.24am 5.42 R 0.92 above approaches
 Bremer R at Walloon Derm * 8.00am 6.49 R
 Warrill Ck at Kalbar Weir Tw * 8.20am 5.57 R
 Warrill Ck at Harrisville # 9.14am 2.70 F 2.80 below bridge
 Warrill Ck at Churchbank Weir # 9.27am 1.01 R 1.01 above weir
 Warrill Ck at Churchbank Weir * 8.15am 0.92 R 0.92 above weir
 Warrill Ck at Greens Rd Amberley # 9.29am 4.56 R
 Warrill Ck at Amberley Dnr * 8.10am 5.34 R
 Purga Ck at Peak Crossing # 9.26am 1.81 R 3.29 below bridge
 Bremer R at One Mile Br # 9.19am 11.30 R 5.90 below bridge
 Bremer R at Hancocks Br Brassall # 9.27am 8.43 R 5.37 below bridge
 Ipswich/Brisbane Creeks
 Bundamba Ck Harding St Raceview # 9.22am 23.58 R
 Bundamba Ck at Blackstone Br # 9.15am 18.14 R 2.66 below bridge
 Bundamba Ck at Bundamba School # 9.25am 14.33 R 1.97 below bridge
 Woogaroo Ck at Opossum # 9.27am 21.95 R
 Oxley Ck New Beith Rd Greenbank * 8.20am 2.48 R
 Oxley Ck Beatty Rd Archerfield # 9.23am 4.26 R
 Stable Swamp Ck Musgrave Rd # 9.28am 6.75 R
 Norman Ck Joachim St Holland Pk # 9.23am 17.57 R
 Enoggera Reservoir # 9.24am 76.63 S 2.26 above full supply
 Enoggera Ck Bancroft Pk K Grove # 9.25am 4.08 F

Kedron Bk Osborne Rd Mitchelton # 9.24am 31.66 R

Cabbage Tree Ck at Old N'N Rd # 9.27am 43.08 F

Lt Cabbage Tree Ck Stringybark Dr # 9.29am 28.06 R

Pine/Caboolture

Samford Ck at Samford Village# 9.18am 2.70 S

S Pine R at Drapers Crossing # 9.29am 3.96 R

South Pine R at Cash'S Crossing# 9.08am 3.60 R

South Pine R at Normanby Way# 9.20am 2.64 R

North Pine R at Youngs Crossing# 9.07am 6.92 S

Burpengary Ck at Dale St # 8.28am 8.59 S

Trend

S steady RS rising slowly FS falling slowly

P peak R rising F falling

EP estimated peak RF rising fast FF falling fast

Notes:

1. All heights are in metres.
2. Stations marked with [^] indicate heights above AHD.
3. Data from automatic stations [* or #] have not been checked & may have errors.
4. This product includes data made available to the Bureau by other agencies.

Separate approval may be required to use the data for other purposes. Refer to

Flood Gauge Information for station ownership.

This message has passed through an insecure network.

Please direct all enquiries to the message author.

BOM Alert

From: Flood Information Centre [REDACTED]
To: Flood Information Centre [REDACTED]
Date: Mon, 10 Jan 2011 10:30:49 +1000

BOM:

Australian Government Bureau of Meteorology

Queensland

FLOOD WARNING FOR THE LOCKYER, BREMER, WARRILL AND BRISBANE RIVER BELOW WIVENHOE

Issued at 10:28 AM on Monday the 10th of January 2011

by the Bureau of Meteorology, Brisbane.

Stream level rises causing moderate to major flooding are being recorded in Lockyer Creek and along the Bremer River. Moderate flood levels are likely at Ipswich. Further heavy rainfall is forecast for the catchments of the Brisbane and Bremer Rivers and Warrill and Lockyer Creeks during Monday.

Wivenhoe dam is providing significant mitigation of upper Brisbane floods. River flows from the Bremer and Lockyer catchments combined with releases from Wivenhoe dam are expected to increase levels in Brisbane overnight and through Tuesday. At the Brisbane City Gauge, river levels of about 2.3 metres are expected with the high tides on Tuesday and Wednesday causing minor flooding.

LOCKYER CREEK:

A major flood peak is currently around Glenore Grove of around 13 metres. Rises to around 14.5 metres are expected at Lyons Bridge later today and around 15 metres at Rifle Range Road. Higher levels are possible as rainfall continues.

BREMER RIVER:

River level rises and moderate flooding continue in the Rosewood area. Further rises are expected downstream during the next 24 hours with moderate flood levels of at least 10 metres expected in the Bremer River at Ipswich early on Tuesday.

MIDDLE AND LOWER BRISBANE:

SEQwater advises releases from Wivenhoe Dam will increase during Monday. Minor flooding is expected at Savages and moderate flooding at Mt Crosby overnight tonight.

The Brisbane River at the City Gauge (lower end of Edward Street and at Thornton Street) is expected to reach about 2.3 metres with the high tides on Tuesday and Wednesday. Further rises are possible as rainfall continues.

Predicted River Heights/Flows:

Ipswich: Reach at least 9.5 metres (moderate) during the early hours of Tuesday.

Moggill: Reach around 8 metres (below minor) on Tuesday morning.

Jindalee: Reach at least 5 metres (below minor) during Tuesday.

Brisbane: Reach about 2.3 metres (minor) with the high tides on Tuesday and

Wednesday.

Further rises are possible at all four locations depending on further rain.

Next Issue:

The next warning will be issued at about 3:30pm Monday.

Latest River Heights:

| | | |
|-----------------------------------|----------------|-----------------------|
| Lockyer Ck at Gatton * | 9.49m falling | 08:20 AM MON 10/01/11 |
| Laidley Ck at Laidley | 3.85m steady | 08:55 AM MON 10/01/11 |
| Laidley Ck at Showground Weir * | 5.3m falling | 08:10 AM MON 10/01/11 |
| Laidley Ck at Warrego Hwy * | 5.7m steady | 08:00 AM MON 10/01/11 |
| Lockyer Ck at Glenore Grove # | 12.86m falling | 09:18 AM MON 10/01/11 |
| Lockyer Ck at Lyons Br # | 14.07m rising | 09:17 AM MON 10/01/11 |
| Lockyer Ck at Rifle Range Rd * | 13.4m rising | 08:20 AM MON 10/01/11 |
| Brisbane R at Lowood Pump Stn # | 13.21m rising | 09:13 AM MON 10/01/11 |
| Brisbane R at Savages Crossing # | 12.95m rising | 09:18 AM MON 10/01/11 |
| Brisbane R at Burtons Br # | 9.92m rising | 09:11 AM MON 10/01/11 |
| Brisbane R at Kholo Br # | 5.19m rising | 09:12 AM MON 10/01/11 |
| Brisbane R at Mt Crosby # | 13.43m rising | 09:16 AM MON 10/01/11 |
| Brisbane R at Colleges Crossing # | 11.11m rising | 09:20 AM MON 10/01/11 |
| Bremer R at Adams Br * | 1.93m rising | 08:30 AM MON 10/01/11 |
| Bremer R at Stokes Crossing # | 2.3m rising | 09:01 AM MON 10/01/11 |
| Bremer R at Spresters Br # | 5.02m falling | 09:03 AM MON 10/01/11 |

Western Ck at Rosewood WWTP # 6.38m falling 07:09 AM MON 10/01/11
Bremer R at Rosewood # 5.06m falling 09:08 AM MON 10/01/11
Bremer R at Five Mile Br Walloon # 5.42m rising 08:24 AM MON 10/01/11
Bremer R at Walloon DERM * 6.49m rising 08:00 AM MON 10/01/11
Warrill Ck at Harrisville# 2.65m steady 08:17 AM MON 10/01/11
Warrill Ck at Amberley DNR * 5.34m rising 08:10 AM MON 10/01/11
Bremer R at Ipswich # 5.7m rising 09:08 AM MON 10/01/11
Brisbane R at Moggill # 4.72m rising 09:14 AM MON 10/01/11
Brisbane R at Jindalee Br # 2.8m rising 09:17 AM MON 10/01/11
Brisbane R at City Gauge # 0.65m rising 09:09 AM MON 10/01/11

*automatic station

Warnings and River Height Bulletins are available at

<http://www.bom.gov.au/qld/flood/> . Flood Warnings are also available on
telephone 1300 659 219 at a low call cost of 27.5 cents, more from mobile,
public and satellite phones.

This message has passed through an insecure network.

Please direct all enquiries to the message author.

BOM Alert

From: Flood Information Centre [REDACTED]
To: Flood Information Centre [REDACTED]
Date: Mon, 10 Jan 2011 11:10:44 +1000

BOM:

Australian Government Bureau of Meteorology

Queensland

TOP PRIORITY FOR IMMEDIATE BROADCAST

SEVERE WEATHER WARNING

for heavy rainfall leading to localised flash flooding and potentially worsening the existing river flood situation

For people in the Southeast Coast district, southern parts of the Wide Bay and Burnett district and eastern parts of the Darling Downs and Granite Belt district.

Issued at 11:00 am on Monday 10 January 2011

Synoptic Situation: At 10am EST, an upper level low was located over the southwest of the Capricornia District. A surface trough was located off the southeast coast. Both of these systems are moving slowly west.

Heavy rain areas and thunderstorms are expected to continue through the Southeast Coast district, far southern parts of the Wide Bay and Burnett District and eastern parts of the Darling Downs and Granite Belt district. Heavy falls may lead to localised flash flooding and/or worsen existing river

flooding.

The heavy rain areas and thunderstorms are expected to contract southwards into the Southeast Coast district and southeast parts of the Darling Downs and Granite Belt district during Tuesday.

Recent events: In the 24 hours to 9am EST Monday morning, Maleny received 321mm, West Bellthorpe 310 mm and Peachester 298 mm.

Flood warnings are current for various rivers and streams in these districts; refer to these products [www.bom.gov.au/qld] for further information.

The State Emergency Service advises that people in the affected area should:

• avoid driving, walking or riding through flood waters

• take care on the roads, especially in heavy downpours

• avoid swimming in swollen rivers and creeks

Contact the SES on 132 500 for emergency assistance if required.

The next warning is due to be issued by 11am Monday

This warning is also available through TV and Radio broadcasts; the Bureau's website at www.bom.gov.au or call 1300 659 219. The Bureau and State Emergency Service would appreciate this warning being broadcast regularly.

This message has passed through an insecure network.

Please direct all enquiries to the message author.

BOM Alert

From: Flood Information Centre [REDACTED]
To: Flood Information Centre [REDACTED]
Date: Mon, 10 Jan 2011 11:10:56 +1000

BOM:

Australian Government Bureau of Meteorology

Queensland

TOP PRIORITY FOR IMMEDIATE BROADCAST

SEVERE WEATHER WARNING

for heavy rainfall leading to localised flash flooding and potentially worsening the existing river flood situation

For people in the Southeast Coast district, southern parts of the Wide Bay and Burnett district and eastern parts of the Darling Downs and Granite Belt district.

Issued at 11:05 am on Monday 10 January 2011

Synoptic Situation: At 10am EST, an upper level low was located over the southwest of the Capricornia District. A surface trough was located off the southeast coast. Both of these systems are moving slowly west.

Heavy rain areas and thunderstorms are expected to continue through the Southeast Coast district, far southern parts of the Wide Bay and Burnett District and eastern parts of the Darling Downs and Granite Belt district. Heavy falls may lead to localised flash flooding and/or worsen existing river

flooding.

The heavy rain areas and thunderstorms are expected to contract southwards into the Southeast Coast district and southeast parts of the Darling Downs and Granite Belt district during Tuesday.

Recent events: In the 24 hours to 9am EST Monday morning, Maleny received 321mm, West Bellthorpe 310 mm and Peachester 298 mm.

Flood warnings are current for various rivers and streams in these districts; refer to these products [www.bom.gov.au/qld] for further information.

The State Emergency Service advises that people in the affected area should:

• avoid driving, walking or riding through flood waters

• take care on the roads, especially in heavy downpours

• avoid swimming in swollen rivers and creeks

Contact the SES on 132 500 for emergency assistance if required.

The next warning is due to be issued by 5 pm Monday.

This warning is also available through TV and Radio broadcasts; the Bureau's website at www.bom.gov.au or call 1300 659 219. The Bureau and State Emergency Service would appreciate this warning being broadcast regularly.

This message has passed through an insecure network.

Please direct all enquiries to the message author.

BOM Alert

From: Flood Information Centre [REDACTED]
To: Flood Information Centre [REDACTED]
Date: Mon, 10 Jan 2011 11:10:57 +1000

BOM:

Australian Government Bureau of Meteorology

Queensland

TOP PRIORITY FOR IMMEDIATE BROADCAST

SEVERE WEATHER WARNING

for heavy rainfall leading to localised flash flooding and potentially worsening

the existing river flood situation

For people in the Southeast Coast district, southern parts of the Wide Bay and

Burnett district and eastern parts of the Darling Downs and Granite Belt

district.

Issued at 11:05 am on Monday 10 January 2011

Synoptic Situation: At 10am EST, an upper level low was located over the

southwest of the Capricornia District. A surface trough was located off the

southeast coast. Both of these systems are moving slowly west.

Heavy rain areas and thunderstorms are expected to continue through the

Southeast Coast district, far southern parts of the Wide Bay and Burnett

District and eastern parts of the Darling Downs and Granite Belt district. Heavy

falls may lead to localised flash flooding and/or worsen existing river

flooding.

The heavy rain areas and thunderstorms are expected to contract southwards into

the Southeast Coast district and southeast parts of the Darling Downs and

Granite Belt district during Tuesday.

Recent events: In the 24 hours to 9am EST Monday morning, Maleny received 321mm,

West Bellthorpe 310 mm and Peachester 298 mm.

Flood warnings are current for various rivers and streams in these districts;

refer to these products [www.bom.gov.au/qld] for further information.

The State Emergency Service advises that people in the affected area should:

avoid driving, walking or riding through flood waters

take care on the roads, especially in heavy downpours

avoid swimming in swollen rivers and creeks

Contact the SES on 132 500 for emergency assistance if required.

The next warning is due to be issued by 5 pm Monday.

This warning is also available through TV and Radio broadcasts; the Bureau's

website at www.bom.gov.au or call 1300 659 219. The Bureau and State Emergency

Service would appreciate this warning being broadcast regularly.

This message has passed through an insecure network.

Please direct all enquiries to the message author.

BOM Alert

From: Flood Information Centre [REDACTED]
To: Flood Information Centre [REDACTED]
Date: Mon, 10 Jan 2011 11:50:44 +1000

BOM:

Australian Government Bureau of Meteorology

Queensland

Flood Summary

Issued at 11:40 AM on Monday the 10th of January 2011

The following Watches/Warnings are current:

FLOOD WARNING FOR COASTAL STREAMS FROM MARYBOROUGH TO THE NSW
BORDER

FLOOD WARNING FOR COOPER CREEK

FLOOD WARNING FOR THE BURNETT RIVER AND TRIBUTARIES

FLOOD WARNING FOR THE CONDAMINE AND BALONNE RIVER SYSTEM

FLOOD WARNING FOR THE FITZROY RIVER BASIN

FLOOD WARNING FOR THE LOCKYER, BREMER, WARRILL AND BRISBANE RIVER
BELOW WIVENHOE

FLOOD WARNING FOR THE MARY RIVER

FLOOD WARNING FOR THE MOONIE RIVER

FLOOD WARNING FOR THE STANLEY RIVER AND BRISBANE RIVER ABOVE
WIVENHOE DAM

FLOOD WARNING FOR THE SUNSHINE COAST RIVERS

FLOOD WARNING FOR THE WEIR AND MACINTYRE RIVERS

For more information on flood warnings see: www.bom.gov.au/qld/flood

Additional information:

Other flooding includes:

Gulf Rivers: Moderate flooding is rising slowly on Magnificent Creek at

Kowanyama. Minor flood is occurring along the Norman River between Yappar River
and Normanton.

Diamantina River: Minor flooding is occurring between Diamantina Lakes and
Monkira.

Warrego River: Minor flooding easing between Cunnamulla and Rocky.

Kolan River: Minor flood levels rising slowly at Fred Haigh Dam.

Burdekin River: Minor flooding is easing in the Suttor River at St Anns.

Warnings and River Height Bulletins are available at

<http://www.bom.gov.au/qld/flood/> . Flood Warnings are also available on

telephone 1300 659 219 at a low call cost of 27.5 cents, more from mobile,

public and satellite phones.

This message has passed through an insecure network.

Please direct all enquiries to the message author.

BOM Alert

From: Flood Information Centre [REDACTED]
To: Flood Information Centre [REDACTED]
Date: Mon, 10 Jan 2011 12:40:12 +1000

BOM: TO::BOM552

RIVER HEIGHT BULLETIN for Brisbane, Pine, Caboolture Rivers and tributaries

Issued at 12.30pm on Monday, 10 January 2011

Bureau of Meteorology, Brisbane

| Station Name | Time | Height | Trend | Crossing |
|--------------|------|--------|-------|----------|
|--------------|------|--------|-------|----------|

Stanley/Upper Brisbane

| | | | | |
|-----------------------------|---------|------|---|-------------------|
| Stanley R at Peachester # | 12.25pm | 7.28 | F | |
| Stanley R at Peachester * | 11.40am | 7.24 | F | |
| Stanley R at Woodford * | 11.50am | 7.94 | F | 1.54 above bridge |
| Stanley R at Woodford # | 12.19pm | 7.88 | F | 1.48 above bridge |
| Stanley R at Woodford # | 12.02pm | 7.92 | F | 1.52 above bridge |
| Cooyar Ck at Cooyar Ck # | 12.27pm | 5.24 | F | |
| Cooyar Ck at Cooyar Ck * | 11.30am | 5.45 | F | |
| Brisbane R at Linville # | 12.24pm | 5.76 | F | |
| Brisbane R at Linville * | 11.50am | 5.88 | F | |
| Brisbane R at Devon Hills # | 12.28pm | 6.95 | F | |

Emu Ck at Boat Mountain # 12.25pm 5.38 F

Emu Ck at Boat Mountain * 11.29am 5.58 R

Brisbane R at Gregor Ck # 12.29pm 9.38 F

Brisbane R at Gregor Ck * 11.20am 7.42 F

Cressbrook Ck at Rosentreter's Br # 12.27pm 4.32 R

Cressbrook Ck at Rosentreter's Br * 11.30am 4.03 S

Lower Brisbane

Lockyer Ck at Helidon # 12.14pm 3.86 F

Lockyer Ck at Helidon * 11.10am 3.89 R

Sandy Creek at Sandy Creek Road # 11.00am 2.70 S 0.80 above crossing

Lockyer Ck at Gatton # 12.25pm 11.14 R

Laidley Ck at Mulgowie * 11.30am 4.43 R 2.67 below bridge

Laidley Ck at Warrego Hwy * 11.00am 5.59 F

Lockyer Ck at Glenore Grove # 12.29pm 12.24 F

Lockyer Ck at Lyons Br # 12.20pm 14.49 R

Lockyer Ck at O'Reilly'S Weir # 12.29pm 15.64 R 7.98 above weir

Lockyer Ck at O'Reilly'S Weir * 10.53am 15.46 R 7.80 above weir

Brisbane R at Savages Crossing # 12.27pm 13.63 F 10.73 above bridge

Brisbane R at Mt Crosby # 12.19pm 13.82 S 1.47 above bridge

Brisbane R at Mt Crosby # 12.27pm 13.70 R 1.35 above bridge

Bremer R at Adams Br # 12.27pm 4.31 R

Bremer R at Adams Br * 11.29am 3.92 R

Bremer R at Stokes Crossing # 12.25pm 3.70 R 2.60 above causeway

Bremer R at Spresters Br # 11.38am 4.92 F 0.12 above bridge

Western Ck at Grandchester # 12.29pm 3.48 F 1.12 below bridge

Western Ck at Rosewood Wwtp # 12.29pm 6.08 S 1.17 below approaches

Bremer R at Rosewood# 11.22am 4.91 F 0.29 below bridge

Bremer R at Rosewood # 12.26pm 4.90 F 0.30 below bridge

Bremer R at Five Mile Br Walloon # 12.24pm 5.34 F 0.84 above approaches

Bremer R at Walloon Derm * 11.00am 6.62 R

Warrill Ck at Harrisville# 12.26pm 3.05 R 2.45 below bridge

Warrill Ck at Harrisville # 12.26pm 3.14 R 2.36 below bridge

Warrill Ck at Churchbank Weir # 12.19pm 1.57 R 1.57 above weir

Warrill Ck at Greens Rd Amberley # 12.29pm 4.74 R

Purga Ck at Peak Crossing # 12.24pm 3.51 R 1.59 below bridge

Bremer R at One Mile Br # 12.13pm 11.75 F 5.45 below bridge

Bremer R at Hancocks Br Brassall # 12.20pm 8.88 R 4.92 below bridge

Bremer R at Ipswich # 12.29pm 6.30 R 18.58 below bridge

Brisbane R at City Gauge # 12.06pm 1.55 R

Ipswich/Brisbane Creeks

Deebing Creek at Churchill # 12.26pm 2.00 F

Bundamba Ck Harding St Raceview # 11.49am 24.13 S

Bundamba Ck at Blackstone Br # 12.05pm 18.44 R 2.36 below bridge

Bundamba Ck at Bundamba School # 12.29pm 14.33 R 1.97 below bridge

Woogaroo Ck at Opossum # 12.22pm 22.80 R

Oxley Ck Beatty Rd Archerfield # 12.03pm 4.48 R

Oxley Ck Mouth # 11.36am 2.18

Lota Ck Rickett Rd Ransome # 12.01pm 2.62 R

Enoggera Reservoir # 12.29pm 76.72 S 2.35 above full supply

Enoggera Ck Bancroft Pk K Grove # 12.28pm 3.64 F

Zillman Waterhole at F.Sleeman Pk #11.42am 3.31

Pine/Caboolture

Samford Ck at Samford Village# 12.18pm 2.60 S

S Pine R at Drapers Crossing # 12.28pm 4.12 F

South Pine R at Cash'S Crossing# 12.27pm 3.75 F

South Pine R at Normanby Way# 12.24pm 3.04 F

North Pine R at Youngs Crossing# 12.16pm 7.12 F

Burpengary Ck at Dale St # 12.20pm 8.24 F

Trend

S steady RS rising slowly FS falling slowly

P peak R rising F falling

EP estimated peak RF rising fast FF falling fast

Notes:


1. All heights are in metres.
2. Stations marked with [^] indicate heights above AHD.
3. Data from automatic stations [* or #] have not been checked & may have errors.
4. This product includes data made available to the Bureau by other agencies.

Separate approval may be required to use the data for other purposes. Refer to

Flood Gauge Information for station ownership.

This message has passed through an insecure network.

Please direct all enquiries to the message author.

| | | |
|---|---|---------------------------|
|  | Brisbane Infrastructure Integrated Management System Flood Information Centre FIC Record of Conversation | CD F 101 005 |
| | | Date: 31 October 2008 |
| | | Rev no: 1A |
| | | Rev date: 31 October 2009 |
| | | Page 1 of 1 |

| | | | |
|-----------------|---------------------|------------|-----------------|
| Date: 10/1/2011 | Employee No: 074840 | Shift: 1 # | Page No: / of / |
|-----------------|---------------------|------------|-----------------|

| | |
|-------------------------------|--------------------------------------|
| Contact name: Santina Pennisi | Operations Log Serial No: |
| Organisation/Division | Phone No |
| In-coming Call | Subject |
| Out-going Call 2:30pm | BOM predictions ~ 10/1/2011 @ 3:30pm |

Conversation Details:

Santina Pennisi returned call to BOM & spoke with Peter Baddiley & Jimmy Stuart. RE: Predictions based on BOM's model runs.

Scenario w Forecast Rainfall (Rainfall same as what has just occurred, but applying for 6hrs).

For Wednesday peak @ high tide - the following is predicted
Peak at City Gauge ~ 3.14m AHD (allowed 0.4m ocean anomaly in BOM model)
River ~ 4600 m³/s.

Scenario w/out Forecast Rainfall

Peak at City Gauge ~ 2.8m AHD (allowed 0.4m ocean anomaly in BOM model)
River ~ 4177 m³/s.

With rain fall, BOM estimates

15.8 Looewood Tues Eve
17.2 Savages overnight Tues
18.25 Mt Crosby Early Tues Morn
12.5 Ipswich mid Tues
11.3 Moggil arvo Tues
6.5 Jindalee late Tues
2.8 Bris Gauge wed arvo.

Apply rain below wivenhoe

AHD
16 Looewood Tues eve
17.2 Savages overnight Tues
18.5 Mt Crosby early Tuesday
14.4 Ipswich arvo Tues
12.5 Moggil arvo Tues
7.3 Jindalee overnight Tues
3.1 City Wed arvo.

BOM will issue to public

12m AHD Moggil late Tuesday
7m Jindalee late Tues/overnight
2.1m Bris City Tuesday high tide
3.0m AHD Bris City Wed High Tide.

END

Sign Off: FIC Controller

BOM Alert

From: Flood Information Centre [REDACTED]
To: Flood Information Centre [REDACTED]
Date: Mon, 10 Jan 2011 15:40:35 +1000

BOM: TO::BOM552

RIVER HEIGHT BULLETIN for Brisbane, Pine, Caboolture Rivers and tributaries

Issued at 3.30pm on Monday, 10 January 2011

Bureau of Meteorology, Brisbane

| Station Name | Time | Height | Trend | Crossing |
|--------------|------|--------|-------|----------|
|--------------|------|--------|-------|----------|

Stanley/Upper Brisbane

| | | | | |
|-----------------------------|--------|------|---|-------------------|
| Stanley R at Peachester # | 3.28pm | 7.28 | F | |
| Stanley R at Peachester * | 2.40pm | 7.27 | F | |
| Stanley R at Woodford * | 2.50pm | 7.66 | F | 1.26 above bridge |
| Stanley R at Woodford # | 3.25pm | 7.58 | F | 1.18 above bridge |
| Stanley R at Woodford # | 3.20pm | 7.60 | F | 1.20 above bridge |
| Cooyar Ck at Cooyar Ck # | 3.27pm | 4.70 | F | |
| Cooyar Ck at Cooyar Ck * | 2.02pm | 4.93 | S | |
| Brisbane R at Linville # | 3.12pm | 5.24 | F | |
| Brisbane R at Linville * | 2.50pm | 5.30 | F | |
| Brisbane R at Devon Hills # | 3.29pm | 6.43 | F | |

Emu Ck at Boat Mountain # 3.25pm 5.46 R

Emu Ck at Boat Mountain * 2.20pm 5.34 R

Brisbane R at Gregor Ck # 3.26pm 8.96 F

Brisbane R at Gregor Ck * 2.20pm 6.87 F

Cressbrook Ck at Rosentreter's Br # 3.27pm 6.46 R

Cressbrook Ck at Rosentreter's Br * 2.30pm 5.75 R

Lower Brisbane

Lockyer Ck at Helidon # 3.02pm 12.68

Lockyer Ck at Helidon * 2.50pm 12.66 R

Sandy Creek at Sandy Creek Road # 3.25pm 3.00 R 1.10 above crossing

Lockyer Ck at Gatton # 3.21pm 10.44 R

Laidley Ck at Mulgowie * 2.30pm 6.58 R 0.52 below bridge

Laidley Ck at Laidley 2.45pm 6.00 R 2.50 below bridge

Laidley Ck at Showground Weir # 3.28pm 7.30 R 3.15 above weir

Laidley Ck at Warrego Hwy * 2.00pm 5.35 F

Lockyer Ck at Glenore Grove # 3.25pm 11.26 F

Lockyer Ck at Lyons Br # 3.14pm 14.81 R

Lockyer Ck at O'Reilly'S Weir # 3.27pm 15.96 F 8.30 above weir

Lockyer Ck at O'Reilly'S Weir * 2.30pm 16.02 R 8.36 above weir

Brisbane R at Savages Crossing # 3.26pm 14.11 F 11.21 above bridge

Brisbane R at Mt Crosby # 3.25pm 14.32 R 1.97 above bridge

Brisbane R at Mt Crosby # 3.24pm 14.14 R 1.79 above bridge

Bremer R at Adams Br # 3.24pm 4.51 R

Bremer R at Adams Br * 2.10pm 4.57 S

Bremer R at Stokes Crossing # 3.25pm 4.60 R 3.50 above causeway

Bremer R at Spresters Br # 3.09pm 5.07 R 0.27 above bridge

Western Ck at Grandchester # 3.25pm 3.53 R 1.07 below bridge

Western Ck at Rosewood Wwtp # 3.29pm 6.28 S 0.97 below approaches

Bremer R at Rosewood# 3.19pm 4.96 R 0.24 below bridge

Bremer R at Rosewood # 3.17pm 4.96 R 0.24 below bridge

Bremer R at Five Mile Br Walloon # 3.27pm 5.10 F 0.60 above approaches

Bremer R at Walloon Derm * 2.00pm 6.46 F

Warrill Ck at Kalbar Weir Hw # 3.27pm 78.97 R 4.20 above weir

Warrill Ck at Kalbar 3.00pm 8.90 RF 1.90 above bridge

Warrill Ck at Harrisville# 3.10pm 3.75 R 1.75 below bridge

Warrill Ck at Harrisville # 3.26pm 3.94 R 1.56 below bridge

Warrill Ck at Churchbank Weir # 3.09pm 2.21 R 2.21 above weir

Warrill Ck at Greens Rd Amberley # 3.29pm 5.20 R

Purga Ck at Peak Crossing # 3.24pm 3.96 S 1.14 below bridge

Bremer R at One Mile Br # 3.30pm 11.80 R 5.40 below bridge

Bremer R at Hancocks Br Brassall # 2.48pm 9.18 R 4.62 below bridge

Bremer R at Ipswich # 3.13pm 6.65 R 18.23 below bridge

Ipswich/Brisbane Creeks

Bundamba Ck Harding St Raceview # 3.27pm 24.28 R

Bundamba Ck at Blackstone Br # 1.49pm 18.54 R 2.26 below bridge

Bundamba Ck at Bundamba School # 1.35pm 14.43 R 1.87 below bridge

Woogaroo Ck at Opossum # 3.26pm 23.30 F

Oxley Ck Beatty Rd Archerfield # 12.52pm 4.52 R

Blunder Ck King Ave Durack # 3.23pm 7.40 R

Oxley Ck Mouth # 1.53pm 2.59 R

Enoggera Reservoir # 3.24pm 76.64 S 2.27 above full supply

Enoggera Ck Bancroft Pk K Grove # 3.20pm 3.40 F

Pine/Caboolture

Samford Ck at Samford Village# 3.18pm 2.15 S

South Pine R at Cash'S Crossing# 3.20pm 3.55 F

South Pine R at Normanby Way# 3.14pm 3.14 R

North Pine R at Youngs Crossing# 3.16pm 6.97 F

Trend

S steady RS rising slowly FS falling slowly

P peak R rising F falling

EP estimated peak RF rising fast FF falling fast

Notes:

1. All heights are in metres.
2. Stations marked with [^] indicate heights above AHD.
3. Data from automatic stations [* or #] have not been checked & may have errors.
4. This product includes data made available to the Bureau by other agencies.

Separate approval may be required to use the data for other purposes. Refer to

Flood Gauge Information for station ownership.

This message has passed through an insecure network.

Please direct all enquiries to the message author.

BOM Alert

From: Flood Information Centre [REDACTED]
To: Flood Information Centre [REDACTED]
Date: Mon, 10 Jan 2011 16:20:41 +1000

BOM:

Australian Government Bureau of Meteorology

Queensland

PRIORITY

FLOOD WARNING FOR THE LOCKYER, BREMER, WARRILL AND BRISBANE RIVER
BELOW WIVENHOE

INCLUDING BRISBANE CITY

Issued at 4:16 PM on Monday the 10th of January 2011

by the Bureau of Meteorology, Brisbane.

Stream level rises causing moderate to major flooding are being recorded in

Lockyer Creek, Warrill Creek and along the Bremer River. Major flood levels

are likely at Ipswich during Tuesday.

Wivenhoe dam is providing significant mitigation of upper Brisbane floods. River

flows from the Bremer and Lockyer catchments combined with releases from

Wivenhoe dam are expected to increase levels in Brisbane overnight and through

Tuesday.

At the Brisbane City Gauge, a river levels of about 2.1 metres is expected with

the afternoon high tide on Tuesday and about 3 metres is expected with the high

tides on Wednesday causing moderate flooding.

(3 metres at the Brisbane City gauge is about 1.5 metres higher than the highest tide of the year at this location).

LOCKYER CREEK:

Further rainfall during Monday has led to renewed rises in the Lockyer Creek

catchment. Rainfall is forecast to continue this evening and a return to

moderate to major flood levels is expected overnight and during Tuesday. Major

flood levels are expected to continue at Lyons Bridge with rises above 15 metres

likely during Tuesday.

BREMER RIVER:

Rainfall during Monday will lead to renewed rises and a return to moderate flood

levels along the Bremer River to Walloon. Levels over 5 metres are expected at

Rosewood overnight.

The Bremer River at Ipswich is expected to reach about 12.7 metres on Tuesday

afternoon. Higher levels are possible.

WARRILL CREEK

Further rainfall during Monday will lead to increasing river levels along

Warrill Creek with levels expected to reach above 6 metres at Amberley

overnight.

MIDDLE AND LOWER BRISBANE:

SEQwater advises releases from Wivenhoe Dam will increase during Monday.

Moderate flooding is expected at Savages Crossing and at Mt Crosby Weir

overnight tonight and during Tuesday.

The Brisbane River at the City Gauge (lower end of Edward Street and at Thornton

Street) is expected to reach about 2.1 metres with the afternoon high tide on

Tuesday and reach about 3 metres with the high tides on Wednesday causing

moderate flooding.

(3 metres at the Brisbane City gauge is about 1.5 metres higher than the highest

tide of the year at this location).

Predicted River Heights/Flows:

Ipswich: Reach about 12.7 metres (major) during Tuesday afternoon. Quicker

rises and higher levels are possible depending on further

rainfall tonight.

Moggill: Reach about 12 metres (minor) during Tuesday afternoon.

Jindalee: Reach about 7 metres (minor) overnight Tuesday.

Brisbane: Reach about 2.1 metres with the afternoon high tide on Tuesday.

Reach about 3 metres with the high tides on Wednesday causing

moderate flooding.

(3 metres at the Brisbane City gauge is about 1.5 metres higher than the highest

tide of the year at this location).

Further rises are possible at all four locations depending on further rain.

Next Issue:

The next warning will be issued at about 9pm Monday.

Latest River Heights:

Lockyer Ck at Gatton # 10.36m steady 03:04 PM MON 10/01/11

Laidley Ck at Laidley 6m rising 02:45 PM MON 10/01/11

Laidley Ck at Showground Weir # 6.98m rising 03:07 PM MON 10/01/11

Laidley Ck at Warrego Hwy * 5.43m falling 01:00 PM MON 10/01/11

Lockyer Ck at Glenore Grove # 11.36m falling 03:05 PM MON 10/01/11

Lockyer Ck at Lyons Br # 14.79m rising 03:02 PM MON 10/01/11

Lockyer Ck at Rifle Range Rd * 13.4m rising 08:20 AM MON 10/01/11

Brisbane R at Lowood Pump Stn # 14.13m falling 03:07 PM MON 10/01/11

Brisbane R at Savages Crossing # 14.15m rising 03:09 PM MON 10/01/11

Brisbane R at Burtons Br # 10.88m rising 03:05 PM MON 10/01/11

Brisbane R at Kholo Br # 6.23m rising 03:06 PM MON 10/01/11

Brisbane R at Mt Crosby # 14.26m rising 03:07 PM MON 10/01/11

Brisbane R at Colleges Crossing # 11.96m rising 03:09 PM MON 10/01/11

Bremer R at Spressers Br # 5.07m rising 03:09 PM MON 10/01/11

Bremer R at Rosewood # 4.94m rising 03:02 PM MON 10/01/11

Bremer R at Five Mile Br Walloon # 5.12m falling 03:09 PM MON 10/01/11

Warrill Ck at Harrisville # 3.82m rising 03:05 PM MON 10/01/11

Warrill Ck at Amberley DNR * 5.34m rising 08:10 AM MON 10/01/11

Bremer R at Ipswich # 6.6m rising 02:40 PM MON 10/01/11

Brisbane R at Moggill # 5.52m rising 02:59 PM MON 10/01/11

Brisbane R at Jindalee Br # 3.7m rising 02:50 PM MON 10/01/11

Brisbane R at City Gauge # 1.36m falling 03:09 PM MON 10/01/11

*automatic station

Warnings and River Height Bulletins are available at

<http://www.bom.gov.au/qld/flood/> . Flood Warnings are also available on

telephone 1300 659 219 at a low call cost of 27.5 cents, more from mobile,

public and satellite phones.

This message has passed through an insecure network.

Please direct all enquiries to the message author.

BOM Alert

From: Flood Information Centre [REDACTED]
To: Flood Information Centre [REDACTED]
Date: Mon, 10 Jan 2011 17:05:23 +1000

BOM:

Australian Government Bureau of Meteorology

Queensland

Broadcasters are directed to use the SEWS for this warning.

TOP PRIORITY

FLASH FLOOD WARNING FOR LOCKYER CREEK

Issued at 5:00 PM on Monday the 10th of January 2011

by the Bureau of Meteorology, Brisbane.

Very heavy rainfalls have been recorded in the Toowoomba area and caused extreme flash flooding. This rainfall is also causing extreme rises in the upper Lockyer Creek at Helidon with very fast and dangerous rises possible downstream at Gatton in the next few hours. Rises will extend downstream of Gatton during tonight.

Heavy rain areas and thunderstorms are expected to continue through the

Southeast Coast district, far southern parts of the Wide Bay and Burnett

District and eastern parts of the Darling Downs and Granite Belt district. Heavy

falls may lead to localised flash flooding and/or worsen existing river

flooding.

Further rises and flash flooding are likely in the creeks and streams around

Brisbane and Ipswich associated with the heaviest rainfall.

Flood warnings are current for the Mary River, Sunshine Coast streams and the

Upper Brisbane and Lower Brisbane rivers. A severe weather warning is also

current for this region.

Next Issue:

The next warning will be issued at about 8:30pm Monday.

Latest River Heights:

nil.

Warnings and River Height Bulletins are available at

<http://www.bom.gov.au/qld/flood/> . Flood Warnings are also available on

telephone 1300 659 219 at a low call cost of 27.5 cents, more from mobile,

public and satellite phones.

This message has passed through an insecure network.

Please direct all enquiries to the message author.

BOM Alert

From: Flood Information Centre [REDACTED]
To: Flood Information Centre [REDACTED]
Date: Mon, 10 Jan 2011 17:15:40 +1000

BOM:

Australian Government Bureau of Meteorology

Queensland

TOP PRIORITY FOR IMMEDIATE BROADCAST

SEVERE WEATHER WARNING

for heavy rainfall leading to localised flash flooding and potentially worsening the existing river flood situation

For people in the Southeast Coast district, far southern parts of the Wide Bay and Burnett district and eastern parts of the Darling Downs and Granite Belt district.

Issued at 5:05 pm on Monday 10 January 2011

Synoptic Situation: At 4pm EST, an upper level low was located over the west of the Wide Bay and Burnett district. A surface trough was located off the east Queensland coast. The upper low is forecast to move southwest over the southern interior of Queensland while the surface trough remains slow moving.

Heavy rain areas and thunderstorms are expected to continue through the Southeast Coast district and eastern parts of the Darling Downs and Granite Belt district. Heavy falls may lead to localised flash flooding and/or worsen

existing river flooding.

The heavy rain areas and thunderstorms are expected to contract southwards and gradually ease in the Southeast Coast district and eastern parts of the Darling Downs and Granite Belt district later on Tuesday.

Rainfall has eased in far southern parts of the Wide Bay and Burnett district and therefore the warning for this district is now CANCELLED.

Recent events: In the 24 hours to 9am EST Monday, Maleny received 321mm, West Bellthorpe 310 mm and Peachester 298 mm.

In the 7 hours since 9am EST Monday, Redbank Creek received 126mm, Toowoomba Airport 88mm and Mt Castle 80mm.

Flood warnings are current for various rivers and streams in these districts; refer to these products [www.bom.gov.au/qld] for further information.

The State Emergency Service advises that people in the affected area should:

öýö avoid driving, walking or riding through flood waters

öýö take care on the roads, especially in heavy downpours

öýö avoid swimming in swollen rivers and creeks

Contact the SES on 132 500 for emergency assistance if required.

The next warning is due to be issued by 11pm Monday.

This warning is also available through TV and Radio broadcasts; the Bureau's website at www.bom.gov.au or call 1300 659 219. The Bureau and State Emergency Service would appreciate this warning being broadcast regularly.

This message has passed through an insecure network.

Please direct all enquiries to the message author.

BOM Alert

From: Flood Information Centre [REDACTED]
To: Flood Information Centre [REDACTED]
Date: Mon, 10 Jan 2011 17:24:56 +1000

BOM:

Australian Government Bureau of Meteorology

Queensland

**FLOOD WARNING FOR THE STANLEY RIVER AND BRISBANE RIVER ABOVE
WIVENHOE DAM**

Issued at 5:22 PM on Monday the 10th of January 2011

by the Bureau of Meteorology, Brisbane.

Rainfall of between 50-75mm has been recorded in the Cressbrook Creek

catchment with localised totals in excess of 125mm. Major flood levels continue

at Gregor Creek and at Rosentretter's Bridge although levels are currently

easing. Further rises are possible as heavy rainfall is forecast into Tuesday.

UPPER BRISBANE RIVER:

Moderate to major flooding continues in much of the upper Brisbane catchment.

Flood levels are now easing although further rainfall is forecast for the

remainder of today and into Tuesday.

STANLEY RIVER:

Minor to moderate flood levels are easing in the Stanley River at Peachester and Woodford. Further rises are possible during the next 24 hours as rainfall continues.

Next Issue:

The next warning will be issued by 9am Tuesday.

Latest River Heights:

| | |
|--------------------------------|--------------------------------------|
| Stanley R at Peachester # | 7.06m falling 05:07 PM MON 10/01/11 |
| Stanley R at Woodford # | 7.38m falling 05:07 PM MON 10/01/11 |
| Kilcoy Ck d/s Mt Kilcoy Weir # | 5.55m steady 05:09 PM MON 10/01/11 |
| Stanley R at Somerset Dam HW # | 103.34m rising 04:20 PM MON 10/01/11 |
| Cooyar Ck at Cooyar Ck # | 4.48m falling 05:09 PM MON 10/01/11 |

Brisbane R at Linville # 4.94m falling 05:09 PM MON 10/01/11

Brisbane R at Devon Hills # 6.11m falling 05:02 PM MON 10/01/11

Emu Ck at Boat Mountain # 5.84m rising 05:01 PM MON 10/01/11

Maronghi Ck at Glendale * 4.37m rising 04:30 PM MON 10/01/11

Brisbane R at Gregor Ck # 8.62m steady 04:53 PM MON 10/01/11

Cressbrook Ck at Rosentreter's Br # 6.66m falling 05:06 PM MON 10/01/11

Esk Ck at Falls Rd * 3.95m falling 10:40 AM MON 10/01/11

Splityard Creek Dam # 162.7m rising 05:06 PM MON 10/01/11

Brisbane R at Wivenhoe Dam HW # 72.83m falling 05:07 PM MON 10/01/11

Brisbane R at Wivenhoe Dam TW # 39.92m rising 05:03 PM MON 10/01/11

*,# from automatic station

Flood Warnings are also available on telephone 1300 659 219 at a low call cost

of 27.5 cents, more from mobile, public and satellite phones.

This message has passed through an insecure network.

Please direct all enquiries to the message author.

BOM Alert

From: Flood Information Centre [REDACTED]
To: Flood Information Centre [REDACTED]
Date: Mon, 10 Jan 2011 18:15:14 +1000

BOM:

Australian Government Bureau of Meteorology

Queensland

PRIORITY

FLOOD WARNING FOR THE LOCKYER, BREMER, WARRILL AND BRISBANE RIVER
BELOW WIVENHOE

INCLUDING BRISBANE CITY

Issued at 6:12 PM on Monday the 10th of January 2011

by the Bureau of Meteorology, Brisbane.

LOCKYER CREEK: Further rainfall during Monday has led to extreme rises in the

Lockyer Creek catchment at Helidon and Laidley Creek at Mulgowie. These will

extend to Gatton and areas downstream during the evening and overnight. Severe

record major flooding is expected in areas downstream of Gatton overnight and

during Tuesday.

Stream level rises causing moderate to major flooding are being recorded in

Lockyer Creek, Warrill Creek and along the Bremer River. Major flood levels

are likely at Ipswich during Tuesday.

Wivenhoe dam is providing significant mitigation of upper Brisbane floods. River

flows from the Bremer and Lockyer catchments combined with releases from

Wivenhoe dam are expected to increase levels in Brisbane overnight and through Tuesday.

At the Brisbane City Gauge, a river levels of about 2.1 metres is expected with the afternoon high tide on Tuesday and about 3 metres is expected with the high tides on Wednesday causing moderate flooding.

(3 metres at the Brisbane City gauge is about 1.5 metres higher than the highest tide of the year at this location).

LOCKYER CREEK:

Further rainfall during Monday has led to extreme rises in the Lockyer Creek

catchment at Helidon and Laidley Creek at Mulgowie. These will extend to Gatton

and areas downstream during the evening and overnight. High level record major

flooding is expected in areas downstream of Gatton overnight and during Tuesday.

BREMER RIVER:

Rainfall during Monday will lead to renewed rises and a return to moderate flood

levels along the Bremer River to Walloon. Levels over 5 metres are expected at

Rosewood overnight.

The Bremer River at Ipswich is expected to reach about 12.7 metres on Tuesday afternoon. Higher levels are possible.

WARRILL CREEK

Further rainfall during Monday will lead to increasing river levels along

Warrill Creek with levels expected to reach above 6 metres at Amberley overnight.

MIDDLE AND LOWER BRISBANE:

SEQwater advises releases from Wivenhoe Dam will increase during Monday.

Moderate flooding is expected at Savages Crossing and at Mt Crosby Weir overnight tonight and during Tuesday.

The Brisbane River at the City Gauge (lower end of Edward Street and at Thornton

Street) is expected to reach about 2.1 metres with the afternoon high tide on

Tuesday and reach about 3 metres with the high tides on Wednesday causing

moderate flooding.

(3 metres at the Brisbane City gauge is about 1.5 metres higher than the highest

tide of the year at this location).

Predicted River Heights/Flows:

Ipswich: Reach about 12.7 metres (major) during Tuesday afternoon. Quicker

rises and higher levels are possible depending on further

rainfall tonight.

Moggill: Reach about 12 metres (minor) during Tuesday afternoon.

Jindalee: Reach about 7 metres (minor) overnight Tuesday.

Brisbane: Reach about 2.1 metres with the afternoon high tide on Tuesday.

Reach about 3 metres with the high tides on Wednesday causing

moderate flooding.

(3 metres at the Brisbane City gauge is about 1.5 metres higher than the highest

tide of the year at this location).

Further rises are possible at all four locations depending on further rain.

Next Issue:

The next warning will be issued at about 9pm Monday.

Latest River Heights:

Lockyer Ck at Helidon * 12.66m rising 02:50 PM MON 10/01/11

Lockyer Ck at Helidon # 12.68m steady 03:02 PM MON 10/01/11

Flagstone Ck at Brown-Zirbels Rd * 3.27m falling 08:20 AM MON 10/01/11

Sandy Creek at Sandy Creek Road # 3.8m falling 05:22 PM MON 10/01/11

Ma Ma Ck at Harm's * 2.28m falling 08:10 AM MON 10/01/11

Tenthill Ck at Tenthill * 4.53m rising 04:10 PM MON 10/01/11

Lockyer Ck at Gatton * 9.07m rising 05:30 PM MON 10/01/11

Lockyer Ck at Gatton # 13.22m rising 05:30 PM MON 10/01/11

Laidley Ck at Mulgowie * 7.88m rising 04:00 PM MON 10/01/11

Laidley Ck at Laidley 6m rising 02:45 PM MON 10/01/11

Laidley Ck at Showground Weir * 8.95m rising 05:30 PM MON 10/01/11

Laidley Ck at Showground Weir # 9m rising 05:31 PM MON 10/01/11

Laidley Ck at Warrego Hwy * 5.28m falling 03:00 PM MON 10/01/11

Lockyer Ck at Glenore Grove # 10.78m falling 05:24 PM MON 10/01/11

Lockyer Ck at Lyons Br # 14.93m rising 05:05 PM MON 10/01/11

Lockyer Ck at Rifle Range Rd * 14.85m rising 05:30 PM MON 10/01/11

Lockyer Ck at O'Reilly's Weir # 16.38m rising 05:29 PM MON 10/01/11

Brisbane R at Lowood Pump Stn # 14.53m falling 05:28 PM MON 10/01/11

Brisbane R at Savages Crossing # 14.37m rising 05:29 PM MON 10/01/11

Brisbane R at Burtons Br # 11.08m rising 05:23 PM MON 10/01/11

Brisbane R at Kholo Br # 6.63m rising 05:28 PM MON 10/01/11

Brisbane R at Mt Crosby # 14.64m rising 05:31 PM MON 10/01/11

Brisbane R at Mt Crosby # 14.08m falling 04:39 PM MON 10/01/11

Brisbane R at Colleges Crossing # 12.41m rising 05:33 PM MON 10/01/11

Bremer R at Stokes Crossing # 4.6m falling 05:20 PM MON 10/01/11

Warrill Ck at Churchbank Weir * 2.35m rising 05:30 PM MON 10/01/11

Warrill Ck at Greens Rd Amberley # 5.6m rising 05:26 PM MON 10/01/11

Bremer R at One Mile Br # 11.8m steady 05:03 PM MON 10/01/11

Bremer R at Hancocks Br Brassall # 9.28m rising 04:33 PM MON 10/01/11

Bremer R at Ipswich # 6.85m steady 05:27 PM MON 10/01/11

Brisbane R at Moggill # 5.87m rising 05:18 PM MON 10/01/11

Brisbane R at Jindalee Br # 3.75m steady 04:07 PM MON 10/01/11

Brisbane R at City Gauge # 0.81m falling 05:21 PM MON 10/01/11

*automatic station

Warnings and River Height Bulletins are available at

<http://www.bom.gov.au/qld/flood/> . Flood Warnings are also available on

telephone 1300 659 219 at a low call cost of 27.5 cents, more from mobile,

public and satellite phones.

This message has passed through an insecure network.

Please direct all enquiries to the message author.

BOM Alert

From: Flood Information Centre [REDACTED]
To: Flood Information Centre [REDACTED]
Date: Mon, 10 Jan 2011 18:35:45 +1000

BOM:

Australian Government Bureau of Meteorology

Queensland

TOP PRIORITY FOR IMMEDIATE BROADCAST

SEVERE WEATHER WARNING

for heavy rainfall leading to localised flash flooding and potentially worsening
the existing river flood situation

For people in the Southeast Coast, Darling Downs and Granite Belt and eastern
parts of the Maranoa and Warrego districts.

Issued at 6:30 pm on Monday 10 January 2011

Synoptic Situation: At 6pm EST, an upper level low was located over the west of
the Wide Bay and Burnett district. A surface trough was located off the east
Queensland coast. The upper low is forecast to move southwest over the southern
interior of Queensland while the surface trough remains slow moving.

Heavy rain areas and thunderstorms are expected to continue through the
Southeast Coast, Darling Downs and Granite Belt and eastern parts of the Maranoa
and Warrego districts this evening. Heavy falls may lead to localised flash
flooding and/or worsen existing river flooding.

The heavy rain areas and thunderstorms are expected to contract into the Southeast Coast and eastern parts of the Darling Downs and Granite Belt districts during Tuesday. These conditions should gradually ease later in the day.

Recent events: In the 24 hours to 9am EST Monday, Maleny received 321mm, West Bellthorpe 310 mm and Peachester 298 mm.

In the 7 hours since 9am EST Monday, Redbank Creek received 126mm, Toowoomba Airport 88mm and Mt Castle 80mm.

Flood warnings are current for various rivers and streams in these districts; refer to these products [www.bom.gov.au/qld] for further information.

The State Emergency Service advises that people in the affected area should:

• avoid driving, walking or riding through flood waters

• take care on the roads, especially in heavy downpours

• avoid swimming in swollen rivers and creeks

Contact the SES on 132 500 for emergency assistance if required.

The next warning is due to be issued by 11pm Monday.

This warning is also available through TV and Radio broadcasts; the Bureau's website at www.bom.gov.au or call 1300 659 219. The Bureau and State Emergency Service would appreciate this warning being broadcast regularly.

This message has passed through an insecure network.

Please direct all enquiries to the message author.

BOM Alert

From: Flood Information Centre [REDACTED]
To: Flood Information Centre [REDACTED]
Date: Mon, 10 Jan 2011 18:35:58 +1000

BOM: TO::BOM552

RIVER HEIGHT BULLETIN for Brisbane, Pine, Caboolture Rivers and tributaries

Issued at 6.30pm on Monday, 10 January 2011

Bureau of Meteorology, Brisbane

| Station Name | Time | Height | Trend | Crossing |
|--------------|------|--------|-------|----------|
|--------------|------|--------|-------|----------|

Stanley/Upper Brisbane

| | | | |
|-----------------------------|--------|------|---------------------|
| Stanley R at Peachester # | 6.28pm | 6.80 | F |
| Stanley R at Peachester * | 5.30pm | 6.96 | F |
| Stanley R at Woodford * | 5.40pm | 7.33 | F 0.93 above bridge |
| Stanley R at Woodford # | 6.28pm | 7.20 | F 0.80 above bridge |
| Stanley R at Woodford # | 6.29pm | 7.22 | F 0.82 above bridge |
| Cooyar Ck at Cooyar Ck * | 5.00pm | 4.49 | F |
| Brisbane R at Linville # | 6.24pm | 4.72 | R |
| Brisbane R at Linville * | 5.50pm | 4.85 | F |
| Brisbane R at Devon Hills # | 6.29pm | 5.87 | F |
| Emu Ck at Boat Mountain # | 6.28pm | 5.96 | R |

Emu Ck at Boat Mountain * 5.30pm 5.93 R

Brisbane R at Gregor Ck # 6.29pm 8.50 F

Brisbane R at Gregor Ck * 5.00pm 6.30 F

Cressbrook Ck at Rosentreter's Br # 6.27pm 6.20 F

Cressbrook Ck at Rosentreter's Br * 5.30pm 6.53 F

Lower Brisbane

Lockyer Ck at Helidon # 3.02pm 12.68

Lockyer Ck at Helidon * 2.50pm 12.66 R

Sandy Creek at Sandy Creek Road # 6.27pm 3.50 R 1.60 above crossing

Tenthill Ck at Tenthill * 5.30pm 4.97 R

Lockyer Ck at Gatton # 5.15pm 11.26

Laidley Ck at Mulgowie * 5.30pm 7.46 F 0.36 above bridge

Laidley Ck at Laidley 6.00pm 8.60 RS 0.10 above bridge

Laidley Ck at Showground Weir # 6.22pm 9.24 F 5.09 above weir

Laidley Ck at Showground Weir * 5.40pm 8.99 R 4.84 above weir

Laidley Ck at Warrego Hwy * 5.00pm 5.21 F

Lockyer Ck at Glenore Grove # 6.28pm 10.80 R

Lockyer Ck at Lyons Br # 6.08pm 14.97 R

Lockyer Ck at Rifle Range Rd * 5.40pm 14.86 R

Lockyer Ck at O'Reilly'S Weir # 6.29pm 16.62 R 8.96 above weir

Lockyer Ck at O'Reilly'S Weir * 5.30pm 16.53 R 8.87 above weir

Brisbane R at Savages Crossing # 6.27pm 14.43 F 11.53 above bridge

Brisbane R at Savages Crossing * 5.40pm 14.44 R 11.54 above bridge

Brisbane R at Mt Crosby # 6.28pm 14.74 S 2.39 above bridge

Brisbane R at Mt Crosby # 4.39pm 14.08 F 1.73 above bridge

Bremer R at Adams Br # 6.27pm 3.69 F

Bremer R at Adams Br * 5.10pm 4.24 F

Bremer R at Stokes Crossing # 5.58pm 4.55 F 3.45 above causeway

Bremer R at Spresters Br # 6.12pm 5.52 R 0.72 above bridge

Western Ck at Grandchester # 6.28pm 2.98 F 1.62 below bridge

Western Ck at Rosewood Wwtp # 6.29pm 6.53 S 0.72 below approaches

Bremer R at Rosewood# 6.30pm 5.31 R 0.11 above bridge

Bremer R at Rosewood # 6.29pm 5.32 R 0.12 above bridge

Bremer R at Rosewood 3.00pm 5.00 RS 0.20 below bridge

Bremer R at Five Mile Br Walloon # 6.18pm 5.10 R 0.60 above approaches

Bremer R at Walloon Derm * 5.00pm 6.22 F

Warrill Ck at Kalbar Weir Hw # 6.27pm 78.87 F 4.10 above weir

Warrill Ck at Kalbar Weir Hw * 5.30pm 79.11 F 4.34 above weir

Warrill Ck at Kalbar Weir Tw * 5.40pm 8.39 F

Warrill Ck at Kalbar 6.00pm 9.95 P 2.95 above bridge

Warrill Ck at Harrisville# 6.21pm 4.65 R 0.85 below bridge

Warrill Ck at Harrisville # 6.26pm 4.78 R 0.72 below bridge

Warrill Ck at Churchbank Weir # 5.49pm 2.41 R 2.41 above weir

Warrill Ck at Churchbank Weir * 5.30pm 2.35 R 2.35 above weir

Warrill Ck at Greens Rd Amberley # 6.29pm 5.82 R

Warrill Ck at Amberley Dnr * 5.40pm 6.53 R

Purga Ck at Peak Crossing # 6.20pm 3.76 R 1.34 below bridge

Purga Ck at Loamside * 5.40pm 6.53 R

Bremer R at One Mile Br # 6.13pm 11.85 R 5.35 below bridge

Bremer R at Hancocks Br Brassall # 5.33pm 9.33 R 4.47 below bridge

Bremer R at Ipswich # 5.51pm 6.90 R 17.98 below bridge

Ipswich/Brisbane Creeks

Bundamba Ck Harding St Raceview # 6.26pm 24.53 F

Bundamba Ck at Blackstone Br # 6.14pm 19.14 R 1.66 below bridge

Bundamba Ck at Bundamba School # 6.23pm 14.88 R 1.42 below bridge

Woogaroo Ck at Opossum # 6.29pm 22.45 F

Oxley Ck New Beith Rd Greenbank * 5.40pm 4.53 F

Oxley Ck Beatty Rd Archerfield # 6.15pm 4.66 R

Blunder Ck King Ave Durack # 3.43pm 7.44 R

Oxley Ck Mouth # 6.08pm 2.34 F

Enoggera Reservoir # 6.25pm 76.48 S 2.11 above full supply

Enoggera Ck Bancroft Pk K Grove # 5.56pm 3.25 F

Pine/Caboolture

South Pine R at Cash'S Crossing# 6.20pm 2.90 F

South Pine R at Normanby Way# 6.22pm 2.79 R

North Pine R at Youngs Crossing# 6.20pm 6.52 F

Trend

S steady RS rising slowly FS falling slowly

P peak R rising F falling

EP estimated peak RF rising fast FF falling fast

Notes:

1. All heights are in metres.

2. Stations marked with [^] indicate heights above AHD.
3. Data from automatic stations [* or #] have not been checked & may have errors.
4. This product includes data made available to the Bureau by other agencies.

Separate approval may be required to use the data for other purposes. Refer to

Flood Gauge Information for station ownership.

This message has passed through an insecure network.

Please direct all enquiries to the message author.

BOM Alert

From: Flood Information Centre [REDACTED]
To: Flood Information Centre [REDACTED]
Date: Mon, 10 Jan 2011 19:55:50 +1000

BOM:

Australian Government Bureau of Meteorology

Queensland

TOP PRIORITY FOR IMMEDIATE BROADCAST

SEVERE WEATHER WARNING

for heavy rainfall leading to localised flash flooding and potentially worsening
the existing river flood situation

For people in the Southeast Coast, Darling Downs and Granite Belt, far southern
parts of the Wide Bay and Burnett and eastern parts of the Maranoa and Warrego
districts.

Issued at 7:50 pm on Monday 10 January 2011

Synoptic Situation: At 7pm EST, an upper level low was located over the west of
the Wide Bay and Burnett district. A surface trough was located off the east
Queensland coast. The upper low is forecast to move southwest over the southern
interior of Queensland while the surface trough remains slow moving.

Heavy rain areas and thunderstorms are expected to continue through the
Southeast Coast, Darling Downs and Granite Belt, far southern parts of the Wide
Bay and Burnett and eastern parts of the Maranoa and Warrego districts this

evening and overnight. Heavy falls may lead to localised flash flooding and/or worsen existing river flooding.

The heavy rain areas and thunderstorms are expected to contract into the Southeast Coast and eastern parts of the Darling Downs and Granite Belt districts during Tuesday. These conditions should gradually ease later in the day.

Recent events: In the 24 hours to 9am EST Monday, Maleny received 321mm, West Bellthorpe 310 mm and Peachester 298 mm.

In the 7 hours since 9am EST Monday, Redbank Creek received 126mm, Toowoomba Airport 88mm and Mt Castle 80mm.

Flood warnings are current for various rivers and streams in these districts; refer to these products [www.bom.gov.au/qld] for further information.

The State Emergency Service advises that people in the affected area should:

• avoid driving, walking or riding through flood waters

• take care on the roads, especially in heavy downpours

• avoid swimming in swollen rivers and creeks

Contact the SES on 132 500 for emergency assistance if required.

The next warning is due to be issued by 11pm Monday.

This warning is also available through TV and Radio broadcasts; the Bureau's website at www.bom.gov.au or call 1300 659 219. The Bureau and State Emergency Service would appreciate this warning being broadcast regularly.

This message has passed through an insecure network.

Please direct all enquiries to the message author.

BOM Alert

From: Flood Information Centre [REDACTED]
To: Flood Information Centre [REDACTED]
Date: Mon, 10 Jan 2011 20:45:40 +1000

BOM:

Australian Government Bureau of Meteorology

Queensland

Broadcasters in the Lockyer Valley area are directed to use the SEWS for this

warning.

TOP PRIORITY

FLASH FLOOD WARNING FOR LOCKYER CREEK

Issued at 8:37 PM on Monday the 10th of January 2011

by the Bureau of Meteorology, Brisbane.

Very heavy rainfalls have been recorded in the Toowoomba, Crows Nest and Gatton

area and have caused extreme rises in the upper Lockyer Creek between Helidon

and Gatton with the peak currently arriving in the Glenore Grove area.

Record flood levels of 18.92 metres were recorded at Gatton this evening before

the station failed. This level is well above the previous record peak of 16.33

metres from the February 1893 flood.

Very fast and dangerous rises are occurring downstream of Gatton to Glenore

Grove and will extend downstream to Lyons Bridge and O'Reilly Weir during Monday

night and Tuesday morning.

Contact the SES on 132 500 for emergency assistance if required.

Next Issue:

The next warning will be issued at about midnight Monday.

Warnings and River Height Bulletins are available at

<http://www.bom.gov.au/qld/flood/> . Flood Warnings are also available on

telephone 1300 659 219 at a low call cost of 27.5 cents, more from mobile,

public and satellite phones.

This message has passed through an insecure network.

Please direct all enquiries to the message author.

BOM Alert

From: Flood Information Centre [REDACTED]
To: Flood Information Centre [REDACTED]
Date: Mon, 10 Jan 2011 21:35:44 +1000

BOM: TO::BOM552

RIVER HEIGHT BULLETIN for Brisbane, Pine, Caboolture Rivers and tributaries

Issued at 9.31pm on Monday, 10 January 2011

Bureau of Meteorology, Brisbane

| Station Name | Time | Height | Trend | Crossing |
|--------------|------|--------|-------|----------|
|--------------|------|--------|-------|----------|

Stanley/Upper Brisbane

| | | | | |
|-----------------------------|--------|------|---|-------------------|
| Stanley R at Peachester # | 9.25pm | 6.10 | F | |
| Stanley R at Peachester * | 8.20pm | 6.32 | F | |
| Stanley R at Woodford * | 8.40pm | 6.97 | F | 0.57 above bridge |
| Stanley R at Woodford # | 9.22pm | 6.88 | F | 0.48 above bridge |
| Stanley R at Woodford # | 9.20pm | 6.90 | F | 0.50 above bridge |
| Cooyar Ck at Cooyar Ck * | 8.00pm | 4.19 | F | |
| Brisbane R at Linville # | 9.15pm | 4.38 | F | |
| Brisbane R at Linville * | 5.50pm | 4.85 | F | |
| Brisbane R at Devon Hills # | 9.20pm | 5.39 | F | |
| Emu Ck at Boat Mountain # | 9.22pm | 5.58 | F | |

Emu Ck at Boat Mountain * 8.30pm 5.76 S

Brisbane R at Gregor Ck # 9.26pm 7.58 F

Brisbane R at Gregor Ck * 8.30pm 5.53 F

Cressbrook Ck at Rosentreter's Br # 9.24pm 5.06 F

Cressbrook Ck at Rosentreter's Br * 8.30pm 5.37 F

Lower Brisbane

Sandy Creek at Sandy Creek Road # 9.16pm 2.75 R 0.85 above crossing

Tenthill Ck at Tenthill * 8.40pm 4.52 F

Lockyer Ck at Gatton # 5.46pm 13.70

Laidley Ck at Mulgowie * 8.30pm 6.30 F 0.80 below bridge

Laidley Ck at Laidley 6.00pm 8.60 RS 0.10 above bridge

Laidley Ck at Showground Weir # 9.22pm 9.22 F 5.07 above weir

Laidley Ck at Showground Weir * 8.30pm 9.25 R 5.10 above weir

Laidley Ck at Warrego Hwy * 8.00pm 5.38 R

Lockyer Ck at Glenore Grove # 9.22pm 14.48 R

Lockyer Ck at Lyons Br # 9.26pm 15.13 R

Lockyer Ck at Rifle Range Rd * 8.40pm 14.99 R

Lockyer Ck at O'Reilly'S Weir # 9.27pm 17.22 R 9.56 above weir

Lockyer Ck at O'Reilly'S Weir * 8.30pm 17.21 R 9.55 above weir

Brisbane R at Savages Crossing # 9.23pm 14.85 11.95 above bridge

Brisbane R at Savages Crossing * 8.40pm 14.76 F 11.86 above bridge

Brisbane R at Mt Crosby # 9.27pm 15.09 S 2.74 above bridge

Bremer R at Adams Br * 8.20pm 3.17 S

Bremer R at Stokes Crossing # 9.20pm 3.85 F 2.75 above causeway

Bremer R at Spresters Br # 9.17pm 5.67 F 0.87 above bridge

Western Ck at Rosewood Wwtp # 9.29pm 6.53 S 0.72 below approaches

Bremer R at Rosewood# 9.14pm 5.66 R 0.46 above bridge

Bremer R at Rosewood # 9.20pm 5.68 R 0.48 above bridge

Bremer R at Five Mile Br Walloon # 9.27pm 5.52 R 1.02 above approaches

Bremer R at Walloon Derm * 8.00pm 6.21 R

Warrill Ck at Kalbar Weir Hw # 9.24pm 77.77 F 3.00 above weir

Warrill Ck at Kalbar Weir Hw * 8.30pm 78.12 F 3.35 above weir

Warrill Ck at Kalbar Weir Tw * 8.40pm 7.81 F

Warrill Ck at Kalbar 6.00pm 9.95 P 2.95 above bridge

Warrill Ck at Harrisville# 8.39pm 4.95 R 0.55 below bridge

Warrill Ck at Harrisville # 9.20pm 5.12 R 0.38 below bridge

Warrill Ck at Churchbank Weir # 8.39pm 2.52 R 2.52 above weir

Warrill Ck at Churchbank Weir * 8.15pm 2.46 R 2.46 above weir

Warrill Ck at Greens Rd Amberley # 9.29pm 5.96 R

Warrill Ck at Amberley Dnr * 8.30pm 6.83 R

Purga Ck at Peak Crossing # 9.26pm 2.91 F 2.19 below bridge

Purga Ck at Loamside * 8.30pm 7.74 R

Bremer R at One Mile Br # 9.27pm 12.30 R 4.90 below bridge

Bremer R at Hancocks Br Brassall # 9.23pm 9.68 R 4.12 below bridge

Bremer R at Ipswich # 9.21pm 7.25 R 17.63 below bridge

Ipswich/Brisbane Creeks

Bundamba Ck Harding St Raceview # 8.58pm 24.33 F

Bundamba Ck at Blackstone Br # 9.22pm 18.89 F 1.91 below bridge

Bundamba Ck at Bundamba School # 9.22pm 14.98 F 1.32 below bridge

Woogaroo Ck at Opossum # 9.12pm 21.80 F

Oxley Ck New Beith Rd Greenbank * 8.40pm 3.83 F

Oxley Ck Beatty Rd Archerfield # 9.13pm 4.84 R

Blunder Ck King Ave Durack # 8.35pm 7.40

Oxley Ck Mouth # 7.41pm 2.24 F

Enoggera Reservoir # 9.19pm 76.31 S 1.94 above full supply

Enoggera Ck Bancroft Pk K Grove # 9.18pm 3.11 F

Pine/Caboolture

South Pine R at Cash'S Crossing# 9.10pm 2.65 F

South Pine R at Normanby Way# 9.28pm 2.04 F

North Pine R at Youngs Crossing# 9.25pm 5.67 F

Trend

S steady RS rising slowly FS falling slowly

P peak R rising F falling

EP estimated peak RF rising fast FF falling fast

Notes:

1. All heights are in metres.
2. Stations marked with [^] indicate heights above AHD.
3. Data from automatic stations [* or #] have not been checked & may have errors.
4. This product includes data made available to the Bureau by other agencies.

Separate approval may be required to use the data for other purposes. Refer to

Flood Gauge Information for station ownership.

This message has passed through an insecure network.

Please direct all enquiries to the message author.

BOM Alert

From: Flood Information Centre [REDACTED]
To: Flood Information Centre [REDACTED]
Date: Mon, 10 Jan 2011 21:45:18 +1000

BOM:

Australian Government Bureau of Meteorology

Queensland

PRIORITY

FLOOD WARNING FOR THE LOCKYER, BREMER, WARRILL AND BRISBANE RIVER
BELOW WIVENHOE

INCLUDING BRISBANE CITY

Issued at 9:44 PM on Monday the 10th of January 2011

by the Bureau of Meteorology, Brisbane.

LOCKYER CREEK: Further rainfall during Monday has led to extreme rises in the

Lockyer Creek catchment at Helidon and Gatton and Laidley Creek at Mulgowie.

Lockyer Creek at Gatton reached 19 metres, which is more than 2.5 metres above the previous record.

Rapid stream rises are occurring at Glenore Grove, and the river has reached

14.42 metres at 9pm. A peak in the next few hours is expected, with flood levels in excess of 15 metres possible.

Stream rises in the Lockyer Creek downstream are expected overnight, with the main flood waters reaching Lyons Bridge overnight.

Stream level rises causing moderate to major flooding are being recorded in

Lockyer Creek, Warrill Creek and along the Bremer River. Major flood levels

are likely at Ipswich during Tuesday.

Wivenhoe dam is providing significant mitigation of upper Brisbane floods. River

flows from the Bremer and Lockyer catchments combined with releases from

Wivenhoe dam are expected to increase levels in Brisbane overnight and through

Tuesday.

At the Brisbane City Gauge, a river levels of about 2.1 metres is expected with

the afternoon high tide on Tuesday and about 3 metres is expected with the high

tides on Wednesday causing moderate flooding.

(3 metres at the Brisbane City gauge is about 1.5 metres higher than the highest tide of the year at this location).

LOCKYER CREEK:

Further rainfall during Monday has led to extreme rises in the Lockyer Creek catchment at Helidon and Gatton and Laidley Creek at Mulgowie. These will extend to Lyons Bridge in the next few hours and areas downstream later Monday and early Tuesday. High level major flooding is expected in areas downstream of Gatton overnight and during Tuesday.

BREMER RIVER:

Rainfall during Monday will lead to renewed rises and a return to moderate flood

levels along the Bremer River to Walloon. Levels over 5 metres are expected at

Rosewood overnight.

The Bremer River at Ipswich is expected to reach about 12.7 metres on Tuesday

afternoon. Higher levels are possible.

WARRILL CREEK

Further rainfall during Monday will lead to increasing river levels along

Warrill Creek with levels expected to reach above 6 metres at Amberley

overnight.

MIDDLE AND LOWER BRISBANE:

SEQwater advises releases from Wivenhoe Dam will increase during Monday.

Moderate flooding is expected at Savages Crossing and at Mt Crosby Weir

overnight tonight and during Tuesday.

The Brisbane River at the City Gauge (lower end of Edward Street and at Thornton

Street) is expected to reach about 2.1 metres with the afternoon high tide on

Tuesday and reach about 3 metres with the high tides on Wednesday causing

moderate flooding.

(3 metres at the Brisbane City gauge is about 1.5 metres higher than the highest tide of the year at this location).

Predicted River Heights/Flows:

Ipswich: Reach about 12.7 metres (major) during Tuesday afternoon. Quicker

rises and higher levels are possible depending on further rainfall tonight.

Moggill: Reach about 12 metres (minor) during Tuesday afternoon.

Jindalee: Reach about 7 metres (minor) overnight Tuesday.

Brisbane: Reach about 2.1 metres with the afternoon high tide on Tuesday.

Reach about 3 metres with the high tides on Wednesday causing

moderate flooding.

(3 metres at the Brisbane City gauge is about 1.5 metres higher than the highest

tide of the year at this location).

Further rises are possible at all four locations depending on further rain.

Next Issue:

The next warning will be issued at about midnight Monday.

Latest River Heights:

Lockyer Ck at Helidon * 12.66m rising 02:50 PM MON 10/01/11

Flagstone Ck at Brown-Zirbels Rd * 4.28m falling 08:40 PM MON 10/01/11

Sandy Creek at Sandy Creek Road # 2.85m falling 08:49 PM MON 10/01/11

Ma Ma Ck at Harm's * 2.28m falling 08:10 AM MON 10/01/11

Tenthill Ck at Tenthill * 4.52m falling 08:40 PM MON 10/01/11

Lockyer Ck at Gatton * 18.92m rising 18:30 PM MON 10/01/11

Laidley Ck at Mulgowie * 6.68m falling 07:30 PM MON 10/01/11

Laidley Ck at Laidley 8.6m rising slowly 06:00 PM MON 10/01/11

Laidley Ck at Showground Weir # 9.22m rising 08:58 PM MON 10/01/11

Laidley Ck at Warrego Hwy * 5.38m rising 08:00 PM MON 10/01/11

Lockyer Ck at Glenore Grove # 14.42m rising 08:58 PM MON 10/01/11

Lockyer Ck at Lyons Br # 15.07m rising 08:56 PM MON 10/01/11

 Lockyer Ck at Rifle Range Rd * 14.99m rising 08:40 PM MON 10/01/11

 Lockyer Ck at O'Reilly's Weir # 17.14m rising 08:55 PM MON 10/01/11

 Brisbane R at Lowood Pump Stn # 15.17m falling 08:58 PM MON 10/01/11

 Brisbane R at Savages Crossing * 14.76m falling 08:40 PM MON 10/01/11

 Brisbane R at Savages Crossing # 14.87m steady 08:53 PM MON 10/01/11

 Brisbane R at Burtons Br # 11.44m rising 08:47 PM MON 10/01/11

 Brisbane R at Kholo Br # 7.09m rising 08:47 PM MON 10/01/11

 Brisbane R at Mt Crosby # 15.05m rising 08:57 PM MON 10/01/11

 Brisbane R at Colleges Crossing # 12.91m rising 09:00 PM MON 10/01/11

 Warrill Ck at Greens Rd Amberley # 5.92m falling 08:56 PM MON 10/01/11

 Bremer R at One Mile Br # 12.2m rising 08:59 PM MON 10/01/11

Bremer R at Hancocks Br Brassall # 9.58m rising 08:27 PM MON 10/01/11

Bremer R at Ipswich # 7.2m rising 08:56 PM MON 10/01/11

Brisbane R at Moggill # 6.12m rising 08:53 PM MON 10/01/11

Brisbane R at Jindalee Br # 3.75m steady 07:07 PM MON 10/01/11

Brisbane R at City Gauge * 0.41m steady 08:40 PM MON 10/01/11

Warnings and River Height Bulletins are available at

<http://www.bom.gov.au/qld/flood/> . Flood Warnings are also available on

telephone 1300 659 219 at a low call cost of 27.5 cents, more from mobile,

public and satellite phones.

This message has passed through an insecure network.

Please direct all enquiries to the message author.

BOM Alert

From: Flood Information Centre [REDACTED]
To: Flood Information Centre [REDACTED]
Date: Mon, 10 Jan 2011 23:05:36 +1000

BOM:

Australian Government Bureau of Meteorology

Queensland

TOP PRIORITY FOR IMMEDIATE BROADCAST

SEVERE WEATHER WARNING

for heavy rainfall leading to localised flash flooding and potentially worsening the existing river flood situation

For people in the Southeast Coast, Darling Downs and Granite Belt, far southern parts of the Wide Bay and Burnett and eastern parts of the Maranoa and Warrego districts.

Issued at 11:00 pm on Monday 10 January 2011

Synoptic Situation: At 10pm EST, an upper level low was located over the far southeast of the Central Highlands and Coalfields district. The upper low is forecast to move southwest over the southern interior of Queensland while weakening during Tuesday.

Heavy rain areas and thunderstorms are expected to continue through the Southeast Coast, Darling Downs and Granite Belt, far southern parts of the Wide Bay and Burnett and eastern parts of the Maranoa and Warrego districts tonight.

Heavy falls may lead to localised flash flooding and/or worsen existing river flooding.

The heavy rain areas and thunderstorms are expected to contract into the Southeast Coast and eastern parts of the Darling Downs and Granite Belt districts during Tuesday. These conditions should gradually ease later in the day.

Recent events: In the 1 hour to 11pm EST Monday, Monsildale and Mt Stanley [situated in northern parts of the Southeast Coast district] both received 58mm.

In the 13 hours since 9am EST Monday, Redbank Creek received 132mm, Ballon 124mm and Mt Castle 103mm.

Flood warnings are current for various rivers and streams in these districts; refer to these products [www.bom.gov.au/qld] for further information.

The State Emergency Service advises that people in the affected area should:

• avoid driving, walking or riding through flood waters

• take care on the roads, especially in heavy downpours

• avoid swimming in swollen rivers and creeks

Contact the SES on 132 500 for emergency assistance if required.

The next warning is due to be issued by 5am Tuesday.

This warning is also available through TV and Radio broadcasts; the Bureau's website at www.bom.gov.au or call 1300 659 219. The Bureau and State Emergency Service would appreciate this warning being broadcast regularly.

This message has passed through an insecure network.

Please direct all enquiries to the message author.

BOM Alert

From: Flood Information Centre [REDACTED]
To: Flood Information Centre [REDACTED]
Date: Tue, 11 Jan 2011 00:15:37 +1000

BOM:

Australian Government Bureau of Meteorology

Queensland

PRIORITY

FLOOD WARNING FOR THE LOCKYER, BREMER, WARRILL AND BRISBANE RIVER
BELOW WIVENHOE

INCLUDING BRISBANE CITY

Issued at 12:06 AM on Tuesday the 11th of January 2011

by the Bureau of Meteorology, Brisbane.

The main flood waters in the Lockyer Creek are now at Glenore Grove, with strong stream rises expected overnight and early Tuesday morning in the Lockyer Creek downstream of Glenore Grove.

Wivenhoe dam is providing significant mitigation of upper Brisbane floods. River flows from the Bremer and Lockyer catchments combined with releases from Wivenhoe dam are expected to increase levels in Brisbane overnight and through Tuesday.

At the Brisbane City Gauge, minor flood levels of about 2.1 metres are expected with the afternoon high tide on Tuesday and levels of about 3 metres are

expected with the high tides on Wednesday causing moderate flooding.

(3 metres at the Brisbane City gauge is about 1.5 metres higher than the highest tide of the year at this location).

LOCKYER CREEK:

Further rainfall during Monday has led to extreme rises in the Lockyer Creek

catchment and Laidley Creek at Mulgowie. Record flood levels of 18.92 metres

were recorded at Gatton this evening before the station failed. This level is

well above the previous record peak of 16.33 metres from the February 1893

flood.

The main flood waters are currently around Glenore Grove, with strong stream

rises at Lyons Bridge expected in the next few hours. The Lockyer Creek at

Glenore Grove has reached 14.60 metres at 11:30pm. A peak in the next few hours

is expected, with flood levels in excess of 15 metres possible.

Renewed stream rises have commenced at the Lockyer River at Lyons Bridge with a

peak between 16 and 16.5 metres expected early Tuesday morning.

BREMER RIVER:

The rainfall during Monday will lead to renewed rises and a return to moderate

flood levels along the Bremer River to Walloon. Levels between 5 and 6 metres

are expected at Rosewood overnight.

The Bremer River at Ipswich is expected to reach about 12.7 metres on Tuesday afternoon. Higher levels are possible.

WARRILL CREEK

The rainfall during Monday has lead to increases in Warrill Creek with Amberley currently peaking around 6 metres.

MIDDLE AND LOWER BRISBANE:

Moderate flooding is developing at Savages Crossing and at Mt Crosby Weir.

At the Brisbane City Gauge (lower end of Edward Street and at Thornton Street),

minor flood levels of about 2.1 metres are expected with the afternoon high tide

on Tuesday and levels of about 3 metres are expected with the high tides on

Wednesday causing moderate flooding.

(3 metres at the Brisbane City gauge is about 1.5 metres higher than the highest

tide of the year at this location).

Predicted River Heights/Flows:

Ipswich: Reach about 12.7 metres (major) during Tuesday afternoon.

Moggill: Reach about 12 metres (minor) during Tuesday afternoon.

Jindalee: Reach about 7 metres (minor) overnight Tuesday.

Brisbane: Reach about 2.1 metres (minor) with the afternoon high tide on

Tuesday. Reach about 3 metres (moderate) with the high tides on

Wednesday.

(3 metres at the Brisbane City gauge is about 1.5 metres higher than the highest

tide of the year at this location).

Further rises are possible at all four locations depending on further rain.

Next Issue:

The next warning will be issued at about 4am Tuesday.

Latest River Heights:

Lockyer Ck at Helidon # 12.68m steady 03:02 PM MON 10/01/11

Flagstone Ck at Brown-Zirbels Rd * 4.28m falling 08:40 PM MON 10/01/11

Sandy Creek at Sandy Creek Road # 2.45m rising 11:01 PM MON 10/01/11

Ma Ma Ck at Harm's * 2.28m falling 08:10 AM MON 10/01/11

Tenthill Ck at Tenthill * 4.07m falling 10:30 PM MON 10/01/11

Lockyer Ck at Gatton * 18.92m rising 6:30 PM MON 10/01/11

Laidley Ck at Mulgowie * 5.63m falling 10:10 PM MON 10/01/11

Laidley Ck at Laidley 8.7m falling slowly 10:00 PM MON 10/01/11

Laidley Ck at Showground Weir # 8.56m falling 11:16 PM MON 10/01/11

Bill Gunn Dam # 110.1m steady 11:14 PM MON 10/01/11

Laidley Ck at Warrego Hwy * 5.8m rising 09:50 PM MON 10/01/11

Lockyer Ck at Glenore Grove # 14.6m rising 11:12 PM MON 10/01/11

Lockyer Ck at Lyons Br # 15.17m rising 10:38 PM MON 10/01/11

Lockyer Ck at Rifle Range Rd * 14.99m rising 08:40 PM MON 10/01/11

Lockyer Ck at O'Reilly's Weir # 17.5m rising 11:16 PM MON 10/01/11

Brisbane R at Lowood Pump Stn # 15.45m rising 11:10 PM MON 10/01/11

Brisbane R at Savages Crossing # 15.25m falling 11:17 PM MON 10/01/11

Brisbane R at Burtons Br # 11.8m rising 11:14 PM MON 10/01/11

Brisbane R at Kholo Br # 7.41m rising 11:15 PM MON 10/01/11

Brisbane R at Mt Crosby # 15.31m rising 11:15 PM MON 10/01/11

Brisbane R at Colleges Crossing # 13.21m rising 11:18 PM MON 10/01/11

Warrill Ck at Greens Rd Amberley # 5.94m rising 11:08 PM MON 10/01/11

Bremer R at One Mile Br # 12.75m rising 11:08 PM MON 10/01/11

Bremer R at Hancocks Br Brassall # 10.13m rising 11:17 PM MON 10/01/11

Bremer R at Ipswich # 7.6m rising 11:17 PM MON 10/01/11

Brisbane R at Moggill # 6.42m rising 11:14 PM MON 10/01/11

Brisbane R at Jindalee Br # 3.9m rising 10:59 PM MON 10/01/11

Brisbane R at City Gauge # 1.05m rising 11:09 PM MON 10/01/11

Warnings and River Height Bulletins are available at

<http://www.bom.gov.au/qld/flood/> . Flood Warnings are also available on

telephone 1300 659 219 at a low call cost of 27.5 cents, more from mobile,

public and satellite phones.

This message has passed through an insecure network.

Please direct all enquiries to the message author.

BOM Alert

From: Flood Information Centre [REDACTED]
To: Flood Information Centre [REDACTED]
Date: Tue, 11 Jan 2011 00:25:41 +1000

BOM:

Australian Government Bureau of Meteorology

Queensland

TOP PRIORITY

FLASH FLOOD WARNING FOR LOCKYER CREEK

Issued at 12:19 AM on Tuesday the 11th of January 2011

by the Bureau of Meteorology, Brisbane.

Further rainfall during Monday has led to extreme rises in the Lockyer Creek

catchment and Laidley Creek at Mulgowie. Record flood levels of 18.92 metres

were recorded at Gatton this evening before the station failed. This level is

well above the previous record peak of 16.33 metres from the February 1893

flood.

The main flood waters are currently around Glenore Grove, with strong stream

rises at Lyons Bridge expected in the next few hours. The Lockyer Creek at

Glenore Grove has reached 14.60 metres at 11:30pm. A peak in the next few hours

is expected, with flood levels in excess of 15 metres possible.

Renewed stream rises have commenced at the Lockyer River at Lyons Bridge with a

peak between 16 and 16.5 metres expected early Tuesday morning.

Contact the SES on 132 500 for emergency assistance if required.

Next Issue:

The next warning will be issued at about 4am Tuesday.

Latest River Heights:

nil.

Warnings and River Height Bulletins are available at

<http://www.bom.gov.au/qld/flood/> . Flood Warnings are also available on

telephone 1300 659 219 at a low call cost of 27.5 cents, more from mobile,

public and satellite phones.

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Please direct all enquiries to the message author.

BOM Alert

From: Flood Information Centre [REDACTED]
To: Flood Information Centre [REDACTED]
Date: Tue, 11 Jan 2011 00:36:02 +1000

BOM: TO::BOM552

RIVER HEIGHT BULLETIN for Brisbane, Pine, Caboolture Rivers and tributaries

Issued at 12.30am on Tuesday, 11 January 2011

Bureau of Meteorology, Brisbane

| Station Name | Time | Height | Trend | Crossing |
|-----------------------------|---------|--------|-------|-------------------|
| Stanley/Upper Brisbane | | | | |
| Stanley R at Peachester # | 12.16am | 5.46 | F | |
| Stanley R at Peachester * | 11.20pm | 5.57 | F | |
| Stanley R at Woodford * | 11.40pm | 6.67 | F | 0.27 above bridge |
| Stanley R at Woodford # | 12.13am | 6.62 | F | 0.22 above bridge |
| Stanley R at Woodford # | 12.17am | 6.64 | F | 0.24 above bridge |
| Cooyar Ck at Cooyar Ck # | 12.18am | 6.04 | | |
| Cooyar Ck at Cooyar Ck * | 11.30pm | 5.08 | R | |
| Brisbane R at Linville # | 12.24am | 4.58 | R | |
| Brisbane R at Devon Hills # | 12.20am | 5.11 | R | |
| Emu Ck at Boat Mountain # | 12.22am | 5.38 | F | |
| Emu Ck at Boat Mountain * | 11.00pm | 5.47 | F | |

Brisbane R at Gregor Ck # 12.29am 6.94 F
 Brisbane R at Gregor Ck * 11.30pm 4.79 F
 Cressbrook Ck at Rosentreter's Br # 12.24am 5.10 R
 Cressbrook Ck at Rosentreter's Br * 11.10pm 5.00 R
 Lower Brisbane
 Sandy Creek at Sandy Creek Road # 12.23am 2.30 F 0.40 above crossing
 Laidley Ck at Mulgowie * 11.00pm 5.47 F 1.63 below bridge
 Laidley Ck at Laidley 10.00pm 8.70 FS 0.20 above bridge
 Laidley Ck at Showground Weir # 12.28am 7.94 F 3.79 above weir
 Laidley Ck at Showground Weir * 11.40pm 8.32 F 4.17 above weir
 Laidley Ck at Warrego Hwy * 11.00pm 6.05 R
 Lockyer Ck at Glenore Grove # 12.29am 14.54 F
 Lockyer Ck at Lyons Br # 12.26am 15.23 R
 Lockyer Ck at Rifle Range Rd * 11.40pm 15.12 R
 Lockyer Ck at O'Reilly's Weir # 12.25am 17.74 R 10.08 above weir
 Lockyer Ck at O'Reilly's Weir * 11.20pm 17.64 R 9.98 above weir
 Brisbane R at Savages Crossing # 12.29am 15.47 R 12.57 above bridge
 Brisbane R at Savages Crossing * 11.30pm 15.41 R 12.51 above bridge
 Brisbane R at Mt Crosby # 12.24am 15.44 R 3.09 above bridge
 Bremer R at Spreessers Br # 12.10am 5.72 F 0.92 above bridge
 Western Ck at Grandchester # 12.29am 3.78 R 0.82 below bridge
 Western Ck at Rosewood Wwtp # 12.29am 6.53 S 0.72 below approaches
 Bremer R at Rosewood# 10.51pm 5.76 S 0.56 above bridge

Bremer R at Rosewood # 11.32pm 5.80 R 0.60 above bridge
 Bremer R at Five Mile Br Walloon # 12.24am 6.08 R 1.58 above approaches
 Bremer R at Walloon Derm * 11.00pm 6.60 R
 Warrill Ck at Kalbar Weir Hw # 12.24am 76.79 F 2.02 above weir
 Warrill Ck at Kalbar Weir Hw * 11.30pm 76.94 F 2.17 above weir
 Warrill Ck at Kalbar Weir Tw * 11.35pm 6.49 F
 Warrill Ck at Harrisville# 11.36pm 5.05 R 0.45 below bridge
 Warrill Ck at Harrisville # 11.47pm 5.18 R 0.32 below bridge
 Warrill Ck at Churchbank Weir # 11.03pm 2.62 R 2.62 above weir
 Warrill Ck at Churchbank Weir * 11.30pm 2.59 R 2.59 above weir
 Warrill Ck at Greens Rd Amberley # 12.29am 5.86 F
 Warrill Ck at Amberley Dnr * 11.20pm 6.82 F
 Purga Ck at Peak Crossing # 12.07am 2.36 F 2.74 below bridge
 Purga Ck at Loamside * 11.40pm 7.63 F
 Bremer R at One Mile Br # 12.25am 13.05 F 4.15 below bridge
 Bremer R at Hancocks Br Brassall # 12.19am 10.43 R 3.37 below bridge
 Bremer R at Ipswich # 12.30am 7.85 R 17.03 below bridge
 Ipswich/Brisbane Creeks
 Bundamba Ck Harding St Raceview # 12.19am 23.98 F
 Bundamba Ck at Blackstone Br # 12.22am 18.49 F 2.31 below bridge
 Bundamba Ck at Bundamba School # 12.19am 14.53 F 1.77 below bridge
 Woogaroo Ck at Opossum # 12.26am 21.40 F
 Oxley Ck New Beith Rd Greenbank * 11.40pm 3.34 F

Oxley Ck Beatty Rd Archerfield # 12.27am 5.14 R

Oxley Ck Mouth # 12.26am 2.68 R

Enoggera Reservoir # 12.26am 76.17 S 1.80 above full supply

Enoggera Ck Bancroft Pk K Grove # 12.17am 3.04 S

Pine/Caboolture

South Pine R at Cash'S Crossing# 11.57pm 2.50 F

North Pine R at Youngs Crossing# 12.07am 5.17 S

Trend

S steady RS rising slowly FS falling slowly

P peak R rising F falling

EP estimated peak RF rising fast FF falling fast

Notes:

1. All heights are in metres.
2. Stations marked with [^] indicate heights above AHD.
3. Data from automatic stations [* or #] have not been checked & may have errors.
4. This product includes data made available to the Bureau by other agencies.

Separate approval may be required to use the data for other purposes. Refer to

Flood Gauge Information for station ownership.

This message has passed through an insecure network.

Please direct all enquiries to the message author.

BOM Alert

From: Flood Information Centre [REDACTED]
To: Flood Information Centre [REDACTED]
Date: Tue, 11 Jan 2011 00:45:22 +1000

BOM:

Australian Government Bureau of Meteorology

Queensland

Flood Summary

Issued at 12:38 AM on Tuesday the 11th of January 2011

The following Watches/Warnings are current:

FLOOD WARNING FOR COOPER CREEK

FLOOD WARNING FOR THE BURNETT RIVER AND TRIBUTARIES

FLOOD WARNING FOR THE CONDAMINE AND BALONNE RIVER SYSTEM

FLOOD WARNING FOR THE FITZROY RIVER BASIN

FLOOD WARNING FOR THE LOCKYER, BREMER, WARRILL AND BRISBANE RIVER
BELOW WIVENHOE

INCLUDING BRISBANE CITY

FLOOD WARNING FOR THE MARY RIVER

FLOOD WARNING FOR THE MOONIE RIVER

FLOOD WARNING FOR THE STANLEY RIVER AND BRISBANE RIVER ABOVE
WIVENHOE DAM

FLOOD WARNING FOR THE SUNSHINE COAST RIVERS

FLOOD WARNING FOR THE WEIR AND MACINTYRE RIVERS

FLASH FLOOD WARNING FOR LOCKYER CREEK

For more information on flood warnings see: www.bom.gov.au/qld/flood .

Additional information:

Other flooding includes:

Gulf Rivers: Moderate flooding is rising slowly on Magnificent Creek at

Kowanyama. Minor flood is occurring along the Norman River between Yappar River

and Normanton.

Diamantina River: Minor flooding is occurring between Diamantina Lakes and

Monkira.

Warrego River: Minor flooding easing between Cunnamulla and Rocky.

Logan Rivers: Minor to moderate flooding is being recorded in the Logan River

between the Rathdowney area downstream to Macleans Bridge.

Teviot Brook: Moderate flooding continues to ease at Boonah.

Kolan River: Minor flood levels rising slowly at Fred Haigh Dam.

Burdekin River: Minor flooding is easing in the Suttor River at St Anns.

Warnings and River Height Bulletins are available at

<http://www.bom.gov.au/qld/flood/> . Flood Warnings are also available on

telephone 1300 659 219 at a low call cost of 27.5 cents, more from mobile,

public and satellite phones.

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FIC Sitrep 2:00am - Shift 3

From: [REDACTED]
To: [REDACTED]
Date: Tue, 11 Jan 2011 02:24:39 +1000
Attachments: SITREP_2011_01_11_0030_Full_DataBoM5000.xls (209.41 kB);
 SITREP_2011_01_11_0030.ppt (176.13 kB)

+=====*
 Place: Flood_Information_Centre
 +=====*
 Further to our telephone conversations, latest sitrep.

Regards
 JamesC.

>>> Flood_Information_Centre 11/01/2011 2:03:59 am >>>
 Attached is the FIC SITREP based on:
 BoM forecasted water levels with forecast rainfall as at 6:00pm

With forecast rainfall as at 10/01/2011 6:00pm, Brisbane City Gauge water level is predicted to peak at 3.1 mAHD on Wednesday afternoon high tide around 2pm.

Please note the total flooded properties is now estimated at approximately 1200. The above count is for property flooding not house flooding.

James Charalambous
 FIC Controller - Shift 3

| PFN | CmbProfile | DESCRIPTION | ISSUE DATE | COMM | CELL ID | LOOD TYPE | PEAK DATE | RunID | DataGroup | profileNumb | Text32 | Text35 |
|-----|------------|--|------------|-----------------|------------------|-----------|-----------|--------|-----------|-------------|--------|--------|
| 1 | | Forecast for 12/01/2011 1 2:00:00 PM | 11-Jan-11 | Forecast BOM | ROCKLEA | Flooded | 163 | #Name? | #Name? | #Name? | 1 | 374.90 |
| 1 | | Forecast for 12/01/2011 1 2:00:00 PM | 11-Jan-11 | Forecast BOM | BRISBANE CITY | Flooded | 141 | #Name? | #Name? | #Name? | 1 | 277.30 |
| 1 | | Forecast for 12/01/2011 1 2:00:00 PM | 11-Jan-11 | Forecast BOM | MILTON | Flooded | 117 | #Name? | #Name? | #Name? | 1 | 257.40 |
| 1 | | Forecast for 12/01/2011 1 2:00:00 PM | 11-Jan-11 | Forecast BOM | ST LUCIA | Flooded | 93 | #Name? | #Name? | #Name? | 1 | 223.20 |
| 1 | | Forecast for 12/01/2011 1 2:00:00 PM | 11-Jan-11 | Forecast BOM | TOOWONG | Flooded | 78 | #Name? | #Name? | #Name? | 1 | 171.60 |
| 1 | | Forecast for 12/01/2011 1 2:00:00 PM | 11-Jan-11 | Forecast BOM | ALBION | Flooded | 64 | #Name? | #Name? | #Name? | 1 | 134.40 |
| 1 | | Forecast for 12/01/2011 1 2:00:00 PM | 11-Jan-11 | Forecast BOM | AUCHENFL OWER | Flooded | 62 | #Name? | #Name? | #Name? | 1 | 136.40 |
| 1 | | Forecast for 12/01/2011 1 2:00:00 PM | 11-Jan-11 | Forecast BOM | FAIRFIELD | Flooded | 61 | #Name? | #Name? | #Name? | 1 | 140.30 |
| 1 | | Forecast for 12/01/2011 1 2:00:00 PM | 11-Jan-11 | Forecast BOM | OXLEY | Flooded | 49 | #Name? | #Name? | #Name? | 1 | 126.18 |

| | | | | | | | | | | | |
|---|--|-----------|-----------------|-------------------|---------|----|--------|--------|--------|---|--------|
| 1 | Forecast for 12/01/2011 1 2:00:00 PM | 11-Jan-11 | Forecast BOM | NORMAN PARK | Flooded | 49 | #Name? | #Name? | #Name? | 1 | 117.60 |
| 1 | Forecast for 12/01/2011 1 2:00:00 PM | 11-Jan-11 | Forecast BOM | NEW FARM | Flooded | 36 | #Name? | #Name? | #Name? | 1 | 64.80 |
| 1 | Forecast for 12/01/2011 1 2:00:00 PM | 11-Jan-11 | Forecast BOM | BULIMBA | Flooded | 33 | #Name? | #Name? | #Name? | 1 | 79.20 |
| 1 | Forecast for 12/01/2011 1 2:00:00 PM | 11-Jan-11 | Forecast BOM | GRACEVILL E | Flooded | 27 | #Name? | #Name? | #Name? | 1 | 69.53 |
| 1 | Forecast for 12/01/2011 1 2:00:00 PM | 11-Jan-11 | Forecast BOM | EAST BRISBANE | Flooded | 25 | #Name? | #Name? | #Name? | 1 | 51.25 |
| 1 | Forecast for 12/01/2011 1 2:00:00 PM | 11-Jan-11 | Forecast BOM | YERONGA | Flooded | 24 | #Name? | #Name? | #Name? | 1 | 57.60 |
| 1 | Forecast for 12/01/2011 1 2:00:00 PM | 11-Jan-11 | Forecast BOM | WINDSOR | Flooded | 23 | #Name? | #Name? | #Name? | 1 | 50.60 |
| 1 | Forecast for 12/01/2011 1 2:00:00 PM | 11-Jan-11 | Forecast BOM | KANGAROO POINT | Flooded | 21 | #Name? | #Name? | #Name? | 1 | 43.05 |
| 1 | Forecast for 12/01/2011 1 2:00:00 PM | 11-Jan-11 | Forecast BOM | SHERWOOD | Flooded | 18 | #Name? | #Name? | #Name? | 1 | 46.35 |
| 1 | Forecast for 12/01/2011 1 2:00:00 PM | 11-Jan-11 | Forecast BOM | NEWSTEAD | Flooded | 17 | #Name? | #Name? | #Name? | 1 | 34.00 |

| | | | | | | | | | | | | |
|---|---|--|-----------|-----------------|-------------------|---------|----|--------|--------|--------|---|-------|
| 1 | 1 | Forecast for 12/01/2011 2:00:00 PM | 11-Jan-11 | Forecast BOM | INDOOROO PILLY | Flooded | 11 | #Name? | #Name? | #Name? | 1 | 27.13 |
| 1 | 1 | Forecast for 12/01/2011 2:00:00 PM | 11-Jan-11 | Forecast BOM | CHELMER | Flooded | 11 | #Name? | #Name? | #Name? | 1 | 27.13 |
| 1 | 1 | Forecast for 12/01/2011 2:00:00 PM | 11-Jan-11 | Forecast BOM | SOUTH BRISBANE | Flooded | 10 | #Name? | #Name? | #Name? | 1 | 21.00 |
| 1 | 1 | Forecast for 12/01/2011 2:00:00 PM | 11-Jan-11 | Forecast BOM | YEERONGPI LLY | Flooded | 10 | #Name? | #Name? | #Name? | 1 | 24.00 |
| 1 | 1 | Forecast for 12/01/2011 2:00:00 PM | 11-Jan-11 | Forecast BOM | PINKENBA | Flooded | 8 | #Name? | #Name? | #Name? | 1 | 17.60 |
| 1 | 1 | Forecast for 12/01/2011 2:00:00 PM | 11-Jan-11 | Forecast BOM | MOGGILL | Flooded | 7 | #Name? | #Name? | #Name? | 1 | 21.70 |
| 1 | 1 | Forecast for 12/01/2011 2:00:00 PM | 11-Jan-11 | Forecast BOM | BOWEN HILLS | Flooded | 7 | #Name? | #Name? | #Name? | 1 | 14.00 |
| 1 | 1 | Forecast for 12/01/2011 2:00:00 PM | 11-Jan-11 | Forecast BOM | WEST END | Flooded | 7 | #Name? | #Name? | #Name? | 1 | 14.70 |
| 1 | 1 | Forecast for 12/01/2011 2:00:00 PM | 11-Jan-11 | Forecast BOM | CORINDA | Flooded | 6 | #Name? | #Name? | #Name? | 1 | 15.45 |
| 1 | 1 | Forecast for 12/01/2011 2:00:00 PM | 11-Jan-11 | Forecast BOM | COORPARO O | Flooded | 6 | #Name? | #Name? | #Name? | 1 | 13.20 |

| | | | | | | | | | | | |
|---|--|-----------|-----------------|---------------------|---------|---|--------|--------|--------|---|-------|
| 1 | Forecast for 12/01/2011 1 2:00:00 PM | 11-Jan-11 | Forecast BOM | WACOL | Flooded | 4 | #Name? | #Name? | #Name? | 1 | 12.40 |
| 1 | Forecast for 12/01/2011 1 2:00:00 PM | 11-Jan-11 | Forecast BOM | FORTITUDE VALLEY | Flooded | 4 | #Name? | #Name? | #Name? | 1 | 8.00 |
| 1 | Forecast for 12/01/2011 1 2:00:00 PM | 11-Jan-11 | Forecast BOM | TENNYSON | Flooded | 3 | #Name? | #Name? | #Name? | 1 | 7.20 |
| 1 | Forecast for 12/01/2011 1 2:00:00 PM | 11-Jan-11 | Forecast BOM | HERSTON | Flooded | 3 | #Name? | #Name? | #Name? | 1 | 6.00 |
| 1 | Forecast for 12/01/2011 1 2:00:00 PM | 11-Jan-11 | Forecast BOM | HAWTHORN E | Flooded | 3 | #Name? | #Name? | #Name? | 1 | 7.20 |
| 1 | Forecast for 12/01/2011 1 2:00:00 PM | 11-Jan-11 | Forecast BOM | BALMORAL | Flooded | 2 | #Name? | #Name? | #Name? | 1 | 4.80 |
| 1 | Forecast for 12/01/2011 1 2:00:00 PM | 11-Jan-11 | Forecast BOM | FIG TREE POCKET | Flooded | 2 | #Name? | #Name? | #Name? | 1 | 6.03 |
| 1 | Forecast for 12/01/2011 1 2:00:00 PM | 11-Jan-11 | Forecast BOM | HAMILTON | Flooded | 2 | #Name? | #Name? | #Name? | 1 | 4.50 |
| 1 | Forecast for 12/01/2011 1 2:00:00 PM | 11-Jan-11 | Forecast BOM | LYTTON | Flooded | 2 | #Name? | #Name? | #Name? | 1 | 5.00 |
| 1 | Forecast for 12/01/2011 1 2:00:00 PM | 11-Jan-11 | Forecast BOM | MURARRIE | Flooded | 2 | #Name? | #Name? | #Name? | 1 | 5.20 |

| | | | | | | | | | | | | |
|---|---|--|-----------|-----------------|-----------------------------|---------|---|--------|--------|--------|---|------|
| 1 | 1 | Forecast for 12/01/2011 2:00:00 PM | 11-Jan-11 | Forecast BOM | KENMORE | Flooded | 2 | #Name? | #Name? | #Name? | 1 | 6.03 |
| 1 | 1 | Forecast for 12/01/2011 2:00:00 PM | 11-Jan-11 | Forecast BOM | GREENSLO PES | Flooded | 1 | #Name? | #Name? | #Name? | 1 | 2.10 |
| 1 | 1 | Forecast for 12/01/2011 2:00:00 PM | 11-Jan-11 | Forecast BOM | JINDALEE | Flooded | 1 | #Name? | #Name? | #Name? | 1 | 2.89 |
| 1 | 1 | Forecast for 12/01/2011 2:00:00 PM | 11-Jan-11 | Forecast BOM | KARANA DOWNS | Flooded | 1 | #Name? | #Name? | #Name? | 1 | 3.00 |
| 1 | 1 | Forecast for 12/01/2011 2:00:00 PM | 11-Jan-11 | Forecast BOM | MORNINGSI DE | Flooded | 1 | #Name? | #Name? | #Name? | 1 | 2.40 |
| 1 | 1 | Forecast for 12/01/2011 2:00:00 PM | 11-Jan-11 | Forecast BOM | PADDINGTO N | Flooded | 1 | #Name? | #Name? | #Name? | 1 | 2.20 |
| 1 | 1 | Forecast for 12/01/2011 2:00:00 PM | 11-Jan-11 | Forecast BOM | BROOKFIEL D | Flooded | 1 | #Name? | #Name? | #Name? | 1 | 3.01 |
| 1 | 1 | Forecast for 12/01/2011 2:00:00 PM | 11-Jan-11 | Forecast BOM | SEVENTEE N MILE ROCKS | Flooded | 1 | #Name? | #Name? | #Name? | 1 | 2.90 |
| 1 | 1 | Forecast for 12/01/2011 2:00:00 PM | 11-Jan-11 | Forecast BOM | TENERIFFE | Flooded | 1 | #Name? | #Name? | #Name? | 1 | 1.80 |
| 1 | 1 | Forecast for 12/01/2011 2:00:00 PM | 11-Jan-11 | Forecast BOM | WILLAWON G | Flooded | 1 | #Name? | #Name? | #Name? | 1 | 2.87 |

| | | | | | | | | | | | | |
|---|--|--|-----------|-----------------|-------------------|---------|---|--------|--------|--------|---|------|
| 1 | | Forecast for 12/01/2011 1 2:00:00 PM | 11-Jan-11 | Forecast BOM | WOOLLOON GABBA | Flooded | 1 | #Name? | #Name? | #Name? | 1 | 2.25 |
|---|--|--|-----------|-----------------|-------------------|---------|---|--------|--------|--------|---|------|

| PFN | CmbProfile | DESCR | ISSUE DATE | COMM | CELL ID | LOOD TYPE | PEAK DATE | RunID | DataGroup | profileNum | Text32 | Text35 |
|-----|------------|--|------------|-----------------|------------------|----------------------|-----------|--------|-----------|------------|--------|---------|
| 1 | | Forecast for 12/01/2011 1 2:00:00 PM | 11-Jan-11 | Forecast BOM | BRISBANE CITY | Partially Flooded | 1241 | #Name? | #Name? | #Name? | 1 | 2440.63 |
| 1 | | Forecast for 12/01/2011 1 2:00:00 PM | 11-Jan-11 | Forecast BOM | ST LUCIA | Partially Flooded | 584 | #Name? | #Name? | #Name? | 1 | 1401.60 |
| 1 | | Forecast for 12/01/2011 1 2:00:00 PM | 11-Jan-11 | Forecast BOM | NEW FARM | Partially Flooded | 445 | #Name? | #Name? | #Name? | 1 | 801.00 |
| 1 | | Forecast for 12/01/2011 1 2:00:00 PM | 11-Jan-11 | Forecast BOM | WEST END | Partially Flooded | 363 | #Name? | #Name? | #Name? | 1 | 762.30 |
| 1 | | Forecast for 12/01/2011 1 2:00:00 PM | 11-Jan-11 | Forecast BOM | ROCKLEA | Partially Flooded | 289 | #Name? | #Name? | #Name? | 1 | 664.70 |
| 1 | | Forecast for 12/01/2011 1 2:00:00 PM | 11-Jan-11 | Forecast BOM | TOOWONG | Partially Flooded | 285 | #Name? | #Name? | #Name? | 1 | 627.00 |
| 1 | | Forecast for 12/01/2011 1 2:00:00 PM | 11-Jan-11 | Forecast BOM | AUCHENFL OWER | Partially Flooded | 254 | #Name? | #Name? | #Name? | 1 | 558.80 |
| 1 | | Forecast for 12/01/2011 1 2:00:00 PM | 11-Jan-11 | Forecast BOM | BULIMBA | Partially Flooded | 245 | #Name? | #Name? | #Name? | 1 | 588.00 |
| 1 | | Forecast for 12/01/2011 1 2:00:00 PM | 11-Jan-11 | Forecast BOM | CHELMER | Partially Flooded | 243 | #Name? | #Name? | #Name? | 1 | 599.40 |

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|---|---|--|-----------|-----------------|--------------------|----------------------|-----|--------|--------|--------|---|--------|
| 1 | 1 | Forecast for 12/01/2011 2:00:00 PM | 11-Jan-11 | Forecast BOM | BOWEN HILLS | Partially Flooded | 240 | #Name? | #Name? | #Name? | 1 | 480.00 |
| 1 | 1 | Forecast for 12/01/2011 2:00:00 PM | 11-Jan-11 | Forecast BOM | YERONGA | Partially Flooded | 233 | #Name? | #Name? | #Name? | 1 | 559.20 |
| 1 | 1 | Forecast for 12/01/2011 2:00:00 PM | 11-Jan-11 | Forecast BOM | NEWSTEAD | Partially Flooded | 227 | #Name? | #Name? | #Name? | 1 | 454.00 |
| 1 | 1 | Forecast for 12/01/2011 2:00:00 PM | 11-Jan-11 | Forecast BOM | WINDSOR | Partially Flooded | 212 | #Name? | #Name? | #Name? | 1 | 466.40 |
| 1 | 1 | Forecast for 12/01/2011 2:00:00 PM | 11-Jan-11 | Forecast BOM | MOGGILL | Partially Flooded | 210 | #Name? | #Name? | #Name? | 1 | 651.00 |
| 1 | 1 | Forecast for 12/01/2011 2:00:00 PM | 11-Jan-11 | Forecast BOM | MILTON | Partially Flooded | 201 | #Name? | #Name? | #Name? | 1 | 442.20 |
| 1 | 1 | Forecast for 12/01/2011 2:00:00 PM | 11-Jan-11 | Forecast BOM | KARANA DOWNS | Partially Flooded | 200 | #Name? | #Name? | #Name? | 1 | 600.00 |
| 1 | 1 | Forecast for 12/01/2011 2:00:00 PM | 11-Jan-11 | Forecast BOM | FIG TREE POCKET | Partially Flooded | 190 | #Name? | #Name? | #Name? | 1 | 572.71 |
| 1 | 1 | Forecast for 12/01/2011 2:00:00 PM | 11-Jan-11 | Forecast BOM | OXLEY | Partially Flooded | 186 | #Name? | #Name? | #Name? | 1 | 478.95 |
| 1 | 1 | Forecast for 12/01/2011 2:00:00 PM | 11-Jan-11 | Forecast BOM | INDOOROO PILLY | Partially Flooded | 178 | #Name? | #Name? | #Name? | 1 | 439.07 |

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|---|---|--|-----------|-----------------|-------------------|----------------------|-----|--------|--------|--------|---|--------|
| 1 | 1 | Forecast for 12/01/2011 2:00:00 PM | 11-Jan-11 | Forecast BOM | FAIRFIELD | Partially Flooded | 175 | #Name? | #Name? | #Name? | 1 | 402.50 |
| 1 | 1 | Forecast for 12/01/2011 2:00:00 PM | 11-Jan-11 | Forecast BOM | NORMAN PARK | Partially Flooded | 174 | #Name? | #Name? | #Name? | 1 | 417.60 |
| 1 | 1 | Forecast for 12/01/2011 2:00:00 PM | 11-Jan-11 | Forecast BOM | SOUTH BRISBANE | Partially Flooded | 173 | #Name? | #Name? | #Name? | 1 | 363.30 |
| 1 | 1 | Forecast for 12/01/2011 2:00:00 PM | 11-Jan-11 | Forecast BOM | SHERWOOD | Partially Flooded | 168 | #Name? | #Name? | #Name? | 1 | 432.60 |
| 1 | 1 | Forecast for 12/01/2011 2:00:00 PM | 11-Jan-11 | Forecast BOM | HEMMANT | Partially Flooded | 160 | #Name? | #Name? | #Name? | 1 | 416.00 |
| 1 | 1 | Forecast for 12/01/2011 2:00:00 PM | 11-Jan-11 | Forecast BOM | PINKENBA | Partially Flooded | 160 | #Name? | #Name? | #Name? | 1 | 352.00 |
| 1 | 1 | Forecast for 12/01/2011 2:00:00 PM | 11-Jan-11 | Forecast BOM | EAST BRISBANE | Partially Flooded | 144 | #Name? | #Name? | #Name? | 1 | 295.20 |
| 1 | 1 | Forecast for 12/01/2011 2:00:00 PM | 11-Jan-11 | Forecast BOM | ALBION | Partially Flooded | 138 | #Name? | #Name? | #Name? | 1 | 289.80 |
| 1 | 1 | Forecast for 12/01/2011 2:00:00 PM | 11-Jan-11 | Forecast BOM | GRACEVILLE | Partially Flooded | 138 | #Name? | #Name? | #Name? | 1 | 355.35 |
| 1 | 1 | Forecast for 12/01/2011 2:00:00 PM | 11-Jan-11 | Forecast BOM | WESTLAKE | Partially Flooded | 120 | #Name? | #Name? | #Name? | 1 | 346.29 |

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|---|---|--|-----------|-----------------|-------------------|----------------------|-----|--------|--------|--------|---|--------|
| 1 | 1 | Forecast for 12/01/2011 2:00:00 PM | 11-Jan-11 | Forecast BOM | CORINDA | Partially Flooded | 104 | #Name? | #Name? | #Name? | 1 | 267.80 |
| 1 | 1 | Forecast for 12/01/2011 2:00:00 PM | 11-Jan-11 | Forecast BOM | COORPARO O | Partially Flooded | 103 | #Name? | #Name? | #Name? | 1 | 226.60 |
| 1 | 1 | Forecast for 12/01/2011 2:00:00 PM | 11-Jan-11 | Forecast BOM | KANGAROO POINT | Partially Flooded | 93 | #Name? | #Name? | #Name? | 1 | 190.65 |
| 1 | 1 | Forecast for 12/01/2011 2:00:00 PM | 11-Jan-11 | Forecast BOM | KENMORE | Partially Flooded | 93 | #Name? | #Name? | #Name? | 1 | 280.33 |
| 1 | 1 | Forecast for 12/01/2011 2:00:00 PM | 11-Jan-11 | Forecast BOM | JINDALEE | Partially Flooded | 90 | #Name? | #Name? | #Name? | 1 | 259.71 |
| 1 | 1 | Forecast for 12/01/2011 2:00:00 PM | 11-Jan-11 | Forecast BOM | HAWTHORN E | Partially Flooded | 86 | #Name? | #Name? | #Name? | 1 | 206.40 |
| 1 | 1 | Forecast for 12/01/2011 2:00:00 PM | 11-Jan-11 | Forecast BOM | CHUWAR | Partially Flooded | 85 | #Name? | #Name? | #Name? | 1 | 255.00 |
| 1 | 1 | Forecast for 12/01/2011 2:00:00 PM | 11-Jan-11 | Forecast BOM | BELLBOWRI E | Partially Flooded | 85 | #Name? | #Name? | #Name? | 1 | 263.50 |
| 1 | 1 | Forecast for 12/01/2011 2:00:00 PM | 11-Jan-11 | Forecast BOM | KHOLO | Partially Flooded | 84 | #Name? | #Name? | #Name? | 1 | 252.00 |
| 1 | 1 | Forecast for 12/01/2011 2:00:00 PM | 11-Jan-11 | Forecast BOM | ANSTEAD | Partially Flooded | 82 | #Name? | #Name? | #Name? | 1 | 254.20 |

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|---|---|--|-----------|-----------------|---------------------|----------------------|----|--------|--------|--------|---|--------|
| 1 | 1 | Forecast for 12/01/2011 2:00:00 PM | 11-Jan-11 | Forecast BOM | PORT OF BRISBANE | Partially Flooded | 81 | #Name? | #Name? | #Name? | 1 | 202.50 |
| 1 | 1 | Forecast for 12/01/2011 2:00:00 PM | 11-Jan-11 | Forecast BOM | TENNYSON | Partially Flooded | 71 | #Name? | #Name? | #Name? | 1 | 170.40 |
| 1 | 1 | Forecast for 12/01/2011 2:00:00 PM | 11-Jan-11 | Forecast BOM | WOOLLOON GABBA | Partially Flooded | 55 | #Name? | #Name? | #Name? | 1 | 123.75 |
| 1 | 1 | Forecast for 12/01/2011 2:00:00 PM | 11-Jan-11 | Forecast BOM | HAMILTON | Partially Flooded | 47 | #Name? | #Name? | #Name? | 1 | 105.75 |
| 1 | 1 | Forecast for 12/01/2011 2:00:00 PM | 11-Jan-11 | Forecast BOM | HIGHGATE HILL | Partially Flooded | 47 | #Name? | #Name? | #Name? | 1 | 98.70 |
| 1 | 1 | Forecast for 12/01/2011 2:00:00 PM | 11-Jan-11 | Forecast BOM | TINGALPA | Partially Flooded | 42 | #Name? | #Name? | #Name? | 1 | 113.40 |
| 1 | 1 | Forecast for 12/01/2011 2:00:00 PM | 11-Jan-11 | Forecast BOM | PINJARRA HILLS | Partially Flooded | 40 | #Name? | #Name? | #Name? | 1 | 120.57 |
| 1 | 1 | Forecast for 12/01/2011 2:00:00 PM | 11-Jan-11 | Forecast BOM | PADDINGTO N | Partially Flooded | 37 | #Name? | #Name? | #Name? | 1 | 81.40 |
| 1 | 1 | Forecast for 12/01/2011 2:00:00 PM | 11-Jan-11 | Forecast BOM | LYTTON | Partially Flooded | 33 | #Name? | #Name? | #Name? | 1 | 82.50 |
| 1 | 1 | Forecast for 12/01/2011 2:00:00 PM | 11-Jan-11 | Forecast BOM | MURARRIE | Partially Flooded | 33 | #Name? | #Name? | #Name? | 1 | 85.80 |

| | | | | | | | | | | | | |
|---|---|--|-----------|-----------------|------------------|----------------------|----|--------|--------|--------|---|-------|
| 1 | 1 | Forecast for 12/01/2011 2:00:00 PM | 11-Jan-11 | Forecast BOM | WACOL | Partially Flooded | 31 | #Name? | #Name? | #Name? | 1 | 96.10 |
| 1 | 1 | Forecast for 12/01/2011 2:00:00 PM | 11-Jan-11 | Forecast BOM | EAGLE FARM | Partially Flooded | 30 | #Name? | #Name? | #Name? | 1 | 66.00 |
| 1 | 1 | Forecast for 12/01/2011 2:00:00 PM | 11-Jan-11 | Forecast BOM | GREENSLO PES | Partially Flooded | 30 | #Name? | #Name? | #Name? | 1 | 63.00 |
| 1 | 1 | Forecast for 12/01/2011 2:00:00 PM | 11-Jan-11 | Forecast BOM | DUTTON PARK | Partially Flooded | 27 | #Name? | #Name? | #Name? | 1 | 60.75 |
| 1 | 1 | Forecast for 12/01/2011 2:00:00 PM | 11-Jan-11 | Forecast BOM | HERSTON | Partially Flooded | 26 | #Name? | #Name? | #Name? | 1 | 52.00 |
| 1 | 1 | Forecast for 12/01/2011 2:00:00 PM | 11-Jan-11 | Forecast BOM | RIVERHILLS | Partially Flooded | 26 | #Name? | #Name? | #Name? | 1 | 75.03 |
| 1 | 1 | Forecast for 12/01/2011 2:00:00 PM | 11-Jan-11 | Forecast BOM | YEERONGPI LLY | Partially Flooded | 25 | #Name? | #Name? | #Name? | 1 | 60.00 |
| 1 | 1 | Forecast for 12/01/2011 2:00:00 PM | 11-Jan-11 | Forecast BOM | WILLAWON G | Partially Flooded | 25 | #Name? | #Name? | #Name? | 1 | 71.67 |
| 1 | 1 | Forecast for 12/01/2011 2:00:00 PM | 11-Jan-11 | Forecast BOM | MORNINGSI DE | Partially Flooded | 24 | #Name? | #Name? | #Name? | 1 | 57.60 |
| 1 | 1 | Forecast for 12/01/2011 2:00:00 PM | 11-Jan-11 | Forecast BOM | BROOKFIEL D | Partially Flooded | 23 | #Name? | #Name? | #Name? | 1 | 69.33 |

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|---|---|--|-----------|-----------------|-----------------------------|----------------------|----|--------|--------|--------|---|-------|
| 1 | 1 | Forecast for 12/01/2011 2:00:00 PM | 11-Jan-11 | Forecast BOM | SUMNER | Partially Flooded | 23 | #Name? | #Name? | #Name? | 1 | 66.37 |
| 1 | 1 | Forecast for 12/01/2011 2:00:00 PM | 11-Jan-11 | Forecast BOM | COOPERS PLAINS | Partially Flooded | 22 | #Name? | #Name? | #Name? | 1 | 57.20 |
| 1 | 1 | Forecast for 12/01/2011 2:00:00 PM | 11-Jan-11 | Forecast BOM | MOUNT CROSBY | Partially Flooded | 20 | #Name? | #Name? | #Name? | 1 | 60.00 |
| 1 | 1 | Forecast for 12/01/2011 2:00:00 PM | 11-Jan-11 | Forecast BOM | TARINGA | Partially Flooded | 20 | #Name? | #Name? | #Name? | 1 | 49.33 |
| 1 | 1 | Forecast for 12/01/2011 2:00:00 PM | 11-Jan-11 | Forecast BOM | WYNNUM WEST | Partially Flooded | 19 | #Name? | #Name? | #Name? | 1 | 47.50 |
| 1 | 1 | Forecast for 12/01/2011 2:00:00 PM | 11-Jan-11 | Forecast BOM | SINNAMON PARK | Partially Flooded | 14 | #Name? | #Name? | #Name? | 1 | 40.60 |
| 1 | 1 | Forecast for 12/01/2011 2:00:00 PM | 11-Jan-11 | Forecast BOM | SEVENTEE N MILE ROCKS | Partially Flooded | 13 | #Name? | #Name? | #Name? | 1 | 37.70 |
| 1 | 1 | Forecast for 12/01/2011 2:00:00 PM | 11-Jan-11 | Forecast BOM | ARCHERFIE LD | Partially Flooded | 13 | #Name? | #Name? | #Name? | 1 | 33.80 |
| 1 | 1 | Forecast for 12/01/2011 2:00:00 PM | 11-Jan-11 | Forecast BOM | DURACK | Partially Flooded | 11 | #Name? | #Name? | #Name? | 1 | 31.17 |
| 1 | 1 | Forecast for 12/01/2011 2:00:00 PM | 11-Jan-11 | Forecast BOM | FORTITUDE VALLEY | Partially Flooded | 11 | #Name? | #Name? | #Name? | 1 | 22.00 |

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|---|---|--|-----------|-----------------|-----------------|----------------------|----|--------|--------|--------|---|-------|
| 1 | 1 | Forecast for 12/01/2011 2:00:00 PM | 11-Jan-11 | Forecast BOM | CARINA | Partially Flooded | 11 | #Name? | #Name? | #Name? | 1 | 28.60 |
| 1 | 1 | Forecast for 12/01/2011 2:00:00 PM | 11-Jan-11 | Forecast BOM | TENERIFFE | Partially Flooded | 10 | #Name? | #Name? | #Name? | 1 | 18.00 |
| 1 | 1 | Forecast for 12/01/2011 2:00:00 PM | 11-Jan-11 | Forecast BOM | BALMORAL | Partially Flooded | 10 | #Name? | #Name? | #Name? | 1 | 24.00 |
| 1 | 1 | Forecast for 12/01/2011 2:00:00 PM | 11-Jan-11 | Forecast BOM | KELVIN GROVE | Partially Flooded | 9 | #Name? | #Name? | #Name? | 1 | 20.70 |
| 1 | 1 | Forecast for 12/01/2011 2:00:00 PM | 11-Jan-11 | Forecast BOM | ACACIA RIDGE | Partially Flooded | 9 | #Name? | #Name? | #Name? | 1 | 25.80 |
| 1 | 1 | Forecast for 12/01/2011 2:00:00 PM | 11-Jan-11 | Forecast BOM | MOOROOK A | Partially Flooded | 8 | #Name? | #Name? | #Name? | 1 | 19.20 |
| 1 | 1 | Forecast for 12/01/2011 2:00:00 PM | 11-Jan-11 | Forecast BOM | CARINDALE | Partially Flooded | 8 | #Name? | #Name? | #Name? | 1 | 20.80 |
| 1 | 1 | Forecast for 12/01/2011 2:00:00 PM | 11-Jan-11 | Forecast BOM | WILSTON | Partially Flooded | 7 | #Name? | #Name? | #Name? | 1 | 16.80 |
| 1 | 1 | Forecast for 12/01/2011 2:00:00 PM | 11-Jan-11 | Forecast BOM | CANNON HILL | Partially Flooded | 5 | #Name? | #Name? | #Name? | 1 | 12.00 |
| 1 | 1 | Forecast for 12/01/2011 2:00:00 PM | 11-Jan-11 | Forecast BOM | MIDDLE PARK | Partially Flooded | 5 | #Name? | #Name? | #Name? | 1 | 14.43 |

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|---|--|--|-----------|-----------------|------------------------|----------------------|---|--------|--------|--------|---|-------|
| 1 | | Forecast for 12/01/2011 1 2:00:00 PM | 11-Jan-11 | Forecast BOM | MOUNT OMMANEY | Partially Flooded | 5 | #Name? | #Name? | #Name? | 1 | 14.43 |
| 1 | | Forecast for 12/01/2011 1 2:00:00 PM | 11-Jan-11 | Forecast BOM | NEWMARKE T | Partially Flooded | 4 | #Name? | #Name? | #Name? | 1 | 9.60 |
| 1 | | Forecast for 12/01/2011 1 2:00:00 PM | 11-Jan-11 | Forecast BOM | DARRA | Partially Flooded | 3 | #Name? | #Name? | #Name? | 1 | 9.30 |
| 1 | | Forecast for 12/01/2011 1 2:00:00 PM | 11-Jan-11 | Forecast BOM | PULLENVAL E | Partially Flooded | 3 | #Name? | #Name? | #Name? | 1 | 9.04 |
| 1 | | Forecast for 12/01/2011 1 2:00:00 PM | 11-Jan-11 | Forecast BOM | LAKE MANCHEST ER | Partially Flooded | 1 | #Name? | #Name? | #Name? | 1 | 3.00 |
| 1 | | Forecast for 12/01/2011 1 2:00:00 PM | 11-Jan-11 | Forecast BOM | CHAPEL HILL | Partially Flooded | 1 | #Name? | #Name? | #Name? | 1 | 3.01 |
| 1 | | Forecast for 12/01/2011 1 2:00:00 PM | 11-Jan-11 | Forecast BOM | ASHGROVE | Partially Flooded | 1 | #Name? | #Name? | #Name? | 1 | 2.60 |
| 1 | | Forecast for 12/01/2011 1 2:00:00 PM | 11-Jan-11 | Forecast BOM | JAMBOREE HEIGHTS | Partially Flooded | 1 | #Name? | #Name? | #Name? | 1 | 2.89 |
| 1 | | Forecast for 12/01/2011 1 2:00:00 PM | 11-Jan-11 | Forecast BOM | RICHLANDS | Partially Flooded | 1 | #Name? | #Name? | #Name? | 1 | 2.83 |

| PFN | CmbProfile | DESCR | ISSUE_DATE | COMM | CELL_ID | LOOD_TYF | Type | RunID | DataGroup | profileNumb | Text32 | Text35 | Text36 | ID |
|-----|------------|--|------------|-----------------|-------------------|----------------------|-------------------|--------|-----------|-------------|-----------------------------|--------|--|-----|
| 1 | | Forecast for 12/01/2011 1 2:00:00 PM | 11-Jan-11 | Forecast BOM | SOUTH BRISBANE | Partially Flooded | EDUCATION | #Name? | #Name? | #Name? | 1 SCHOOL | | DEPARTME NT OF ADMINISTR ATIVE SERVICES QLD | 45 |
| 1 | | Forecast for 12/01/2011 1 2:00:00 PM | 11-Jan-11 | Forecast BOM | HAMILTON | Partially Flooded | ACCOMMO DATION | #Name? | #Name? | #Name? | 1 HOTEL/MOT EL | | | 10 |
| 1 | | Forecast for 12/01/2011 1 2:00:00 PM | 11-Jan-11 | Forecast BOM | WINDSOR | Partially Flooded | ACCOMMO DATION | #Name? | #Name? | #Name? | 1 GUEST HOUSE/HOS TEL | | | 8 |
| 1 | | Forecast for 12/01/2011 1 2:00:00 PM | 11-Jan-11 | Forecast BOM | BELLBOWRI E | Partially Flooded | EDUCATION | #Name? | #Name? | #Name? | 1 SCHOOL | | BELLBOWRI E KINDERGAR TEN & PRE- SCHOOL | 208 |
| 1 | | Forecast for 12/01/2011 1 2:00:00 PM | 11-Jan-11 | Forecast BOM | TARINGA | Partially Flooded | FUEL | #Name? | #Name? | #Name? | 1 SERVICE STATION | | SHELL COMPANY OF AUSTRALIA LTD (J219) | 61 |
| 1 | | Forecast for 12/01/2011 1 2:00:00 PM | 11-Jan-11 | Forecast BOM | BRISBANE | Partially Flooded | EDUCATION | #Name? | #Name? | #Name? | 1 SCHOOL | | QUEENSLA ND UNIVERSITY OF TECHNOLO GY | 46 |
| 1 | | Forecast for 12/01/2011 1 2:00:00 PM | 11-Jan-11 | Forecast BOM | BRISBANE | Partially Flooded | COMMUNIC ATION | #Name? | #Name? | #Name? | 1 COMMS TOWER | | | 47 |

| | | | | | | | | | | | | |
|---|--|-----------|-----------------|-------------------|----------------------|-------------------|--------|--------|--------|-----------------------------|--|-----|
| 1 | Forecast for 12/01/2011 1 2:00:00 PM | 11-Jan-11 | Forecast BOM | SOUTH BRISBANE | Partially Flooded | EDUCATION | #Name? | #Name? | #Name? | 1 SCHOOL | CENTRAL QUEENSLA ND UNIVERSITY C/- QUEENSLA ND | 31 |
| 1 | Forecast for 12/01/2011 1 2:00:00 PM | 11-Jan-11 | Forecast BOM | KARANA DOWNS | Partially Flooded | SEWER | #Name? | #Name? | #Name? | 1 PUMP STATION | | 178 |
| 1 | Forecast for 12/01/2011 1 2:00:00 PM | 11-Jan-11 | Forecast BOM | NEW FARM | Partially Flooded | ACCOMMO DATION | #Name? | #Name? | #Name? | 1 GUEST HOUSE/HOS TEL | | 24 |
| 1 | Forecast for 12/01/2011 1 2:00:00 PM | 11-Jan-11 | Forecast BOM | TARINGA | Partially Flooded | NON- MEDICAL | #Name? | #Name? | #Name? | 1 WELFARE INSTITUTE | FOREST PLACE GROUP LIMITED | 62 |
| 1 | Forecast for 12/01/2011 1 2:00:00 PM | 11-Jan-11 | Forecast BOM | VALLEY | Partially Flooded | COMMUNIC ATION | #Name? | #Name? | #Name? | 1 COMMS TOWER | | 22 |
| 1 | Forecast for 12/01/2011 1 2:00:00 PM | 11-Jan-11 | Forecast BOM | ROCKLEA | Partially Flooded | ENERGY | #Name? | #Name? | #Name? | 1 ENERGEX | | 196 |
| 1 | Forecast for 12/01/2011 1 2:00:00 PM | 11-Jan-11 | Forecast BOM | PINKENBA | Partially Flooded | EDUCATION | #Name? | #Name? | #Name? | 1 SCHOOL | EDUCATION QUEENSLA ND PINKENBA STATE SCHOOL | 3 |
| 1 | Forecast for 12/01/2011 1 2:00:00 PM | 11-Jan-11 | Forecast BOM | ST LUCIA | Partially Flooded | ACCOMMO DATION | #Name? | #Name? | #Name? | 1 GUEST HOUSE/HOS TEL | INTERNATI ONAL HOUSE | 70 |
| 1 | Forecast for 12/01/2011 1 2:00:00 PM | 11-Jan-11 | Forecast BOM | NEWSTEAD | Flooded | NON- MEDICAL | #Name? | #Name? | #Name? | 1 WELFARE INSTITUTE | THE SMITH FAMILY | 9 |

| | | | | | | | | | | | |
|---|--|-----------|-----------------|-------------------|----------------------|-------------------|--------|--------|--------|---|-----|
| 1 | Forecast for 12/01/2011 1 2:00:00 PM | 11-Jan-11 | Forecast BOM | ST LUCIA | Partially Flooded | COMMUNIC ATION | #Name? | #Name? | #Name? | COMMS TOWER | 103 |
| 1 | Forecast for 12/01/2011 1 2:00:00 PM | 11-Jan-11 | Forecast BOM | SOUTH BRISBANE | Partially Flooded | ACCOMMO DATION | #Name? | #Name? | #Name? | HOTEL/MOT EL | 44 |
| 1 | Forecast for 12/01/2011 1 2:00:00 PM | 11-Jan-11 | Forecast BOM | NEW FARM | Partially Flooded | ACCOMMO DATION | #Name? | #Name? | #Name? | GUEST HOUSE/HOS TEL | 52 |
| 1 | Forecast for 12/01/2011 1 2:00:00 PM | 11-Jan-11 | Forecast BOM | EAST BRISBANE | Partially Flooded | COMMUNIC ATION | #Name? | #Name? | #Name? | COMMS TOWER | 83 |
| 1 | Forecast for 12/01/2011 1 2:00:00 PM | 11-Jan-11 | Forecast BOM | WOOLLOON GABBA | Partially Flooded | EDUCATION | #Name? | #Name? | #Name? | EDUCATION QUEENSLA ND BURANDA STATE SCHOOL | 79 |
| 1 | Forecast for 12/01/2011 1 2:00:00 PM | 11-Jan-11 | Forecast BOM | EAST BRISBANE | Partially Flooded | COMMUNIC ATION | #Name? | #Name? | #Name? | COMMS TOWER | 84 |
| 1 | Forecast for 12/01/2011 1 2:00:00 PM | 11-Jan-11 | Forecast BOM | WILLAWON G | Partially Flooded | COMMUNIC ATION | #Name? | #Name? | #Name? | COMMS TOWER | 224 |
| 1 | Forecast for 12/01/2011 1 2:00:00 PM | 11-Jan-11 | Forecast BOM | SHERWOOD | Partially Flooded | COMMUNIC ATION | #Name? | #Name? | #Name? | COMMS TOWER | 155 |
| 1 | Forecast for 12/01/2011 1 2:00:00 PM | 11-Jan-11 | Forecast BOM | KARANA DOWNS | Flooded | SEWER | #Name? | #Name? | #Name? | PUMP STATION | 177 |
| 1 | Forecast for 12/01/2011 1 2:00:00 PM | 11-Jan-11 | Forecast BOM | WEST END | Partially Flooded | COMMUNIC ATION | #Name? | #Name? | #Name? | COMMS TOWER | 35 |

| | | | | | | | | | | | | |
|---|--|-----------|-----------------|------------|----------------------|-------------------|--------|--------|--------|---------------------------|------------------------------------|-----|
| 1 | Forecast for 12/01/2011 1 2:00:00 PM | 11-Jan-11 | Forecast BOM | PADDINGTON | Partially Flooded | FUEL | #Name? | #Name? | #Name? | SERVICE STATION | | 20 |
| 1 | Forecast for 12/01/2011 1 2:00:00 PM | 11-Jan-11 | Forecast BOM | ALBION | Partially Flooded | COMMUNIC ATION | #Name? | #Name? | #Name? | COMMS TOWER | | 11 |
| 1 | Forecast for 12/01/2011 1 2:00:00 PM | 11-Jan-11 | Forecast BOM | ALBION | Partially Flooded | ACCOMMO DATION | #Name? | #Name? | #Name? | HOTEL/MOT EL | | 12 |
| 1 | Forecast for 12/01/2011 1 2:00:00 PM | 11-Jan-11 | Forecast BOM | ST LUCIA | Partially Flooded | ACCOMMO DATION | #Name? | #Name? | #Name? | GUEST HOUSE/HOS TEL | | 75 |
| 1 | Forecast for 12/01/2011 1 2:00:00 PM | 11-Jan-11 | Forecast BOM | TOOWONG | Partially Flooded | COMMUNIC ATION | #Name? | #Name? | #Name? | COMMS TOWER | | 28 |
| 1 | Forecast for 12/01/2011 1 2:00:00 PM | 11-Jan-11 | Forecast BOM | SHERWOOD | Flooded | SEWER | #Name? | #Name? | #Name? | PUMP STATION | | 150 |
| 1 | Forecast for 12/01/2011 1 2:00:00 PM | 11-Jan-11 | Forecast BOM | OXLEY | Partially Flooded | FUEL | #Name? | #Name? | #Name? | SERVICE STATION | | 186 |
| 1 | Forecast for 12/01/2011 1 2:00:00 PM | 11-Jan-11 | Forecast BOM | ST LUCIA | Partially Flooded | EDUCATION | #Name? | #Name? | #Name? | SCHOOL | UNIVERSITY OF QUEENSLA ND | 68 |
| 1 | Forecast for 12/01/2011 1 2:00:00 PM | 11-Jan-11 | Forecast BOM | CHELMER | Partially Flooded | EDUCATION | #Name? | #Name? | #Name? | SCHOOL | EDUCATION QUEENSLA ND | 93 |
| 1 | Forecast for 12/01/2011 1 2:00:00 PM | 11-Jan-11 | Forecast BOM | WEST END | Partially Flooded | COMMUNIC ATION | #Name? | #Name? | #Name? | COMMS TOWER | | 66 |
| 1 | Forecast for 12/01/2011 1 2:00:00 PM | 11-Jan-11 | Forecast BOM | WEST END | Partially Flooded | COMMUNIC ATION | #Name? | #Name? | #Name? | COMMS TOWER | | 67 |

| | | | | | | | | | | | | |
|---|--|-----------|-----------------|----------------|----------------------|-------------------|--------|--------|--------|-----------------------------|--|-----|
| 1 | Forecast for 12/01/2011 1 2:00:00 PM | 11-Jan-11 | Forecast BOM | OXLEY | Partially Flooded | EDUCATION | #Name? | #Name? | #Name? | 1 SCHOOL | EDUCATION QUEENSLA ND OXLEY STATE SCHOOL | 213 |
| 1 | Forecast for 12/01/2011 1 2:00:00 PM | 11-Jan-11 | Forecast BOM | JINDALEE | Partially Flooded | FUEL | #Name? | #Name? | #Name? | 1 SERVICE STATION | | 142 |
| 1 | Forecast for 12/01/2011 1 2:00:00 PM | 11-Jan-11 | Forecast BOM | NORMAN PARK | Partially Flooded | SEWER | #Name? | #Name? | #Name? | 1 PUMP STATION | | 56 |
| 1 | Forecast for 12/01/2011 1 2:00:00 PM | 11-Jan-11 | Forecast BOM | ST LUCIA | Partially Flooded | ACCOMMO DATION | #Name? | #Name? | #Name? | 1 GUEST HOUSE/HOS TEL | INTERNATI ONAL HOUSE | 74 |
| 1 | Forecast for 12/01/2011 1 2:00:00 PM | 11-Jan-11 | Forecast BOM | ST LUCIA | Partially Flooded | EDUCATION | #Name? | #Name? | #Name? | 1 SCHOOL | UNIVERSITY OF QUEENSLA ND | 76 |
| 1 | Forecast for 12/01/2011 1 2:00:00 PM | 11-Jan-11 | Forecast BOM | MILTON | Partially Flooded | FUEL | #Name? | #Name? | #Name? | 1 SERVICE STATION | | 37 |
| 1 | Forecast for 12/01/2011 1 2:00:00 PM | 11-Jan-11 | Forecast BOM | CARINA | Partially Flooded | EDUCATION | #Name? | #Name? | #Name? | 1 SCHOOL | EDUCATION QUEENSLA ND | 85 |
| 1 | Forecast for 12/01/2011 1 2:00:00 PM | 11-Jan-11 | Forecast BOM | WACOL | Partially Flooded | SEWER | #Name? | #Name? | #Name? | 1 PUMP STATION | | 222 |
| 1 | Forecast for 12/01/2011 1 2:00:00 PM | 11-Jan-11 | Forecast BOM | MILTON | Partially Flooded | COMMUNIC ATION | #Name? | #Name? | #Name? | 1 COMMS TOWER | | 34 |
| 1 | Forecast for 12/01/2011 1 2:00:00 PM | 11-Jan-11 | Forecast BOM | BRISBANE | Partially Flooded | COMMUNIC ATION | #Name? | #Name? | #Name? | 1 COMMS TOWER | | 41 |

| | | | | | | | | | | | |
|---|--|-----------|-----------------|------------------|----------------------|-------------------|--------|--------|--------|------------------|---|
| 1 | Forecast for 12/01/2011 1 2:00:00 PM | 11-Jan-11 | Forecast BOM | NEW FARM | Partially Flooded | COMMUNIC ATION | #Name? | #Name? | #Name? | 1 COMMS TOWER | 26 |
| 1 | Forecast for 12/01/2011 1 2:00:00 PM | 11-Jan-11 | Forecast BOM | LYTTON | Partially Flooded | FUEL | #Name? | #Name? | #Name? | 1 BULK FUEL | 4 |
| 1 | Forecast for 12/01/2011 1 2:00:00 PM | 11-Jan-11 | Forecast BOM | BRISBANE | Partially Flooded | COMMUNIC ATION | #Name? | #Name? | #Name? | 1 COMMS TOWER | 50 |
| 1 | Forecast for 12/01/2011 1 2:00:00 PM | 11-Jan-11 | Forecast BOM | BRISBANE | Partially Flooded | COMMUNIC ATION | #Name? | #Name? | #Name? | 1 COMMS TOWER | 49 |
| 1 | Forecast for 12/01/2011 1 2:00:00 PM | 11-Jan-11 | Forecast BOM | BRISBANE | Partially Flooded | COMMUNIC ATION | #Name? | #Name? | #Name? | 1 COMMS TOWER | 48 |
| 1 | Forecast for 12/01/2011 1 2:00:00 PM | 11-Jan-11 | Forecast BOM | ST LUCIA | Partially Flooded | EDUCATION | #Name? | #Name? | #Name? | 1 SCHOOL | UNIVERSITY OF QUEENSLA ND 73 |
| 1 | Forecast for 12/01/2011 1 2:00:00 PM | 11-Jan-11 | Forecast BOM | FAIRFIELD | Partially Flooded | COMMUNIC ATION | #Name? | #Name? | #Name? | 1 COMMS TOWER | 112 |
| 1 | Forecast for 12/01/2011 1 2:00:00 PM | 11-Jan-11 | Forecast BOM | VALLEY | Partially Flooded | COMMUNIC ATION | #Name? | #Name? | #Name? | 1 COMMS TOWER | 23 |
| 1 | Forecast for 12/01/2011 1 2:00:00 PM | 11-Jan-11 | Forecast BOM | EAST BRISBANE | Partially Flooded | EDUCATION | #Name? | #Name? | #Name? | 1 SCHOOL | THE CORPORATI ON OF THE SYNOD OF THE DIOCESE 57 |
| 1 | Forecast for 12/01/2011 1 2:00:00 PM | 11-Jan-11 | Forecast BOM | LYTTON | Partially Flooded | FUEL | #Name? | #Name? | #Name? | 1 BULK FUEL | CALTEx REFINERIES (QLD) LTD 5 |

| | | | | | | | | | | | | |
|---|--|-----------|-----------------|-------------------|----------------------|-------------------|--------|--------|--------|----------------------|---|-----|
| 1 | Forecast for 12/01/2011 1 2:00:00 PM | 11-Jan-11 | Forecast BOM | BRISBANE | Partially Flooded | ACCOMMO DATION | #Name? | #Name? | #Name? | HOTEL/MOT 1 EL | | 40 |
| 1 | Forecast for 12/01/2011 1 2:00:00 PM | 11-Jan-11 | Forecast BOM | ANSTEAD | Partially Flooded | WATER SUPPLY | #Name? | #Name? | #Name? | PRESSURE 1 GAUGE | | 138 |
| 1 | Forecast for 12/01/2011 1 2:00:00 PM | 11-Jan-11 | Forecast BOM | ROCKLEA | Partially Flooded | WATER SUPPLY | #Name? | #Name? | #Name? | SAMPLING 1 POINT | | 171 |
| 1 | Forecast for 12/01/2011 1 2:00:00 PM | 11-Jan-11 | Forecast BOM | ROCKLEA | Partially Flooded | WATER SUPPLY | #Name? | #Name? | #Name? | PRESSURE 1 GAUGE | | 172 |
| 1 | Forecast for 12/01/2011 1 2:00:00 PM | 11-Jan-11 | Forecast BOM | PADDINGTO N | Partially Flooded | EDUCATION | #Name? | #Name? | #Name? | 1 SCHOOL | EDUCATION QUEENSLA ND MILTON STATE SCHOOL | 19 |
| 1 | Forecast for 12/01/2011 1 2:00:00 PM | 11-Jan-11 | Forecast BOM | KENMORE | Partially Flooded | EDUCATION | #Name? | #Name? | #Name? | 1 SCHOOL | EDUCATION QUEENSLA ND | 87 |
| 1 | Forecast for 12/01/2011 1 2:00:00 PM | 11-Jan-11 | Forecast BOM | ROCKLEA | Flooded | FUEL | #Name? | #Name? | #Name? | SERVICE 1 STATION | | 195 |
| 1 | Forecast for 12/01/2011 1 2:00:00 PM | 11-Jan-11 | Forecast BOM | ROCKLEA | Partially Flooded | COMMUNIC ATION | #Name? | #Name? | #Name? | COMMS 1 TOWER | | 167 |
| 1 | Forecast for 12/01/2011 1 2:00:00 PM | 11-Jan-11 | Forecast BOM | INDOOROO PILLY | Partially Flooded | SEWER | #Name? | #Name? | #Name? | PUMP 1 STATION | | 99 |
| 1 | Forecast for 12/01/2011 1 2:00:00 PM | 11-Jan-11 | Forecast BOM | HEMMANT | Partially Flooded | ACCOMMO DATION | #Name? | #Name? | #Name? | CARAVAN 1 PARK | | 16 |

| | | | | | | | | | | | |
|---|--|-----------|-----------------|--------------------|----------------------|-------------------|--------|--------|--------|-----------------------|--------------------------------|
| 1 | Forecast for 12/01/2011 1 2:00:00 PM | 11-Jan-11 | Forecast BOM | HEMMANT | Partially Flooded | SEWER | #Name? | #Name? | #Name? | PUMP 1 STATION | 17 |
| 1 | Forecast for 12/01/2011 1 2:00:00 PM | 11-Jan-11 | Forecast BOM | TARINGA | Flooded | SEWER | #Name? | #Name? | #Name? | PUMP 1 STATION | 64 |
| 1 | Forecast for 12/01/2011 1 2:00:00 PM | 11-Jan-11 | Forecast BOM | OXLEY | Partially Flooded | FUEL | #Name? | #Name? | #Name? | SERVICE 1 STATION | 214 |
| 1 | Forecast for 12/01/2011 1 2:00:00 PM | 11-Jan-11 | Forecast BOM | DURACK | Partially Flooded | SEWER | #Name? | #Name? | #Name? | TREATMEN 1 T PLANT | 225 |
| 1 | Forecast for 12/01/2011 1 2:00:00 PM | 11-Jan-11 | Forecast BOM | SHERWOOD | Partially Flooded | EDUCATION | #Name? | #Name? | #Name? | 1 SCHOOL | EDUCATION QUEENSLAND 149 |
| 1 | Forecast for 12/01/2011 1 2:00:00 PM | 11-Jan-11 | Forecast BOM | ROCKLEA | Partially Flooded | COMMUNIC ATION | #Name? | #Name? | #Name? | 1 COMMS TOWER | 190 |
| 1 | Forecast for 12/01/2011 1 2:00:00 PM | 11-Jan-11 | Forecast BOM | ROCKLEA | Partially Flooded | COMMUNIC ATION | #Name? | #Name? | #Name? | 1 COMMS TOWER | 203 |
| 1 | Forecast for 12/01/2011 1 2:00:00 PM | 11-Jan-11 | Forecast BOM | PINKENBA | Partially Flooded | FUEL | #Name? | #Name? | #Name? | 1 BULK FUEL | 2 |
| 1 | Forecast for 12/01/2011 1 2:00:00 PM | 11-Jan-11 | Forecast BOM | FIG TREE POCKET | Flooded | SEWER | #Name? | #Name? | #Name? | PUMP 1 STATION | 120 |
| 1 | Forecast for 12/01/2011 1 2:00:00 PM | 11-Jan-11 | Forecast BOM | INDOOROO PILLY | Partially Flooded | COMMUNIC ATION | #Name? | #Name? | #Name? | 1 COMMS TOWER | 100 |
| 1 | Forecast for 12/01/2011 1 2:00:00 PM | 11-Jan-11 | Forecast BOM | ST LUCIA | Partially Flooded | SEWER | #Name? | #Name? | #Name? | PUMP 1 STATION | 60 |

| | | | | | | | | | | | | | |
|---|--|-----------|-----------------|-------------------|----------------------|-------------------|--------|--------|--------|---|----------------------|--|-----|
| 1 | Forecast for 12/01/2011 1 2:00:00 PM | 11-Jan-11 | Forecast BOM | CORINDA | Partially Flooded | EDUCATION | #Name? | #Name? | #Name? | 1 | SCHOOL | EDUCATION QUEENSLA ND | 187 |
| 1 | Forecast for 12/01/2011 1 2:00:00 PM | 11-Jan-11 | Forecast BOM | YEERONGPI LLY | Partially Flooded | COMMUNIC ATION | #Name? | #Name? | #Name? | 1 | COMMS TOWER | | 174 |
| 1 | Forecast for 12/01/2011 1 2:00:00 PM | 11-Jan-11 | Forecast BOM | YEERONGPI LLY | Partially Flooded | COMMUNIC ATION | #Name? | #Name? | #Name? | 1 | COMMS TOWER | | 173 |
| 1 | Forecast for 12/01/2011 1 2:00:00 PM | 11-Jan-11 | Forecast BOM | DURACK | Partially Flooded | NON- MEDICAL | #Name? | #Name? | #Name? | 1 | WELFARE INSTITUTE | FOREST PLACE PTY LTD | 228 |
| 1 | Forecast for 12/01/2011 1 2:00:00 PM | 11-Jan-11 | Forecast BOM | DURACK | Partially Flooded | NON- MEDICAL | #Name? | #Name? | #Name? | 1 | WELFARE INSTITUTE | FOREST PLACE PTY LTD | 227 |
| 1 | Forecast for 12/01/2011 1 2:00:00 PM | 11-Jan-11 | Forecast BOM | PINJARRA HILLS | Partially Flooded | EDUCATION | #Name? | #Name? | #Name? | 1 | SCHOOL | BRISBANE INDEPENDEN T SCHOOL INC | 113 |
| 1 | Forecast for 12/01/2011 1 2:00:00 PM | 11-Jan-11 | Forecast BOM | DUTTON PARK | Partially Flooded | EDUCATION | #Name? | #Name? | #Name? | 1 | SCHOOL | THE CORPORATI ON OF THE TRUSTEES OF THE ROMAN | 77 |
| 1 | Forecast for 12/01/2011 1 2:00:00 PM | 11-Jan-11 | Forecast BOM | SHERWOOD | Partially Flooded | EDUCATION | #Name? | #Name? | #Name? | 1 | SCHOOL | EDUCATION QUEENSLA ND | 154 |
| 1 | Forecast for 12/01/2011 1 2:00:00 PM | 11-Jan-11 | Forecast BOM | SOUTH BRISBANE | Partially Flooded | COMMUNIC ATION | #Name? | #Name? | #Name? | 1 | COMMS TOWER | | 51 |
| 1 | Forecast for 12/01/2011 1 2:00:00 PM | 11-Jan-11 | Forecast BOM | INDOOROO PILLY | Partially Flooded | SEWER | #Name? | #Name? | #Name? | 1 | PUMP STATION | | 95 |

| | | | | | | | | | | | | | |
|---|--|-----------|-----------------|-------------------|----------------------|-------------------|--------|--------|--------|---|---------------------------|---|-----|
| 1 | Forecast for 12/01/2011 1 2:00:00 PM | 11-Jan-11 | Forecast BOM | CHELMER | Partially Flooded | EDUCATION | #Name? | #Name? | #Name? | 1 | SCHOOL | EDUCATION QUEENSLA ND | 92 |
| 1 | Forecast for 12/01/2011 1 2:00:00 PM | 11-Jan-11 | Forecast BOM | NEW FARM | Partially Flooded | MEDICAL | #Name? | #Name? | #Name? | 1 | HOSPITAL | NEW FARM HOSPITALS PTY LTD | 55 |
| 1 | Forecast for 12/01/2011 1 2:00:00 PM | 11-Jan-11 | Forecast BOM | INDOOROO PILLY | Partially Flooded | SEWER | #Name? | #Name? | #Name? | 1 | PUMP STATION | | 98 |
| 1 | Forecast for 12/01/2011 1 2:00:00 PM | 11-Jan-11 | Forecast BOM | COORPARO O | Partially Flooded | EDUCATION | #Name? | #Name? | #Name? | 1 | SCHOOL | EDUCATION QUEENSLA ND | 82 |
| 1 | Forecast for 12/01/2011 1 2:00:00 PM | 11-Jan-11 | Forecast BOM | ROCKLEA | Flooded | COMMUNIC ATION | #Name? | #Name? | #Name? | 1 | COMMS TOWER | | 164 |
| 1 | Forecast for 12/01/2011 1 2:00:00 PM | 11-Jan-11 | Forecast BOM | ST LUCIA | Partially Flooded | ACCOMMO DATION | #Name? | #Name? | #Name? | 1 | GUEST HOUSE/HOS TEL | PRESBYTE RIAN CHURCH OF QUEENSLA ND | 104 |
| 1 | Forecast for 12/01/2011 1 2:00:00 PM | 11-Jan-11 | Forecast BOM | ROCKLEA | Partially Flooded | SEWER | #Name? | #Name? | #Name? | 1 | PUMP STATION | | 125 |
| 1 | Forecast for 12/01/2011 1 2:00:00 PM | 11-Jan-11 | Forecast BOM | TENNYSON | Partially Flooded | ENERGY | #Name? | #Name? | #Name? | 1 | ENERGEX | | 133 |
| 1 | Forecast for 12/01/2011 1 2:00:00 PM | 11-Jan-11 | Forecast BOM | ST LUCIA | Partially Flooded | ACCOMMO DATION | #Name? | #Name? | #Name? | 1 | GUEST HOUSE/HOS TEL | KINGS COLLEGE | 105 |
| 1 | Forecast for 12/01/2011 1 2:00:00 PM | 11-Jan-11 | Forecast BOM | YERONGA | Partially Flooded | SEWER | #Name? | #Name? | #Name? | 1 | PUMP STATION | | 127 |

| | | | | | | | | | | | | |
|---|--|-----------|-----------------|-------------------|----------------------|-----------------|--------|--------|--------|------------------------|---|-----|
| 1 | Forecast for 12/01/2011 1 2:00:00 PM | 11-Jan-11 | Forecast BOM | CHELMER | Partially Flooded | NON- MEDICAL | #Name? | #Name? | #Name? | 1 WELFARE INSTITUTE | ANGLICAN DIOCESE OF BRISBANE DEPARTME NT FOR | 94 |
| 1 | Forecast for 12/01/2011 1 2:00:00 PM | 11-Jan-11 | Forecast BOM | YERONGA | Partially Flooded | SEWER | #Name? | #Name? | #Name? | 1 PUMP STATION | | 101 |
| 1 | Forecast for 12/01/2011 1 2:00:00 PM | 11-Jan-11 | Forecast BOM | CORINDA | Partially Flooded | MEDICAL | #Name? | #Name? | #Name? | 1 HOSPITAL | THE CORPORATI ON OF THE METHODIST CHURCH OF | 152 |
| 1 | Forecast for 12/01/2011 1 2:00:00 PM | 11-Jan-11 | Forecast BOM | CORINDA | Partially Flooded | EDUCATION | #Name? | #Name? | #Name? | 1 SCHOOL | DEPARTME NT OF ADMINISTR ATIVE SERVICES QLD | 188 |
| 1 | Forecast for 12/01/2011 1 2:00:00 PM | 11-Jan-11 | Forecast BOM | INDOOROO PILLY | Partially Flooded | SEWER | #Name? | #Name? | #Name? | 1 PUMP STATION | | 89 |
| 1 | Forecast for 12/01/2011 1 2:00:00 PM | 11-Jan-11 | Forecast BOM | YERONGA | Partially Flooded | WATER SUPPLY | #Name? | #Name? | #Name? | 1 SAMPLING POINT | | 130 |
| 1 | Forecast for 12/01/2011 1 2:00:00 PM | 11-Jan-11 | Forecast BOM | YERONGA | Partially Flooded | WATER SUPPLY | #Name? | #Name? | #Name? | 1 SAMPLING POINT | | 129 |
| 1 | Forecast for 12/01/2011 1 2:00:00 PM | 11-Jan-11 | Forecast BOM | YERONGA | Partially Flooded | SEWER | #Name? | #Name? | #Name? | 1 PUMP STATION | | 128 |
| 1 | Forecast for 12/01/2011 1 2:00:00 PM | 11-Jan-11 | Forecast BOM | CORINDA | Partially Flooded | EDUCATION | #Name? | #Name? | #Name? | 1 SCHOOL | DEPARTME NT OF EDUCATION - STATE | 189 |

| | | | | | | | | | | | | | |
|---|--|-----------|-----------------|--------------------|----------------------|-------------------|--------|--------|--------|---|-------------------|--|-----|
| 1 | Forecast for 12/01/2011 1 2:00:00 PM | 11-Jan-11 | Forecast BOM | INDOOROO PILLY | Partially Flooded | EDUCATION | #Name? | #Name? | #Name? | 1 | SCHOOL | TRUSTEES OF THE CHRISTIAN BROTHERS | 90 |
| 1 | Forecast for 12/01/2011 1 2:00:00 PM | 11-Jan-11 | Forecast BOM | YEERONGPI LLY | Partially Flooded | COMMUNIC ATION | #Name? | #Name? | #Name? | 1 | COMMS TOWER | | 131 |
| 1 | Forecast for 12/01/2011 1 2:00:00 PM | 11-Jan-11 | Forecast BOM | YEERONGPI LLY | Partially Flooded | SEWER | #Name? | #Name? | #Name? | 1 | PUMP STATION | | 132 |
| 1 | Forecast for 12/01/2011 1 2:00:00 PM | 11-Jan-11 | Forecast BOM | YEERONGPI LLY | Partially Flooded | WATER SUPPLY | #Name? | #Name? | #Name? | 1 | PRESSURE GAUGE | | 166 |
| 1 | Forecast for 12/01/2011 1 2:00:00 PM | 11-Jan-11 | Forecast BOM | YEERONGPI LLY | Partially Flooded | WATER SUPPLY | #Name? | #Name? | #Name? | 1 | PRESSURE GAUGE | | 165 |
| 1 | Forecast for 12/01/2011 1 2:00:00 PM | 11-Jan-11 | Forecast BOM | KENMORE | Partially Flooded | SEWER | #Name? | #Name? | #Name? | 1 | PUMP STATION | | 86 |
| 1 | Forecast for 12/01/2011 1 2:00:00 PM | 11-Jan-11 | Forecast BOM | ST LUCIA | Partially Flooded | EDUCATION | #Name? | #Name? | #Name? | 1 | SCHOOL | UNIVERSITY OF QUEENSLA ND | 71 |
| 1 | Forecast for 12/01/2011 1 2:00:00 PM | 11-Jan-11 | Forecast BOM | ROCKLEA | Partially Flooded | COMMUNIC ATION | #Name? | #Name? | #Name? | 1 | COMMS TOWER | | 202 |
| 1 | Forecast for 12/01/2011 1 2:00:00 PM | 11-Jan-11 | Forecast BOM | FIG TREE POCKET | Partially Flooded | EDUCATION | #Name? | #Name? | #Name? | 1 | SCHOOL | EDUCATION QUEENSLA ND FIG TREE POCKET STATE | 121 |
| 1 | Forecast for 12/01/2011 1 2:00:00 PM | 11-Jan-11 | Forecast BOM | ST LUCIA | Partially Flooded | SEWER | #Name? | #Name? | #Name? | 1 | PUMP STATION | | 108 |

| | | | | | | | | | | | | | |
|---|--|-----------|-----------------|------------------|----------------------|-------------------|--------|--------|--------|---|----------------------|------------------------------|-----|
| 1 | Forecast for 12/01/2011 2:00:00 PM | 11-Jan-11 | Forecast BOM | GRACEVILL E | Partially Flooded | MEDICAL | #Name? | #Name? | #Name? | 1 | HOSPITAL | BETHANY CHRISTIAN CARE | 124 |
| 1 | Forecast for 12/01/2011 2:00:00 PM | 11-Jan-11 | Forecast BOM | ROCKLEA | Partially Flooded | COMMUNIC ATION | #Name? | #Name? | #Name? | 1 | COMMS TOWER | | 197 |
| 1 | Forecast for 12/01/2011 2:00:00 PM | 11-Jan-11 | Forecast BOM | ROCKLEA | Partially Flooded | COMMUNIC ATION | #Name? | #Name? | #Name? | 1 | COMMS TOWER | | 168 |
| 1 | Forecast for 12/01/2011 2:00:00 PM | 11-Jan-11 | Forecast BOM | ROCKLEA | Partially Flooded | COMMUNIC ATION | #Name? | #Name? | #Name? | 1 | COMMS TOWER | | 204 |
| 1 | Forecast for 12/01/2011 2:00:00 PM | 11-Jan-11 | Forecast BOM | SINNAMON PARK | Partially Flooded | NON- MEDICAL | #Name? | #Name? | #Name? | 1 | WELFARE INSTITUTE | WESLEY CENTRAL MISSION | 143 |
| 1 | Forecast for 12/01/2011 2:00:00 PM | 11-Jan-11 | Forecast BOM | ARCHERFIE LD | Partially Flooded | SEWER | #Name? | #Name? | #Name? | 1 | PUMP STATION | | 216 |
| 1 | Forecast for 12/01/2011 2:00:00 PM | 11-Jan-11 | Forecast BOM | ROCKLEA | Partially Flooded | COMMUNIC ATION | #Name? | #Name? | #Name? | 1 | COMMS TOWER | | 157 |
| 1 | Forecast for 12/01/2011 2:00:00 PM | 11-Jan-11 | Forecast BOM | ROCKLEA | Partially Flooded | COMMUNIC ATION | #Name? | #Name? | #Name? | 1 | COMMS TOWER | | 162 |
| 1 | Forecast for 12/01/2011 2:00:00 PM | 11-Jan-11 | Forecast BOM | ROCKLEA | Partially Flooded | COMMUNIC ATION | #Name? | #Name? | #Name? | 1 | COMMS TOWER | | 161 |
| 1 | Forecast for 12/01/2011 2:00:00 PM | 11-Jan-11 | Forecast BOM | ROCKLEA | Partially Flooded | COMMUNIC ATION | #Name? | #Name? | #Name? | 1 | COMMS TOWER | | 160 |
| 1 | Forecast for 12/01/2011 2:00:00 PM | 11-Jan-11 | Forecast BOM | ROCKLEA | Partially Flooded | COMMUNIC ATION | #Name? | #Name? | #Name? | 1 | COMMS TOWER | | 158 |

| | | | | | | | | | | | |
|---|--|-----------|-----------------|--------------------|----------------------|-------------------|--------|--------|--------|---------------------------|---|
| 1 | Forecast for 12/01/2011 2:00:00 PM | 11-Jan-11 | Forecast BOM | ROCKLEA | Partially Flooded | COMMUNIC ATION | #Name? | #Name? | #Name? | COMMS TOWER | 156 |
| 1 | Forecast for 12/01/2011 2:00:00 PM | 11-Jan-11 | Forecast BOM | ROCKLEA | Partially Flooded | COMMUNIC ATION | #Name? | #Name? | #Name? | COMMS TOWER | 159 |
| 1 | Forecast for 12/01/2011 2:00:00 PM | 11-Jan-11 | Forecast BOM | ACACIA RIDGE | Partially Flooded | COMMUNIC ATION | #Name? | #Name? | #Name? | COMMS TOWER | 226 |
| 1 | Forecast for 12/01/2011 2:00:00 PM | 11-Jan-11 | Forecast BOM | KENMORE | Partially Flooded | SEWER | #Name? | #Name? | #Name? | PUMP STATION | 116 |
| 1 | Forecast for 12/01/2011 2:00:00 PM | 11-Jan-11 | Forecast BOM | KENMORE | Partially Flooded | SEWER | #Name? | #Name? | #Name? | PUMP STATION | 115 |
| 1 | Forecast for 12/01/2011 2:00:00 PM | 11-Jan-11 | Forecast BOM | ROCKLEA | Partially Flooded | COMMUNIC ATION | #Name? | #Name? | #Name? | COMMS TOWER | 194 |
| 1 | Forecast for 12/01/2011 2:00:00 PM | 11-Jan-11 | Forecast BOM | FIG TREE POCKET | Partially Flooded | SEWER | #Name? | #Name? | #Name? | PUMP STATION | 148 |
| 1 | Forecast for 12/01/2011 2:00:00 PM | 11-Jan-11 | Forecast BOM | ROCKLEA | Partially Flooded | COMMUNIC ATION | #Name? | #Name? | #Name? | COMMS TOWER | 193 |
| 1 | Forecast for 12/01/2011 2:00:00 PM | 11-Jan-11 | Forecast BOM | ROCKLEA | Partially Flooded | SEWER | #Name? | #Name? | #Name? | TREATMEN T PLANT | 192 |
| 1 | Forecast for 12/01/2011 2:00:00 PM | 11-Jan-11 | Forecast BOM | OXLEY | Partially Flooded | ACCOMMO DATION | #Name? | #Name? | #Name? | GUEST HOUSE/HOS TEL | THE CONGREGA TION OF THE PASSION IN AUSTRALIA 185 |

| | | | | | | | | | | | |
|---|--|-----------|-----------------|--------------------|----------------------|-----------------|--------|--------|--------|----------------------|--|
| 1 | Forecast for 12/01/2011 1 2:00:00 PM | 11-Jan-11 | Forecast BOM | KARANA DOWNS | Partially Flooded | SEWER | #Name? | #Name? | #Name? | TREATMEN T PLANT | 136 |
| 1 | Forecast for 12/01/2011 1 2:00:00 PM | 11-Jan-11 | Forecast BOM | FIG TREE POCKET | Partially Flooded | SEWER | #Name? | #Name? | #Name? | PUMP STATION | 119 |
| 1 | Forecast for 12/01/2011 1 2:00:00 PM | 11-Jan-11 | Forecast BOM | SHERWOOD | Partially Flooded | WATER SUPPLY | #Name? | #Name? | #Name? | SAMPLING POINT | 151 |
| 1 | Forecast for 12/01/2011 1 2:00:00 PM | 11-Jan-11 | Forecast BOM | KENMORE | Partially Flooded | SEWER | #Name? | #Name? | #Name? | PUMP STATION | 117 |
| 1 | Forecast for 12/01/2011 1 2:00:00 PM | 11-Jan-11 | Forecast BOM | JINDALEE | Partially Flooded | SEWER | #Name? | #Name? | #Name? | PUMP STATION | 140 |
| 1 | Forecast for 12/01/2011 1 2:00:00 PM | 11-Jan-11 | Forecast BOM | JINDALEE | Partially Flooded | SEWER | #Name? | #Name? | #Name? | PUMP STATION | 118 |
| 1 | Forecast for 12/01/2011 1 2:00:00 PM | 11-Jan-11 | Forecast BOM | CORINDA | Partially Flooded | NON- MEDICAL | #Name? | #Name? | #Name? | WELFARE INSTITUTE | THE QUEENSLA ND SOCIETY FOR CRIPPLED CHILDREN 153 |
| 1 | Forecast for 12/01/2011 1 2:00:00 PM | 11-Jan-11 | Forecast BOM | KENMORE | Partially Flooded | SEWER | #Name? | #Name? | #Name? | PUMP STATION | 114 |
| 1 | Forecast for 12/01/2011 1 2:00:00 PM | 11-Jan-11 | Forecast BOM | WESTLAKE | Partially Flooded | SEWER | #Name? | #Name? | #Name? | PUMP STATION | 180 |
| 1 | Forecast for 12/01/2011 1 2:00:00 PM | 11-Jan-11 | Forecast BOM | PINJARRA HILLS | Partially Flooded | EDUCATION | #Name? | #Name? | #Name? | SCHOOL | UNIVERSITY OF QUEENSLA ND 139 |

| | | | | | | | | | | | |
|---|--|-----------|-----------------|----------------|----------------------|-------------------|--------|--------|--------|-------------------|---|
| 1 | Forecast for 12/01/2011 1 2:00:00 PM | 11-Jan-11 | Forecast BOM | BELLBOWRI E | Partially Flooded | SEWER | #Name? | #Name? | #Name? | PUMP 1 STATION | 210 |
| 1 | Forecast for 12/01/2011 1 2:00:00 PM | 11-Jan-11 | Forecast BOM | BELLBOWRI E | Partially Flooded | EDUCATION | #Name? | #Name? | #Name? | 1 SCHOOL | BRISBANE CITY COUNCIL 211 |
| 1 | Forecast for 12/01/2011 1 2:00:00 PM | 11-Jan-11 | Forecast BOM | WACOL | Partially Flooded | MEDICAL | #Name? | #Name? | #Name? | 1 HOSPITAL | DEPARTME NT OF HEALTH - STATE 230 |
| 1 | Forecast for 12/01/2011 1 2:00:00 PM | 11-Jan-11 | Forecast BOM | EAGLE FARM | Partially Flooded | COMMUNIC ATION | #Name? | #Name? | #Name? | 1 COMMS TOWER | 1 |
| 1 | Forecast for 12/01/2011 1 2:00:00 PM | 11-Jan-11 | Forecast BOM | HAWTHORN E | Partially Flooded | EDUCATION | #Name? | #Name? | #Name? | 1 SCHOOL | THE SISTERS OF THE GOOD SAMARITAN LOURDES 59 |

| PFN | CmbProfile | DESCR | ISSUE DATE | COMM | CELL ID | LOOD TY | Type | RunID | DataGroup | profileNumb | Text32 | Text36 | ID |
|-----|------------|---|------------|-----------------|---------------------|----------------------|---|--------|-----------|-------------|--------|--------|--------|
| 1 | | Forecast for 12/01/2011 12:00:00 PM | 11-Jan-11 | Forecast BOM | FORTITUDE VALLEY | Partially Flooded | Wickham Street | #Name? | #Name? | 1 | 1 | | #Name? |
| 1 | | Forecast for 12/01/2011 12:00:00 PM | 11-Jan-11 | Forecast BOM | HEMMANT | Partially Flooded | Boolarra Street | #Name? | #Name? | 1 | 1 | | #Name? |
| 1 | | Forecast for 12/01/2011 12:00:00 PM | 11-Jan-11 | Forecast BOM | LYTTON | Partially Flooded | Port Of Brisbane Motorway access | #Name? | #Name? | 1 | 1 | | #Name? |
| 1 | | Forecast for 12/01/2011 12:00:00 PM | 11-Jan-11 | Forecast BOM | MURARRIE | Partially Flooded | Port Of Brisbane Motorway | #Name? | #Name? | 1 | 1 | | #Name? |
| 1 | | Forecast for 12/01/2011 12:00:00 PM | 11-Jan-11 | Forecast BOM | PINKENBA | Partially Flooded | Dickson Street | #Name? | #Name? | 1 | 1 | | #Name? |
| 1 | | Forecast for 12/01/2011 12:00:00 PM | 11-Jan-11 | Forecast BOM | PINKENBA | Partially Flooded | Mcbride Road | #Name? | #Name? | 1 | 1 | | #Name? |
| 1 | | Forecast for 12/01/2011 12:00:00 PM | 11-Jan-11 | Forecast BOM | PINKENBA | Partially Flooded | Orsova Street | #Name? | #Name? | 1 | 1 | | #Name? |
| 1 | | Forecast for 12/01/2011 12:00:00 PM | 11-Jan-11 | Forecast BOM | ARCHERFIE LD | Partially Flooded | Gladstone Street | #Name? | #Name? | 1 | 1 | | #Name? |
| 1 | | Forecast for 12/01/2011 12:00:00 PM | 11-Jan-11 | Forecast BOM | KANGAROO POINT | Partially Flooded | Bright Street | #Name? | #Name? | 1 | 1 | | #Name? |
| 1 | | Forecast for 12/01/2011 12:00:00 PM | 11-Jan-11 | Forecast BOM | JINDALEE | Partially Flooded | Yallambee Road | #Name? | #Name? | 1 | 1 | | #Name? |
| 1 | | Forecast for 12/01/2011 12:00:00 PM | 11-Jan-11 | Forecast BOM | ALBION | Partially Flooded | Crosby Road | #Name? | #Name? | 1 | 1 | | #Name? |

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|---|--|-----------|-----------------|----------|----------------------|-------------------------|--------|--------|---|---|--------|
| 1 | Forecast for 12/01/2011 1 2:00:00 PM | 11-Jan-11 | Forecast BOM | ALBION | Partially Flooded | Lucy Street | #Name? | #Name? | 1 | 1 | #Name? |
| 1 | Forecast for 12/01/2011 1 2:00:00 PM | 11-Jan-11 | Forecast BOM | HAMILTON | Partially Flooded | Hunt Street | #Name? | #Name? | 1 | 1 | #Name? |
| 1 | Forecast for 12/01/2011 1 2:00:00 PM | 11-Jan-11 | Forecast BOM | HERSTON | Partially Flooded | Butterfield Street | #Name? | #Name? | 1 | 1 | #Name? |
| 1 | Forecast for 12/01/2011 1 2:00:00 PM | 11-Jan-11 | Forecast BOM | NEWSTEAD | Partially Flooded | Breakfast Creek Road | #Name? | #Name? | 1 | 1 | #Name? |
| 1 | Forecast for 12/01/2011 1 2:00:00 PM | 11-Jan-11 | Forecast BOM | NEWSTEAD | Partially Flooded | Edmund Street | #Name? | #Name? | 1 | 1 | #Name? |
| 1 | Forecast for 12/01/2011 1 2:00:00 PM | 11-Jan-11 | Forecast BOM | NEWSTEAD | Partially Flooded | Evelyn Street | #Name? | #Name? | 1 | 1 | #Name? |
| 1 | Forecast for 12/01/2011 1 2:00:00 PM | 11-Jan-11 | Forecast BOM | WINDSOR | Partially Flooded | Gennon Street | #Name? | #Name? | 1 | 1 | #Name? |
| 1 | Forecast for 12/01/2011 1 2:00:00 PM | 11-Jan-11 | Forecast BOM | WINDSOR | Partially Flooded | Hadfield Street | #Name? | #Name? | 1 | 1 | #Name? |
| 1 | Forecast for 12/01/2011 1 2:00:00 PM | 11-Jan-11 | Forecast BOM | WINDSOR | Partially Flooded | Lane Street | #Name? | #Name? | 1 | 1 | #Name? |
| 1 | Forecast for 12/01/2011 1 2:00:00 PM | 11-Jan-11 | Forecast BOM | WINDSOR | Partially Flooded | Mcdonald Road | #Name? | #Name? | 1 | 1 | #Name? |
| 1 | Forecast for 12/01/2011 1 2:00:00 PM | 11-Jan-11 | Forecast BOM | BULIMBA | Partially Flooded | Carr Street | #Name? | #Name? | 1 | 1 | #Name? |

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|---|--|--|-----------|-----------------|--------------------|----------------------|---------------------|--------|--------|---|---|--------|
| 1 | | Forecast for 12/01/2011 1 2:00:00 PM | 11-Jan-11 | Forecast BOM | BULIMBA | Partially Flooded | Eton Street | #Name? | #Name? | 1 | 1 | #Name? |
| 1 | | Forecast for 12/01/2011 1 2:00:00 PM | 11-Jan-11 | Forecast BOM | BULIMBA | Partially Flooded | Godwin Street | #Name? | #Name? | 1 | 1 | #Name? |
| 1 | | Forecast for 12/01/2011 1 2:00:00 PM | 11-Jan-11 | Forecast BOM | BULIMBA | Partially Flooded | Hawthorne Road | #Name? | #Name? | 1 | 1 | #Name? |
| 1 | | Forecast for 12/01/2011 1 2:00:00 PM | 11-Jan-11 | Forecast BOM | BULIMBA | Partially Flooded | Redcar Street | #Name? | #Name? | 1 | 1 | #Name? |
| 1 | | Forecast for 12/01/2011 1 2:00:00 PM | 11-Jan-11 | Forecast BOM | BULIMBA | Partially Flooded | Stuart Street | #Name? | #Name? | 1 | 1 | #Name? |
| 1 | | Forecast for 12/01/2011 1 2:00:00 PM | 11-Jan-11 | Forecast BOM | HAWTHORN E | Partially Flooded | Elliott Street | #Name? | #Name? | 1 | 1 | #Name? |
| 1 | | Forecast for 12/01/2011 1 2:00:00 PM | 11-Jan-11 | Forecast BOM | FIG TREE POCKET | Partially Flooded | Kenny Street | #Name? | #Name? | 1 | 1 | #Name? |
| 1 | | Forecast for 12/01/2011 1 2:00:00 PM | 11-Jan-11 | Forecast BOM | WEST END | Partially Flooded | Hill End Terrace | #Name? | #Name? | 1 | 1 | #Name? |
| 1 | | Forecast for 12/01/2011 1 2:00:00 PM | 11-Jan-11 | Forecast BOM | CHELMER | Partially Flooded | Harte Street | #Name? | #Name? | 1 | 1 | #Name? |
| 1 | | Forecast for 12/01/2011 1 2:00:00 PM | 11-Jan-11 | Forecast BOM | CHELMER | Partially Flooded | Oxley Road | #Name? | #Name? | 1 | 1 | #Name? |
| 1 | | Forecast for 12/01/2011 1 2:00:00 PM | 11-Jan-11 | Forecast BOM | BRISBANE | Partially Flooded | Gardens Pt Road | #Name? | #Name? | 1 | 1 | #Name? |

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|---|--|-----------|-----------------|-------------------|----------------------|----------------------|--------|--------|---|---|--------|
| 1 | Forecast for 12/01/2011 2:00:00 PM | 11-Jan-11 | Forecast BOM | NEW FARM | Partially Flooded | Fuljames Lane | #Name? | #Name? | 1 | 1 | #Name? |
| 1 | Forecast for 12/01/2011 2:00:00 PM | 11-Jan-11 | Forecast BOM | NEW FARM | Partially Flooded | Lamington Street | #Name? | #Name? | 1 | 1 | #Name? |
| 1 | Forecast for 12/01/2011 2:00:00 PM | 11-Jan-11 | Forecast BOM | COORPARO O | Partially Flooded | Barnes Avenue | #Name? | #Name? | 1 | 1 | #Name? |
| 1 | Forecast for 12/01/2011 2:00:00 PM | 11-Jan-11 | Forecast BOM | EAST BRISBANE | Partially Flooded | Hampton Street | #Name? | #Name? | 1 | 1 | #Name? |
| 1 | Forecast for 12/01/2011 2:00:00 PM | 11-Jan-11 | Forecast BOM | EAST BRISBANE | Partially Flooded | Kingfisher Lane | #Name? | #Name? | 1 | 1 | #Name? |
| 1 | Forecast for 12/01/2011 2:00:00 PM | 11-Jan-11 | Forecast BOM | GREENSLO PES | Partially Flooded | Gladys Street | #Name? | #Name? | 1 | 1 | #Name? |
| 1 | Forecast for 12/01/2011 2:00:00 PM | 11-Jan-11 | Forecast BOM | NORMAN PARK | Partially Flooded | Canara Street | #Name? | #Name? | 1 | 1 | #Name? |
| 1 | Forecast for 12/01/2011 2:00:00 PM | 11-Jan-11 | Forecast BOM | NORMAN PARK | Partially Flooded | Wordsworth Street | #Name? | #Name? | 1 | 1 | #Name? |
| 1 | Forecast for 12/01/2011 2:00:00 PM | 11-Jan-11 | Forecast BOM | WOOLLOON GABBA | Partially Flooded | Longlands Street | #Name? | #Name? | 1 | 1 | #Name? |
| 1 | Forecast for 12/01/2011 2:00:00 PM | 11-Jan-11 | Forecast BOM | WOOLLOON GABBA | Partially Flooded | Preston Street | #Name? | #Name? | 1 | 1 | #Name? |
| 1 | Forecast for 12/01/2011 2:00:00 PM | 11-Jan-11 | Forecast BOM | YERONGA | Partially Flooded | Aranui Street | #Name? | #Name? | 1 | 1 | #Name? |

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|---|--|-----------|-----------------|-----------|----------------------|--------------------|--------|--------|---|---|--------|
| 1 | Forecast for 12/01/2011 2:00:00 PM | 11-Jan-11 | Forecast BOM | FAIRFIELD | Partially Flooded | Fenton Street | #Name? | #Name? | 1 | 1 | #Name? |
| 1 | Forecast for 12/01/2011 2:00:00 PM | 11-Jan-11 | Forecast BOM | HEMMANT | Partially Flooded | Burnby Road | #Name? | #Name? | 1 | 1 | #Name? |
| 1 | Forecast for 12/01/2011 2:00:00 PM | 11-Jan-11 | Forecast BOM | HEMMANT | Partially Flooded | Garth Street | #Name? | #Name? | 1 | 1 | #Name? |
| 1 | Forecast for 12/01/2011 2:00:00 PM | 11-Jan-11 | Forecast BOM | HEMMANT | Partially Flooded | Ragnor Road | #Name? | #Name? | 1 | 1 | #Name? |
| 1 | Forecast for 12/01/2011 2:00:00 PM | 11-Jan-11 | Forecast BOM | PINKENBA | Partially Flooded | Brownlee Street | #Name? | #Name? | 1 | 1 | #Name? |
| 1 | Forecast for 12/01/2011 2:00:00 PM | 11-Jan-11 | Forecast BOM | PINKENBA | Partially Flooded | Gannon Road | #Name? | #Name? | 1 | 1 | #Name? |
| 1 | Forecast for 12/01/2011 2:00:00 PM | 11-Jan-11 | Forecast BOM | PINKENBA | Partially Flooded | Hopper Street | #Name? | #Name? | 1 | 1 | #Name? |
| 1 | Forecast for 12/01/2011 2:00:00 PM | 11-Jan-11 | Forecast BOM | PINKENBA | Partially Flooded | Orient Avenue | #Name? | #Name? | 1 | 1 | #Name? |
| 1 | Forecast for 12/01/2011 2:00:00 PM | 11-Jan-11 | Forecast BOM | PINKENBA | Partially Flooded | Sandmere Road | #Name? | #Name? | 1 | 1 | #Name? |
| 1 | Forecast for 12/01/2011 2:00:00 PM | 11-Jan-11 | Forecast BOM | PINKENBA | Partially Flooded | Serpentine Road | #Name? | #Name? | 1 | 1 | #Name? |
| 1 | Forecast for 12/01/2011 2:00:00 PM | 11-Jan-11 | Forecast BOM | PINKENBA | Partially Flooded | Yarra Street | #Name? | #Name? | 1 | 1 | #Name? |

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|---|--|-----------|-----------------|-------------------|----------------------|--------------------|--------|--------|---|---|--------|
| 1 | Forecast for 12/01/2011 2:00:00 PM | 11-Jan-11 | Forecast BOM | TINGALPA | Partially Flooded | Fleming Road | #Name? | #Name? | 1 | 1 | #Name? |
| 1 | Forecast for 12/01/2011 2:00:00 PM | 11-Jan-11 | Forecast BOM | WYNNUM WEST | Partially Flooded | Haynes Road | #Name? | #Name? | 1 | 1 | #Name? |
| 1 | Forecast for 12/01/2011 2:00:00 PM | 11-Jan-11 | Forecast BOM | MILTON | Partially Flooded | Railway Terrace | #Name? | #Name? | 1 | 1 | #Name? |
| 1 | Forecast for 12/01/2011 2:00:00 PM | 11-Jan-11 | Forecast BOM | OXLEY | Partially Flooded | Bayford Street | #Name? | #Name? | 1 | 1 | #Name? |
| 1 | Forecast for 12/01/2011 2:00:00 PM | 11-Jan-11 | Forecast BOM | ROCKLEA | Partially Flooded | Wileri Street | #Name? | #Name? | 1 | 1 | #Name? |
| 1 | Forecast for 12/01/2011 2:00:00 PM | 11-Jan-11 | Forecast BOM | TOOWONG | Partially Flooded | Burns Road | #Name? | #Name? | 1 | 1 | #Name? |
| 1 | Forecast for 12/01/2011 2:00:00 PM | 11-Jan-11 | Forecast BOM | CORINDA | Partially Flooded | Eddystone Road | #Name? | #Name? | 1 | 1 | #Name? |
| 1 | Forecast for 12/01/2011 2:00:00 PM | 11-Jan-11 | Forecast BOM | KANGAROO POINT | Partially Flooded | Annie Street | #Name? | #Name? | 1 | 1 | #Name? |
| 1 | Forecast for 12/01/2011 2:00:00 PM | 11-Jan-11 | Forecast BOM | BOWEN HILLS | Partially Flooded | Abbotsford Road | #Name? | #Name? | 1 | 1 | #Name? |
| 1 | Forecast for 12/01/2011 2:00:00 PM | 11-Jan-11 | Forecast BOM | BOWEN HILLS | Partially Flooded | Gebbie Street | #Name? | #Name? | 1 | 1 | #Name? |
| 1 | Forecast for 12/01/2011 2:00:00 PM | 11-Jan-11 | Forecast BOM | NEWSTEAD | Partially Flooded | Maud Street | #Name? | #Name? | 1 | 1 | #Name? |

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|---|--|--|-----------|-----------------|-------------------|----------------------|------------------------|--------|--------|---|---|--------|
| 1 | | Forecast for 12/01/2011 1 2:00:00 PM | 11-Jan-11 | Forecast BOM | WINDSOR | Partially Flooded | Green Terrace | #Name? | #Name? | 1 | 1 | #Name? |
| 1 | | Forecast for 12/01/2011 1 2:00:00 PM | 11-Jan-11 | Forecast BOM | WINDSOR | Partially Flooded | Le Geyt Street | #Name? | #Name? | 1 | 1 | #Name? |
| 1 | | Forecast for 12/01/2011 1 2:00:00 PM | 11-Jan-11 | Forecast BOM | BALMORAL | Partially Flooded | Marie Street | #Name? | #Name? | 1 | 1 | #Name? |
| 1 | | Forecast for 12/01/2011 1 2:00:00 PM | 11-Jan-11 | Forecast BOM | BULIMBA | Partially Flooded | Carbeen Street | #Name? | #Name? | 1 | 1 | #Name? |
| 1 | | Forecast for 12/01/2011 1 2:00:00 PM | 11-Jan-11 | Forecast BOM | AUCHENFL OWER | Partially Flooded | Haig Road | #Name? | #Name? | 1 | 1 | #Name? |
| 1 | | Forecast for 12/01/2011 1 2:00:00 PM | 11-Jan-11 | Forecast BOM | PADDINGTO N | Partially Flooded | Baroona Road | #Name? | #Name? | 1 | 1 | #Name? |
| 1 | | Forecast for 12/01/2011 1 2:00:00 PM | 11-Jan-11 | Forecast BOM | BRISBANE | Partially Flooded | Queens Whrf Road | #Name? | #Name? | 1 | 1 | #Name? |
| 1 | | Forecast for 12/01/2011 1 2:00:00 PM | 11-Jan-11 | Forecast BOM | SOUTH BRISBANE | Partially Flooded | Glenelg Street | #Name? | #Name? | 1 | 1 | #Name? |
| 1 | | Forecast for 12/01/2011 1 2:00:00 PM | 11-Jan-11 | Forecast BOM | KANGAROO POINT | Partially Flooded | Lower River Terrace | #Name? | #Name? | 1 | 1 | #Name? |
| 1 | | Forecast for 12/01/2011 1 2:00:00 PM | 11-Jan-11 | Forecast BOM | CHELMER | Partially Flooded | Luxford Street | #Name? | #Name? | 1 | 1 | #Name? |
| 1 | | Forecast for 12/01/2011 1 2:00:00 PM | 11-Jan-11 | Forecast BOM | CHELMER | Partially Flooded | Scout Lane | #Name? | #Name? | 1 | 1 | #Name? |

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|---|--|--|-----------|-----------------|--------------------|----------------------|---------------------|--------|--------|---|---|--------|
| 1 | | Forecast for 12/01/2011 1 2:00:00 PM | 11-Jan-11 | Forecast BOM | SHERWOOD | Partially Flooded | Dunella Street | #Name? | #Name? | 1 | 1 | #Name? |
| 1 | | Forecast for 12/01/2011 1 2:00:00 PM | 11-Jan-11 | Forecast BOM | FIG TREE POCKET | Partially Flooded | Goya Street | #Name? | #Name? | 1 | 1 | #Name? |
| 1 | | Forecast for 12/01/2011 1 2:00:00 PM | 11-Jan-11 | Forecast BOM | NEW FARM | Partially Flooded | Brunswick Street | #Name? | #Name? | 1 | 1 | #Name? |
| 1 | | Forecast for 12/01/2011 1 2:00:00 PM | 11-Jan-11 | Forecast BOM | NEW FARM | Partially Flooded | Refinery Parade | #Name? | #Name? | 1 | 1 | #Name? |
| 1 | | Forecast for 12/01/2011 1 2:00:00 PM | 11-Jan-11 | Forecast BOM | NEW FARM | Partially Flooded | Sydney Street | #Name? | #Name? | 1 | 1 | #Name? |
| 1 | | Forecast for 12/01/2011 1 2:00:00 PM | 11-Jan-11 | Forecast BOM | EAST BRISBANE | Partially Flooded | Caswell Street | #Name? | #Name? | 1 | 1 | #Name? |
| 1 | | Forecast for 12/01/2011 1 2:00:00 PM | 11-Jan-11 | Forecast BOM | EAST BRISBANE | Partially Flooded | Fisher Street | #Name? | #Name? | 1 | 1 | #Name? |
| 1 | | Forecast for 12/01/2011 1 2:00:00 PM | 11-Jan-11 | Forecast BOM | NORMAN PARK | Partially Flooded | Crown Street | #Name? | #Name? | 1 | 1 | #Name? |
| 1 | | Forecast for 12/01/2011 1 2:00:00 PM | 11-Jan-11 | Forecast BOM | WOOLLOON GABBA | Partially Flooded | Flower Street | #Name? | #Name? | 1 | 1 | #Name? |
| 1 | | Forecast for 12/01/2011 1 2:00:00 PM | 11-Jan-11 | Forecast BOM | WOOLLOON GABBA | Partially Flooded | Hampton Street | #Name? | #Name? | 1 | 1 | #Name? |
| 1 | | Forecast for 12/01/2011 1 2:00:00 PM | 11-Jan-11 | Forecast BOM | HIGHGATE HILL | Partially Flooded | Dudley Street | #Name? | #Name? | 1 | 1 | #Name? |

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|---|--|-----------|-----------------|---------------------|----------------------|---------------------------------|--------|--------|---|---|--------|
| 1 | Forecast for 12/01/2011 2:00:00 PM | 11-Jan-11 | Forecast BOM | YERONGA | Partially Flooded | Yvonne Street | #Name? | #Name? | 1 | 1 | #Name? |
| 1 | Forecast for 12/01/2011 2:00:00 PM | 11-Jan-11 | Forecast BOM | FORTITUDE VALLEY | Partially Flooded | Ann Street | #Name? | #Name? | 1 | 1 | #Name? |
| 1 | Forecast for 12/01/2011 2:00:00 PM | 11-Jan-11 | Forecast BOM | NEWSTEAD | Partially Flooded | Longland Street | #Name? | #Name? | 1 | 1 | #Name? |
| 1 | Forecast for 12/01/2011 2:00:00 PM | 11-Jan-11 | Forecast BOM | FAIRFIELD | Partially Flooded | Bledisloe Street | #Name? | #Name? | 1 | 1 | #Name? |
| 1 | Forecast for 12/01/2011 2:00:00 PM | 11-Jan-11 | Forecast BOM | LYTTON | Partially Flooded | Port Of Brisbane Motorway | #Name? | #Name? | 1 | 1 | #Name? |
| 1 | Forecast for 12/01/2011 2:00:00 PM | 11-Jan-11 | Forecast BOM | PINKENBA | Partially Flooded | Gregg Street | #Name? | #Name? | 1 | 1 | #Name? |
| 1 | Forecast for 12/01/2011 2:00:00 PM | 11-Jan-11 | Forecast BOM | PINKENBA | Partially Flooded | Neill Street | #Name? | #Name? | 1 | 1 | #Name? |
| 1 | Forecast for 12/01/2011 2:00:00 PM | 11-Jan-11 | Forecast BOM | PINKENBA | Partially Flooded | Unwin Street | #Name? | #Name? | 1 | 1 | #Name? |
| 1 | Forecast for 12/01/2011 2:00:00 PM | 11-Jan-11 | Forecast BOM | TINGALPA | Partially Flooded | Wynnum Road | #Name? | #Name? | 1 | 1 | #Name? |
| 1 | Forecast for 12/01/2011 2:00:00 PM | 11-Jan-11 | Forecast BOM | WYNNUM WEST | Partially Flooded | Alness Street | #Name? | #Name? | 1 | 1 | #Name? |
| 1 | Forecast for 12/01/2011 2:00:00 PM | 11-Jan-11 | Forecast BOM | SOUTH BRISBANE | Partially Flooded | Fleet Lane | #Name? | #Name? | 1 | 1 | #Name? |

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|---|--|-----------|-----------------|---------------|----------------------|-----------------------|--------|--------|---|---|--------|
| 1 | Forecast for 12/01/2011 1 2:00:00 PM | 11-Jan-11 | Forecast BOM | YERONGA | Partially Flooded | Kingsley Parade | #Name? | #Name? | 1 | 1 | #Name? |
| 1 | Forecast for 12/01/2011 1 2:00:00 PM | 11-Jan-11 | Forecast BOM | DURACK | Partially Flooded | Bowhill Road | #Name? | #Name? | 1 | 1 | #Name? |
| 1 | Forecast for 12/01/2011 1 2:00:00 PM | 11-Jan-11 | Forecast BOM | MOOROOKA | Partially Flooded | Muriel Avenue | #Name? | #Name? | 1 | 1 | #Name? |
| 1 | Forecast for 12/01/2011 1 2:00:00 PM | 11-Jan-11 | Forecast BOM | OXLEY | Partially Flooded | Alban Street | #Name? | #Name? | 1 | 1 | #Name? |
| 1 | Forecast for 12/01/2011 1 2:00:00 PM | 11-Jan-11 | Forecast BOM | OXLEY | Partially Flooded | Aldersgate Street | #Name? | #Name? | 1 | 1 | #Name? |
| 1 | Forecast for 12/01/2011 1 2:00:00 PM | 11-Jan-11 | Forecast BOM | ROCKLEA | Partially Flooded | Granard Road | #Name? | #Name? | 1 | 1 | #Name? |
| 1 | Forecast for 12/01/2011 1 2:00:00 PM | 11-Jan-11 | Forecast BOM | ROCKLEA | Partially Flooded | Suscatand Street | #Name? | #Name? | 1 | 1 | #Name? |
| 1 | Forecast for 12/01/2011 1 2:00:00 PM | 11-Jan-11 | Forecast BOM | WILLAWON G | Partially Flooded | Bowhill Road | #Name? | #Name? | 1 | 1 | #Name? |
| 1 | Forecast for 12/01/2011 1 2:00:00 PM | 11-Jan-11 | Forecast BOM | RIVERVIEW | Partially Flooded | Duncan Street | #Name? | #Name? | 1 | 1 | #Name? |
| 1 | Forecast for 12/01/2011 1 2:00:00 PM | 11-Jan-11 | Forecast BOM | ALBION | Partially Flooded | Collingwood Street | #Name? | #Name? | 1 | 1 | #Name? |
| 1 | Forecast for 12/01/2011 1 2:00:00 PM | 11-Jan-11 | Forecast BOM | ALBION | Partially Flooded | Tate Street | #Name? | #Name? | 1 | 1 | #Name? |

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|---|--|-----------|-----------------|----------------|----------------------|----------------------|--------|--------|---|---|--------|
| 1 | Forecast for 12/01/2011 1 2:00:00 PM | 11-Jan-11 | Forecast BOM | BOWEN HILLS | Partially Flooded | Edmondston e Road | #Name? | #Name? | 1 | 1 | #Name? |
| 1 | Forecast for 12/01/2011 1 2:00:00 PM | 11-Jan-11 | Forecast BOM | NEWSTEAD | Partially Flooded | Durong Street | #Name? | #Name? | 1 | 1 | #Name? |
| 1 | Forecast for 12/01/2011 1 2:00:00 PM | 11-Jan-11 | Forecast BOM | WINDSOR | Partially Flooded | Allom Street | #Name? | #Name? | 1 | 1 | #Name? |
| 1 | Forecast for 12/01/2011 1 2:00:00 PM | 11-Jan-11 | Forecast BOM | WINDSOR | Partially Flooded | Cartwright Street | #Name? | #Name? | 1 | 1 | #Name? |
| 1 | Forecast for 12/01/2011 1 2:00:00 PM | 11-Jan-11 | Forecast BOM | WINDSOR | Partially Flooded | Downey Street | #Name? | #Name? | 1 | 1 | #Name? |
| 1 | Forecast for 12/01/2011 1 2:00:00 PM | 11-Jan-11 | Forecast BOM | WINDSOR | Partially Flooded | Grafton Street | #Name? | #Name? | 1 | 1 | #Name? |
| 1 | Forecast for 12/01/2011 1 2:00:00 PM | 11-Jan-11 | Forecast BOM | WINDSOR | Partially Flooded | Robert Lane | #Name? | #Name? | 1 | 1 | #Name? |
| 1 | Forecast for 12/01/2011 1 2:00:00 PM | 11-Jan-11 | Forecast BOM | BULIMBA | Partially Flooded | Barramul Street | #Name? | #Name? | 1 | 1 | #Name? |
| 1 | Forecast for 12/01/2011 1 2:00:00 PM | 11-Jan-11 | Forecast BOM | BULIMBA | Partially Flooded | Jamieson Street | #Name? | #Name? | 1 | 1 | #Name? |
| 1 | Forecast for 12/01/2011 1 2:00:00 PM | 11-Jan-11 | Forecast BOM | BRISBANE | Partially Flooded | Private Rd Qut | #Name? | #Name? | 1 | 1 | #Name? |
| 1 | Forecast for 12/01/2011 1 2:00:00 PM | 11-Jan-11 | Forecast BOM | CHELMER | Partially Flooded | Hargreaves Avenue | #Name? | #Name? | 1 | 1 | #Name? |

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|---|--|-----------|-----------------|------------------|----------------------|----------------------|--------|--------|---|---|--------|
| 1 | Forecast for 12/01/2011 2:00:00 PM | 11-Jan-11 | Forecast BOM | GRACEVILL E | Partially Flooded | Coleman Street | #Name? | #Name? | 1 | 1 | #Name? |
| 1 | Forecast for 12/01/2011 2:00:00 PM | 11-Jan-11 | Forecast BOM | GRACEVILL E | Partially Flooded | Graceville Avenue | #Name? | #Name? | 1 | 1 | #Name? |
| 1 | Forecast for 12/01/2011 2:00:00 PM | 11-Jan-11 | Forecast BOM | NEW FARM | Partially Flooded | Alford Street | #Name? | #Name? | 1 | 1 | #Name? |
| 1 | Forecast for 12/01/2011 2:00:00 PM | 11-Jan-11 | Forecast BOM | COORPARO O | Partially Flooded | Landsdowne Street | #Name? | #Name? | 1 | 1 | #Name? |
| 1 | Forecast for 12/01/2011 2:00:00 PM | 11-Jan-11 | Forecast BOM | COORPARO O | Partially Flooded | Morley Street | #Name? | #Name? | 1 | 1 | #Name? |
| 1 | Forecast for 12/01/2011 2:00:00 PM | 11-Jan-11 | Forecast BOM | EAST BRISBANE | Partially Flooded | Barker Street | #Name? | #Name? | 1 | 1 | #Name? |
| 1 | Forecast for 12/01/2011 2:00:00 PM | 11-Jan-11 | Forecast BOM | EAST BRISBANE | Partially Flooded | Chorlton Street | #Name? | #Name? | 1 | 1 | #Name? |
| 1 | Forecast for 12/01/2011 2:00:00 PM | 11-Jan-11 | Forecast BOM | GREENSLO PES | Partially Flooded | Constance Street | #Name? | #Name? | 1 | 1 | #Name? |
| 1 | Forecast for 12/01/2011 2:00:00 PM | 11-Jan-11 | Forecast BOM | NORMAN PARK | Partially Flooded | Adina Street | #Name? | #Name? | 1 | 1 | #Name? |
| 1 | Forecast for 12/01/2011 2:00:00 PM | 11-Jan-11 | Forecast BOM | NORMAN PARK | Partially Flooded | Waite Street | #Name? | #Name? | 1 | 1 | #Name? |
| 1 | Forecast for 12/01/2011 2:00:00 PM | 11-Jan-11 | Forecast BOM | FAIRFIELD | Flooded | Crutchley Street | #Name? | #Name? | 1 | 1 | #Name? |

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|---|--|--|-----------|-----------------|-----------|---------|--------------------------|--------|--------|---|---|--------|
| 1 | | Forecast for 12/01/2011 1 2:00:00 PM | 11-Jan-11 | Forecast BOM | FAIRFIELD | Flooded | Fairview Street | #Name? | #Name? | 1 | 1 | #Name? |
| 1 | | Forecast for 12/01/2011 1 2:00:00 PM | 11-Jan-11 | Forecast BOM | FAIRFIELD | Flooded | Glengregory Street | #Name? | #Name? | 1 | 1 | #Name? |
| 1 | | Forecast for 12/01/2011 1 2:00:00 PM | 11-Jan-11 | Forecast BOM | HEMMANT | Flooded | Aquarium Avenue | #Name? | #Name? | 1 | 1 | #Name? |
| 1 | | Forecast for 12/01/2011 1 2:00:00 PM | 11-Jan-11 | Forecast BOM | LYTTON | Flooded | Frank Milan Drive | #Name? | #Name? | 1 | 1 | #Name? |
| 1 | | Forecast for 12/01/2011 1 2:00:00 PM | 11-Jan-11 | Forecast BOM | PINKENBA | Flooded | School Road | #Name? | #Name? | 1 | 1 | #Name? |
| 1 | | Forecast for 12/01/2011 1 2:00:00 PM | 11-Jan-11 | Forecast BOM | TENNYSON | Flooded | Curzon Street | #Name? | #Name? | 1 | 1 | #Name? |
| 1 | | Forecast for 12/01/2011 1 2:00:00 PM | 11-Jan-11 | Forecast BOM | ST LUCIA | Flooded | Carmody Road | #Name? | #Name? | 1 | 1 | #Name? |
| 1 | | Forecast for 12/01/2011 1 2:00:00 PM | 11-Jan-11 | Forecast BOM | ST LUCIA | Flooded | Twelfth Avenue | #Name? | #Name? | 1 | 1 | #Name? |
| 1 | | Forecast for 12/01/2011 1 2:00:00 PM | 11-Jan-11 | Forecast BOM | WEST END | Flooded | Avebury Street | #Name? | #Name? | 1 | 1 | #Name? |
| 1 | | Forecast for 12/01/2011 1 2:00:00 PM | 11-Jan-11 | Forecast BOM | ALBION | Flooded | Kingsford Smith Drive | #Name? | #Name? | 1 | 1 | #Name? |
| 1 | | Forecast for 12/01/2011 1 2:00:00 PM | 11-Jan-11 | Forecast BOM | HAMILTON | Flooded | Cooksley Street | #Name? | #Name? | 1 | 1 | #Name? |

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|---|---|--|-----------|-----------------|----------------|---------|----------------------|--------|--------|---|---|--------|
| 1 | 1 | Forecast for 12/01/2011 2:00:00 PM | 11-Jan-11 | Forecast BOM | NEWSTEAD | Flooded | Byres Street | #Name? | #Name? | 1 | 1 | #Name? |
| 1 | 1 | Forecast for 12/01/2011 2:00:00 PM | 11-Jan-11 | Forecast BOM | WINDSOR | Flooded | Albany Street | #Name? | #Name? | 1 | 1 | #Name? |
| 1 | 1 | Forecast for 12/01/2011 2:00:00 PM | 11-Jan-11 | Forecast BOM | WINDSOR | Flooded | Bowen Street | #Name? | #Name? | 1 | 1 | #Name? |
| 1 | 1 | Forecast for 12/01/2011 2:00:00 PM | 11-Jan-11 | Forecast BOM | WINDSOR | Flooded | Cullen Street | #Name? | #Name? | 1 | 1 | #Name? |
| 1 | 1 | Forecast for 12/01/2011 2:00:00 PM | 11-Jan-11 | Forecast BOM | WINDSOR | Flooded | Edgar Street | #Name? | #Name? | 1 | 1 | #Name? |
| 1 | 1 | Forecast for 12/01/2011 2:00:00 PM | 11-Jan-11 | Forecast BOM | WINDSOR | Flooded | Edmund Street | #Name? | #Name? | 1 | 1 | #Name? |
| 1 | 1 | Forecast for 12/01/2011 2:00:00 PM | 11-Jan-11 | Forecast BOM | WINDSOR | Flooded | Federation Street | #Name? | #Name? | 1 | 1 | #Name? |
| 1 | 1 | Forecast for 12/01/2011 2:00:00 PM | 11-Jan-11 | Forecast BOM | WINDSOR | Flooded | Noble Street | #Name? | #Name? | 1 | 1 | #Name? |
| 1 | 1 | Forecast for 12/01/2011 2:00:00 PM | 11-Jan-11 | Forecast BOM | WINDSOR | Flooded | Somerset Street | #Name? | #Name? | 1 | 1 | #Name? |
| 1 | 1 | Forecast for 12/01/2011 2:00:00 PM | 11-Jan-11 | Forecast BOM | HAWTHORN E | Flooded | Lindsay Street | #Name? | #Name? | 1 | 1 | #Name? |
| 1 | 1 | Forecast for 12/01/2011 2:00:00 PM | 11-Jan-11 | Forecast BOM | GRACEVILL E | Flooded | White Street | #Name? | #Name? | 1 | 1 | #Name? |

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|---|--|-----------|-----------------|-------------------|---------|----------------------|--------|--------|---|---|--------|
| 1 | Forecast for 12/01/2011 2:00:00 PM | 11-Jan-11 | Forecast BOM | INDOOROO PILLY | Flooded | Aragon Street | #Name? | #Name? | 1 | 1 | #Name? |
| 1 | Forecast for 12/01/2011 2:00:00 PM | 11-Jan-11 | Forecast BOM | ST LUCIA | Flooded | Sisley Street | #Name? | #Name? | 1 | 1 | #Name? |
| 1 | Forecast for 12/01/2011 2:00:00 PM | 11-Jan-11 | Forecast BOM | WEST END | Flooded | Morry Street | #Name? | #Name? | 1 | 1 | #Name? |
| 1 | Forecast for 12/01/2011 2:00:00 PM | 11-Jan-11 | Forecast BOM | SHERWOOD | Flooded | Turner Street | #Name? | #Name? | 1 | 1 | #Name? |
| 1 | Forecast for 12/01/2011 2:00:00 PM | 11-Jan-11 | Forecast BOM | NEW FARM | Flooded | Welsby Street | #Name? | #Name? | 1 | 1 | #Name? |
| 1 | Forecast for 12/01/2011 2:00:00 PM | 11-Jan-11 | Forecast BOM | EAST BRISBANE | Flooded | Camberwell Street | #Name? | #Name? | 1 | 1 | #Name? |
| 1 | Forecast for 12/01/2011 2:00:00 PM | 11-Jan-11 | Forecast BOM | EAST BRISBANE | Flooded | Heath Street | #Name? | #Name? | 1 | 1 | #Name? |
| 1 | Forecast for 12/01/2011 2:00:00 PM | 11-Jan-11 | Forecast BOM | EAST BRISBANE | Flooded | Lerna Street | #Name? | #Name? | 1 | 1 | #Name? |
| 1 | Forecast for 12/01/2011 2:00:00 PM | 11-Jan-11 | Forecast BOM | EAST BRISBANE | Flooded | Longlands Street | #Name? | #Name? | 1 | 1 | #Name? |
| 1 | Forecast for 12/01/2011 2:00:00 PM | 11-Jan-11 | Forecast BOM | NORMAN PARK | Flooded | Gillan Street | #Name? | #Name? | 1 | 1 | #Name? |
| 1 | Forecast for 12/01/2011 2:00:00 PM | 11-Jan-11 | Forecast BOM | NORMAN PARK | Flooded | Norman Avenue | #Name? | #Name? | 1 | 1 | #Name? |

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|---|--|--|-----------|-----------------|-------------------|---------|-----------------------|--------|--------|---|---|--------|
| 1 | | Forecast for 12/01/2011 2:00:00 PM | 11-Jan-11 | Forecast BOM | WOOLLOON GABBA | Flooded | Albion Street | #Name? | #Name? | 1 | 1 | #Name? |
| 1 | | Forecast for 12/01/2011 2:00:00 PM | 11-Jan-11 | Forecast BOM | WOOLLOON GABBA | Flooded | Maynard Street | #Name? | #Name? | 1 | 1 | #Name? |
| 1 | | Forecast for 12/01/2011 2:00:00 PM | 11-Jan-11 | Forecast BOM | PINKENBA | Flooded | Bancroft Road | #Name? | #Name? | 1 | 1 | #Name? |
| 1 | | Forecast for 12/01/2011 2:00:00 PM | 11-Jan-11 | Forecast BOM | PINKENBA | Flooded | Esker Street | #Name? | #Name? | 1 | 1 | #Name? |
| 1 | | Forecast for 12/01/2011 2:00:00 PM | 11-Jan-11 | Forecast BOM | MILTON | Flooded | Crombie Street | #Name? | #Name? | 1 | 1 | #Name? |
| 1 | | Forecast for 12/01/2011 2:00:00 PM | 11-Jan-11 | Forecast BOM | MILTON | Flooded | McDougall Street | #Name? | #Name? | 1 | 1 | #Name? |
| 1 | | Forecast for 12/01/2011 2:00:00 PM | 11-Jan-11 | Forecast BOM | ANSTEAD | Flooded | Mount Crosby Road | #Name? | #Name? | 1 | 1 | #Name? |
| 1 | | Forecast for 12/01/2011 2:00:00 PM | 11-Jan-11 | Forecast BOM | SUMNER | Flooded | Clydesdale Place | #Name? | #Name? | 1 | 1 | #Name? |
| 1 | | Forecast for 12/01/2011 2:00:00 PM | 11-Jan-11 | Forecast BOM | GRACEVILL E | Flooded | Strickland Terrace | #Name? | #Name? | 1 | 1 | #Name? |
| 1 | | Forecast for 12/01/2011 2:00:00 PM | 11-Jan-11 | Forecast BOM | OXLEY | Flooded | Bannerman Street | #Name? | #Name? | 1 | 1 | #Name? |
| 1 | | Forecast for 12/01/2011 2:00:00 PM | 11-Jan-11 | Forecast BOM | OXLEY | Flooded | Willpowell Street | #Name? | #Name? | 1 | 1 | #Name? |

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|---|--|-----------|-----------------|-----------|---------|-----------------------|--------|--------|---|---|--------|
| 1 | Forecast for 12/01/2011 2:00:00 PM | 11-Jan-11 | Forecast BOM | ROCKLEA | Flooded | Blackdown Street | #Name? | #Name? | 1 | 1 | #Name? |
| 1 | Forecast for 12/01/2011 2:00:00 PM | 11-Jan-11 | Forecast BOM | RIVERVIEW | Flooded | Caroline Street | #Name? | #Name? | 1 | 1 | #Name? |
| 1 | Forecast for 12/01/2011 2:00:00 PM | 11-Jan-11 | Forecast BOM | TARINGA | Flooded | Alpha Street | #Name? | #Name? | 1 | 1 | #Name? |
| 1 | Forecast for 12/01/2011 2:00:00 PM | 11-Jan-11 | Forecast BOM | TARINGA | Flooded | Indooroopilly Road | #Name? | #Name? | 1 | 1 | #Name? |
| 1 | Forecast for 12/01/2011 2:00:00 PM | 11-Jan-11 | Forecast BOM | TARINGA | Flooded | Moore Street | #Name? | #Name? | 1 | 1 | #Name? |
| 1 | Forecast for 12/01/2011 2:00:00 PM | 11-Jan-11 | Forecast BOM | ST LUCIA | Flooded | Durham Street | #Name? | #Name? | 1 | 1 | #Name? |
| 1 | Forecast for 12/01/2011 2:00:00 PM | 11-Jan-11 | Forecast BOM | ALBION | Flooded | Beaumont Street | #Name? | #Name? | 1 | 1 | #Name? |
| 1 | Forecast for 12/01/2011 2:00:00 PM | 11-Jan-11 | Forecast BOM | ALBION | Flooded | Gartrell Street | #Name? | #Name? | 1 | 1 | #Name? |
| 1 | Forecast for 12/01/2011 2:00:00 PM | 11-Jan-11 | Forecast BOM | ALBION | Flooded | Sandgate Road | #Name? | #Name? | 1 | 1 | #Name? |
| 1 | Forecast for 12/01/2011 2:00:00 PM | 11-Jan-11 | Forecast BOM | ALBION | Flooded | Wallace Street | #Name? | #Name? | 1 | 1 | #Name? |
| 1 | Forecast for 12/01/2011 2:00:00 PM | 11-Jan-11 | Forecast BOM | NEWSTEAD | Flooded | Austin Street | #Name? | #Name? | 1 | 1 | #Name? |

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|---|--|-----------|-----------------|------------------|---------|--------------------|--------|--------|---|---|--------|
| 1 | Forecast for 12/01/2011 2:00:00 PM | 11-Jan-11 | Forecast BOM | NEWSTEAD | Flooded | Gordon Street | #Name? | #Name? | 1 | 1 | #Name? |
| 1 | Forecast for 12/01/2011 2:00:00 PM | 11-Jan-11 | Forecast BOM | NEWSTEAD | Flooded | Ross Street | #Name? | #Name? | 1 | 1 | #Name? |
| 1 | Forecast for 12/01/2011 2:00:00 PM | 11-Jan-11 | Forecast BOM | NEWSTEAD | Flooded | Wickham Grove | #Name? | #Name? | 1 | 1 | #Name? |
| 1 | Forecast for 12/01/2011 2:00:00 PM | 11-Jan-11 | Forecast BOM | WINDSOR | Flooded | Addison Street | #Name? | #Name? | 1 | 1 | #Name? |
| 1 | Forecast for 12/01/2011 2:00:00 PM | 11-Jan-11 | Forecast BOM | WINDSOR | Flooded | Maurice Street | #Name? | #Name? | 1 | 1 | #Name? |
| 1 | Forecast for 12/01/2011 2:00:00 PM | 11-Jan-11 | Forecast BOM | WINDSOR | Flooded | Nicholas Street | #Name? | #Name? | 1 | 1 | #Name? |
| 1 | Forecast for 12/01/2011 2:00:00 PM | 11-Jan-11 | Forecast BOM | WINDSOR | Flooded | Northey Street | #Name? | #Name? | 1 | 1 | #Name? |
| 1 | Forecast for 12/01/2011 2:00:00 PM | 11-Jan-11 | Forecast BOM | BULIMBA | Flooded | Smallman Street | #Name? | #Name? | 1 | 1 | #Name? |
| 1 | Forecast for 12/01/2011 2:00:00 PM | 11-Jan-11 | Forecast BOM | AUCHENFL OWER | Flooded | Milton Road | #Name? | #Name? | 1 | 1 | #Name? |
| 1 | Forecast for 12/01/2011 2:00:00 PM | 11-Jan-11 | Forecast BOM | WEST END | Flooded | Jane Street | #Name? | #Name? | 1 | 1 | #Name? |
| 1 | Forecast for 12/01/2011 2:00:00 PM | 11-Jan-11 | Forecast BOM | CHELMER | Flooded | Jarrott Street | #Name? | #Name? | 1 | 1 | #Name? |

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|---|--|-----------|-----------------|-------------------|---------|-----------------------|--------|--------|---|---|--------|
| 1 | Forecast for 12/01/2011 1 2:00:00 PM | 11-Jan-11 | Forecast BOM | CHELMER | Flooded | Rosebery Terrace | #Name? | #Name? | 1 | 1 | #Name? |
| 1 | Forecast for 12/01/2011 1 2:00:00 PM | 11-Jan-11 | Forecast BOM | NORMAN PARK | Flooded | Bodalla Street | #Name? | #Name? | 1 | 1 | #Name? |
| 1 | Forecast for 12/01/2011 1 2:00:00 PM | 11-Jan-11 | Forecast BOM | NORMAN PARK | Flooded | Hope Street | #Name? | #Name? | 1 | 1 | #Name? |
| 1 | Forecast for 12/01/2011 1 2:00:00 PM | 11-Jan-11 | Forecast BOM | WOOLLOON GABBA | Flooded | Churchill Street | #Name? | #Name? | 1 | 1 | #Name? |
| 1 | Forecast for 12/01/2011 1 2:00:00 PM | 11-Jan-11 | Forecast BOM | WOOLLOON GABBA | Flooded | Lotus Street | #Name? | #Name? | 1 | 1 | #Name? |
| 1 | Forecast for 12/01/2011 1 2:00:00 PM | 11-Jan-11 | Forecast BOM | NEWSTEAD | Flooded | Commercial Road | #Name? | #Name? | 1 | 1 | #Name? |
| 1 | Forecast for 12/01/2011 1 2:00:00 PM | 11-Jan-11 | Forecast BOM | CORINDA | Flooded | Teesdale Street | #Name? | #Name? | 1 | 1 | #Name? |
| 1 | Forecast for 12/01/2011 1 2:00:00 PM | 11-Jan-11 | Forecast BOM | PINKENBA | Flooded | Brand Road | #Name? | #Name? | 1 | 1 | #Name? |
| 1 | Forecast for 12/01/2011 1 2:00:00 PM | 11-Jan-11 | Forecast BOM | COOPERS PLAINS | Flooded | Deal Street | #Name? | #Name? | 1 | 1 | #Name? |
| 1 | Forecast for 12/01/2011 1 2:00:00 PM | 11-Jan-11 | Forecast BOM | GRACEVILL E | Flooded | Baronsfield Street | #Name? | #Name? | 1 | 1 | #Name? |
| 1 | Forecast for 12/01/2011 1 2:00:00 PM | 11-Jan-11 | Forecast BOM | OXLEY | Flooded | Kendall Street | #Name? | #Name? | 1 | 1 | #Name? |

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|---|--|-----------|-----------------|-------------------|---------|--------------------|--------|--------|---|---|--------|
| 1 | Forecast for 12/01/2011 1 2:00:00 PM | 11-Jan-11 | Forecast BOM | SOUTH BRISBANE | Flooded | Busway | #Name? | #Name? | 1 | 1 | #Name? |
| 1 | Forecast for 12/01/2011 1 2:00:00 PM | 11-Jan-11 | Forecast BOM | ST LUCIA | Flooded | Laurence Street | #Name? | #Name? | 1 | 1 | #Name? |
| 1 | Forecast for 12/01/2011 1 2:00:00 PM | 11-Jan-11 | Forecast BOM | WEST END | Flooded | Ryan Street | #Name? | #Name? | 1 | 1 | #Name? |
| 1 | Forecast for 12/01/2011 1 2:00:00 PM | 11-Jan-11 | Forecast BOM | ALBION | Flooded | Argyle Street | #Name? | #Name? | 1 | 1 | #Name? |
| 1 | Forecast for 12/01/2011 1 2:00:00 PM | 11-Jan-11 | Forecast BOM | ALBION | Flooded | Bogan Street | #Name? | #Name? | 1 | 1 | #Name? |
| 1 | Forecast for 12/01/2011 1 2:00:00 PM | 11-Jan-11 | Forecast BOM | ALBION | Flooded | Elliot Street | #Name? | #Name? | 1 | 1 | #Name? |
| 1 | Forecast for 12/01/2011 1 2:00:00 PM | 11-Jan-11 | Forecast BOM | ALBION | Flooded | Fox Street | #Name? | #Name? | 1 | 1 | #Name? |
| 1 | Forecast for 12/01/2011 1 2:00:00 PM | 11-Jan-11 | Forecast BOM | ALBION | Flooded | Immarna Street | #Name? | #Name? | 1 | 1 | #Name? |
| 1 | Forecast for 12/01/2011 1 2:00:00 PM | 11-Jan-11 | Forecast BOM | ALBION | Flooded | Jobson Street | #Name? | #Name? | 1 | 1 | #Name? |
| 1 | Forecast for 12/01/2011 1 2:00:00 PM | 11-Jan-11 | Forecast BOM | ALBION | Flooded | Pedder Street | #Name? | #Name? | 1 | 1 | #Name? |
| 1 | Forecast for 12/01/2011 1 2:00:00 PM | 11-Jan-11 | Forecast BOM | NEWSTEAD | Flooded | Creswell Street | #Name? | #Name? | 1 | 1 | #Name? |

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|---|--|-----------|-----------------|-------------------|---------|--------------------|--------|--------|---|---|--------|
| 1 | Forecast for 12/01/2011 1 2:00:00 PM | 11-Jan-11 | Forecast BOM | HAWTHORN E | Flooded | Malcolm Street | #Name? | #Name? | 1 | 1 | #Name? |
| 1 | Forecast for 12/01/2011 1 2:00:00 PM | 11-Jan-11 | Forecast BOM | REDBANK | Flooded | Monash Road | #Name? | #Name? | 1 | 1 | #Name? |
| 1 | Forecast for 12/01/2011 1 2:00:00 PM | 11-Jan-11 | Forecast BOM | PADDINGTO N | Flooded | Beck Street | #Name? | #Name? | 1 | 1 | #Name? |
| 1 | Forecast for 12/01/2011 1 2:00:00 PM | 11-Jan-11 | Forecast BOM | PADDINGTO N | Flooded | Fernberg Road | #Name? | #Name? | 1 | 1 | #Name? |
| 1 | Forecast for 12/01/2011 1 2:00:00 PM | 11-Jan-11 | Forecast BOM | YERONGA | Flooded | Orsova Road | #Name? | #Name? | 1 | 1 | #Name? |
| 1 | Forecast for 12/01/2011 1 2:00:00 PM | 11-Jan-11 | Forecast BOM | SOUTH BRISBANE | Flooded | Stanley Street | #Name? | #Name? | 1 | 1 | #Name? |
| 1 | Forecast for 12/01/2011 1 2:00:00 PM | 11-Jan-11 | Forecast BOM | COORPARO O | Flooded | Clarence Street | #Name? | #Name? | 1 | 1 | #Name? |
| 1 | Forecast for 12/01/2011 1 2:00:00 PM | 11-Jan-11 | Forecast BOM | GREENSLO PES | Flooded | Beata Street | #Name? | #Name? | 1 | 1 | #Name? |
| 1 | Forecast for 12/01/2011 1 2:00:00 PM | 11-Jan-11 | Forecast BOM | NORMAN PARK | Flooded | Milton Street | #Name? | #Name? | 1 | 1 | #Name? |
| 1 | Forecast for 12/01/2011 1 2:00:00 PM | 11-Jan-11 | Forecast BOM | WOOLLOON GABBA | Flooded | Line Street | #Name? | #Name? | 1 | 1 | #Name? |
| 1 | Forecast for 12/01/2011 1 2:00:00 PM | 11-Jan-11 | Forecast BOM | GOODNA | Flooded | Lowe Street | #Name? | #Name? | 1 | 1 | #Name? |

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|---|--|-----------|-----------------|--------------|---------|-------------------------|--------|--------|---|---|--------|
| 1 | Forecast for 12/01/2011 1 2:00:00 PM | 11-Jan-11 | Forecast BOM | BRISBANE | Flooded | Riverside Expressway | #Name? | #Name? | 1 | 1 | #Name? |
| 1 | Forecast for 12/01/2011 1 2:00:00 PM | 11-Jan-11 | Forecast BOM | TINGALPA | Flooded | Boundary Street | #Name? | #Name? | 1 | 1 | #Name? |
| 1 | Forecast for 12/01/2011 1 2:00:00 PM | 11-Jan-11 | Forecast BOM | YERONGA | Flooded | Eversley Terrace | #Name? | #Name? | 1 | 1 | #Name? |
| 1 | Forecast for 12/01/2011 1 2:00:00 PM | 11-Jan-11 | Forecast BOM | CORINDA | Flooded | Neata Street | #Name? | #Name? | 1 | 1 | #Name? |
| 1 | Forecast for 12/01/2011 1 2:00:00 PM | 11-Jan-11 | Forecast BOM | ROCKLEA | Flooded | Lillian Avenue | #Name? | #Name? | 1 | 1 | #Name? |
| 1 | Forecast for 12/01/2011 1 2:00:00 PM | 11-Jan-11 | Forecast BOM | ROCKLEA | Flooded | Randolph Street | #Name? | #Name? | 1 | 1 | #Name? |
| 1 | Forecast for 12/01/2011 1 2:00:00 PM | 11-Jan-11 | Forecast BOM | ROCKLEA | Flooded | Sperling Street | #Name? | #Name? | 1 | 1 | #Name? |
| 1 | Forecast for 12/01/2011 1 2:00:00 PM | 11-Jan-11 | Forecast BOM | SHERWOOD | Flooded | Central Avenue | #Name? | #Name? | 1 | 1 | #Name? |
| 1 | Forecast for 12/01/2011 1 2:00:00 PM | 11-Jan-11 | Forecast BOM | WEST END | Flooded | Carlow Street | #Name? | #Name? | 1 | 1 | #Name? |
| 1 | Forecast for 12/01/2011 1 2:00:00 PM | 11-Jan-11 | Forecast BOM | AUCHENFLOWER | Flooded | Park Avenue | #Name? | #Name? | 1 | 1 | #Name? |
| 1 | Forecast for 12/01/2011 1 2:00:00 PM | 11-Jan-11 | Forecast BOM | TOOWONG | Flooded | Sylvan Road | #Name? | #Name? | 1 | 1 | #Name? |

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|---|---|--|-----------|-----------------|--------------------|---------|---------------------|--------|--------|---|---|--------|
| 1 | 1 | Forecast for 12/01/2011 2:00:00 PM | 11-Jan-11 | Forecast BOM | ALBION | Flooded | Agnes Street | #Name? | #Name? | 1 | 1 | #Name? |
| 1 | 1 | Forecast for 12/01/2011 2:00:00 PM | 11-Jan-11 | Forecast BOM | ALBION | Flooded | Amy Street | #Name? | #Name? | 1 | 1 | #Name? |
| 1 | 1 | Forecast for 12/01/2011 2:00:00 PM | 11-Jan-11 | Forecast BOM | ALBION | Flooded | Nariel Street | #Name? | #Name? | 1 | 1 | #Name? |
| 1 | 1 | Forecast for 12/01/2011 2:00:00 PM | 11-Jan-11 | Forecast BOM | NEWSTEAD | Flooded | Waterloo Street | #Name? | #Name? | 1 | 1 | #Name? |
| 1 | 1 | Forecast for 12/01/2011 2:00:00 PM | 11-Jan-11 | Forecast BOM | HAWTHORN E | Flooded | Barton Road | #Name? | #Name? | 1 | 1 | #Name? |
| 1 | 1 | Forecast for 12/01/2011 2:00:00 PM | 11-Jan-11 | Forecast BOM | BULIMBA | Flooded | Taylor Street | #Name? | #Name? | 1 | 1 | #Name? |
| 1 | 1 | Forecast for 12/01/2011 2:00:00 PM | 11-Jan-11 | Forecast BOM | FIG TREE POCKET | Flooded | Needham Street | #Name? | #Name? | 1 | 1 | #Name? |
| 1 | 1 | Forecast for 12/01/2011 2:00:00 PM | 11-Jan-11 | Forecast BOM | GRACEVILL E | Flooded | Austral Avenue | #Name? | #Name? | 1 | 1 | #Name? |
| 1 | 1 | Forecast for 12/01/2011 2:00:00 PM | 11-Jan-11 | Forecast BOM | INDOOROO PILLY | Flooded | Rennies Road | #Name? | #Name? | 1 | 1 | #Name? |
| 1 | 1 | Forecast for 12/01/2011 2:00:00 PM | 11-Jan-11 | Forecast BOM | COORPARO O | Flooded | Salisbury Street | #Name? | #Name? | 1 | 1 | #Name? |
| 1 | 1 | Forecast for 12/01/2011 2:00:00 PM | 11-Jan-11 | Forecast BOM | EAST BRISBANE | Flooded | Ashfield Street | #Name? | #Name? | 1 | 1 | #Name? |

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|---|--|--|-----------|-----------------|-------------------|---------|---------------------|--------|--------|---|---|--------|
| 1 | | Forecast for 12/01/2011 1 2:00:00 PM | 11-Jan-11 | Forecast BOM | EAST BRISBANE | Flooded | Clarendon Street | #Name? | #Name? | 1 | 1 | #Name? |
| 1 | | Forecast for 12/01/2011 1 2:00:00 PM | 11-Jan-11 | Forecast BOM | NORMAN PARK | Flooded | Pope Street | #Name? | #Name? | 1 | 1 | #Name? |
| 1 | | Forecast for 12/01/2011 1 2:00:00 PM | 11-Jan-11 | Forecast BOM | YERONGA | Flooded | Oriana Crescent | #Name? | #Name? | 1 | 1 | #Name? |
| 1 | | Forecast for 12/01/2011 1 2:00:00 PM | 11-Jan-11 | Forecast BOM | WACOL | Flooded | Boyce Road | #Name? | #Name? | 1 | 1 | #Name? |
| 1 | | Forecast for 12/01/2011 1 2:00:00 PM | 11-Jan-11 | Forecast BOM | MILTON | Flooded | Heussler Terrace | #Name? | #Name? | 1 | 1 | #Name? |
| 1 | | Forecast for 12/01/2011 1 2:00:00 PM | 11-Jan-11 | Forecast BOM | MILTON | Flooded | Manning Street | #Name? | #Name? | 1 | 1 | #Name? |
| 1 | | Forecast for 12/01/2011 1 2:00:00 PM | 11-Jan-11 | Forecast BOM | MILTON | Flooded | Walsh Street | #Name? | #Name? | 1 | 1 | #Name? |
| 1 | | Forecast for 12/01/2011 1 2:00:00 PM | 11-Jan-11 | Forecast BOM | PINJARRA HILLS | Flooded | Moggill Road | #Name? | #Name? | 1 | 1 | #Name? |
| 1 | | Forecast for 12/01/2011 1 2:00:00 PM | 11-Jan-11 | Forecast BOM | YERONGA | Flooded | Park Road | #Name? | #Name? | 1 | 1 | #Name? |
| 1 | | Forecast for 12/01/2011 1 2:00:00 PM | 11-Jan-11 | Forecast BOM | CORINDA | Flooded | Denlven Street | #Name? | #Name? | 1 | 1 | #Name? |
| 1 | | Forecast for 12/01/2011 1 2:00:00 PM | 11-Jan-11 | Forecast BOM | CORINDA | Flooded | Penaton Street | #Name? | #Name? | 1 | 1 | #Name? |

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|---|--|-----------|-----------------|------------------|---------|-----------------------------------|--------|--------|---|---|--------|
| 1 | Forecast for 12/01/2011 1 2:00:00 PM | 11-Jan-11 | Forecast BOM | OXLEY | Flooded | Lawson Street | #Name? | #Name? | 1 | 1 | #Name? |
| 1 | Forecast for 12/01/2011 1 2:00:00 PM | 11-Jan-11 | Forecast BOM | ROCKLEA | Flooded | Goburra Street | #Name? | #Name? | 1 | 1 | #Name? |
| 1 | Forecast for 12/01/2011 1 2:00:00 PM | 11-Jan-11 | Forecast BOM | ROCKLEA | Flooded | Ipswich Motorway | #Name? | #Name? | 1 | 1 | #Name? |
| 1 | Forecast for 12/01/2011 1 2:00:00 PM | 11-Jan-11 | Forecast BOM | ST LUCIA | Flooded | Sir Fred Schonell Drive | #Name? | #Name? | 1 | 1 | #Name? |
| 1 | Forecast for 12/01/2011 1 2:00:00 PM | 11-Jan-11 | Forecast BOM | ST LUCIA | Flooded | Sir William Macgregor Drive | #Name? | #Name? | 1 | 1 | #Name? |
| 1 | Forecast for 12/01/2011 1 2:00:00 PM | 11-Jan-11 | Forecast BOM | ALBION | Flooded | Higgs Street | #Name? | #Name? | 1 | 1 | #Name? |
| 1 | Forecast for 12/01/2011 1 2:00:00 PM | 11-Jan-11 | Forecast BOM | ALBION | Flooded | Yulestar Street | #Name? | #Name? | 1 | 1 | #Name? |
| 1 | Forecast for 12/01/2011 1 2:00:00 PM | 11-Jan-11 | Forecast BOM | HAMILTON | Flooded | Amy Street | #Name? | #Name? | 1 | 1 | #Name? |
| 1 | Forecast for 12/01/2011 1 2:00:00 PM | 11-Jan-11 | Forecast BOM | WINDSOR | Flooded | Victoria Street | #Name? | #Name? | 1 | 1 | #Name? |
| 1 | Forecast for 12/01/2011 1 2:00:00 PM | 11-Jan-11 | Forecast BOM | AUCHENFL OWER | Flooded | Beard Street | #Name? | #Name? | 1 | 1 | #Name? |
| 1 | Forecast for 12/01/2011 1 2:00:00 PM | 11-Jan-11 | Forecast BOM | AUCHENFL OWER | Flooded | Dunmore Terrace | #Name? | #Name? | 1 | 1 | #Name? |

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|---|---|--|-----------|-----------------|------------------|---------|----------------------|--------|--------|---|---|--------|
| 1 | 1 | Forecast for 12/01/2011 2:00:00 PM | 11-Jan-11 | Forecast BOM | AUCHENFL OWER | Flooded | Kingsford Street | #Name? | #Name? | 1 | 1 | #Name? |
| 1 | 1 | Forecast for 12/01/2011 2:00:00 PM | 11-Jan-11 | Forecast BOM | MILTON | Flooded | Baroona Road | #Name? | #Name? | 1 | 1 | #Name? |
| 1 | 1 | Forecast for 12/01/2011 2:00:00 PM | 11-Jan-11 | Forecast BOM | CHELMER | Flooded | Leybourne Street | #Name? | #Name? | 1 | 1 | #Name? |
| 1 | 1 | Forecast for 12/01/2011 2:00:00 PM | 11-Jan-11 | Forecast BOM | CHELMER | Flooded | Richardson Street | #Name? | #Name? | 1 | 1 | #Name? |
| 1 | 1 | Forecast for 12/01/2011 2:00:00 PM | 11-Jan-11 | Forecast BOM | GRACEVILL E | Flooded | Acacia Avenue | #Name? | #Name? | 1 | 1 | #Name? |
| 1 | 1 | Forecast for 12/01/2011 2:00:00 PM | 11-Jan-11 | Forecast BOM | GRACEVILL E | Flooded | Cordalba Street | #Name? | #Name? | 1 | 1 | #Name? |
| 1 | 1 | Forecast for 12/01/2011 2:00:00 PM | 11-Jan-11 | Forecast BOM | GRACEVILL E | Flooded | Strong Avenue | #Name? | #Name? | 1 | 1 | #Name? |
| 1 | 1 | Forecast for 12/01/2011 2:00:00 PM | 11-Jan-11 | Forecast BOM | SHERWOOD | Flooded | Jolimont Street | #Name? | #Name? | 1 | 1 | #Name? |
| 1 | 1 | Forecast for 12/01/2011 2:00:00 PM | 11-Jan-11 | Forecast BOM | CORINDA | Flooded | Francis Street | #Name? | #Name? | 1 | 1 | #Name? |
| 1 | 1 | Forecast for 12/01/2011 2:00:00 PM | 11-Jan-11 | Forecast BOM | COORPARO O | Flooded | Cambridge Street | #Name? | #Name? | 1 | 1 | #Name? |
| 1 | 1 | Forecast for 12/01/2011 2:00:00 PM | 11-Jan-11 | Forecast BOM | NORMAN PARK | Flooded | Moreton Street | #Name? | #Name? | 1 | 1 | #Name? |

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|---|---|--|-----------|-----------------|--------------------|---------|---------------------------------|--------|--------|---|---|--------|
| 1 | 1 | Forecast for 12/01/2011 2:00:00 PM | 11-Jan-11 | Forecast BOM | FAIRFIELD | Flooded | Brisbane Corso | #Name? | #Name? | 1 | 1 | #Name? |
| 1 | 1 | Forecast for 12/01/2011 2:00:00 PM | 11-Jan-11 | Forecast BOM | FAIRFIELD | Flooded | Noble Street | #Name? | #Name? | 1 | 1 | #Name? |
| 1 | 1 | Forecast for 12/01/2011 2:00:00 PM | 11-Jan-11 | Forecast BOM | FAIRFIELD | Flooded | Railway Road | #Name? | #Name? | 1 | 1 | #Name? |
| 1 | 1 | Forecast for 12/01/2011 2:00:00 PM | 11-Jan-11 | Forecast BOM | FAIRFIELD | Flooded | Stimpson Street | #Name? | #Name? | 1 | 1 | #Name? |
| 1 | 1 | Forecast for 12/01/2011 2:00:00 PM | 11-Jan-11 | Forecast BOM | HEMMANT | Flooded | Hemmant And Tingalpa Road | #Name? | #Name? | 1 | 1 | #Name? |
| 1 | 1 | Forecast for 12/01/2011 2:00:00 PM | 11-Jan-11 | Forecast BOM | FAIRFIELD | Flooded | Forsyth Street | #Name? | #Name? | 1 | 1 | #Name? |
| 1 | 1 | Forecast for 12/01/2011 2:00:00 PM | 11-Jan-11 | Forecast BOM | YERONGA | Flooded | Hyde Road | #Name? | #Name? | 1 | 1 | #Name? |
| 1 | 1 | Forecast for 12/01/2011 2:00:00 PM | 11-Jan-11 | Forecast BOM | MOOROOKA | Flooded | Sherwood Road | #Name? | #Name? | 1 | 1 | #Name? |
| 1 | 1 | Forecast for 12/01/2011 2:00:00 PM | 11-Jan-11 | Forecast BOM | YEERONGPILLY | Flooded | Chale Street | #Name? | #Name? | 1 | 1 | #Name? |
| 1 | 1 | Forecast for 12/01/2011 2:00:00 PM | 11-Jan-11 | Forecast BOM | TOOWONG | Flooded | Mayne Street | #Name? | #Name? | 1 | 1 | #Name? |
| 1 | 1 | Forecast for 12/01/2011 2:00:00 PM | 11-Jan-11 | Forecast BOM | FIG TREE POCKET | Flooded | Cubberla Street | #Name? | #Name? | 1 | 1 | #Name? |

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|---|--|-----------|-----------------|------------------|---------|---------------------|--------|--------|---|---|--------|
| 1 | Forecast for 12/01/2011 2:00:00 PM | 11-Jan-11 | Forecast BOM | WEST END | Flooded | Bailey Street | #Name? | #Name? | 1 | 1 | #Name? |
| 1 | Forecast for 12/01/2011 2:00:00 PM | 11-Jan-11 | Forecast BOM | ALBION | Flooded | Hutcheson Street | #Name? | #Name? | 1 | 1 | #Name? |
| 1 | Forecast for 12/01/2011 2:00:00 PM | 11-Jan-11 | Forecast BOM | ALBION | Flooded | Park Street | #Name? | #Name? | 1 | 1 | #Name? |
| 1 | Forecast for 12/01/2011 2:00:00 PM | 11-Jan-11 | Forecast BOM | WINDSOR | Flooded | Bryden Street | #Name? | #Name? | 1 | 1 | #Name? |
| 1 | Forecast for 12/01/2011 2:00:00 PM | 11-Jan-11 | Forecast BOM | COORPARO O | Flooded | Rome Street | #Name? | #Name? | 1 | 1 | #Name? |
| 1 | Forecast for 12/01/2011 2:00:00 PM | 11-Jan-11 | Forecast BOM | COORPARO O | Flooded | Venice Street | #Name? | #Name? | 1 | 1 | #Name? |
| 1 | Forecast for 12/01/2011 2:00:00 PM | 11-Jan-11 | Forecast BOM | EAST BRISBANE | Flooded | Didswith Street | #Name? | #Name? | 1 | 1 | #Name? |
| 1 | Forecast for 12/01/2011 2:00:00 PM | 11-Jan-11 | Forecast BOM | EAST BRISBANE | Flooded | Walter Avenue | #Name? | #Name? | 1 | 1 | #Name? |
| 1 | Forecast for 12/01/2011 2:00:00 PM | 11-Jan-11 | Forecast BOM | NORMAN PARK | Flooded | Scott Street | #Name? | #Name? | 1 | 1 | #Name? |
| 1 | Forecast for 12/01/2011 2:00:00 PM | 11-Jan-11 | Forecast BOM | YERONGA | Flooded | Ormadale Road | #Name? | #Name? | 1 | 1 | #Name? |
| 1 | Forecast for 12/01/2011 2:00:00 PM | 11-Jan-11 | Forecast BOM | YERONGA | Flooded | Tecoma Lane | #Name? | #Name? | 1 | 1 | #Name? |

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|---|---|--|-----------|-----------------|--------------------|---------|----------------------|--------|--------|---|---|--------|
| 1 | 1 | Forecast for 12/01/2011 2:00:00 PM | 11-Jan-11 | Forecast BOM | FAIRFIELD | Flooded | Sydney Street | #Name? | #Name? | 1 | 1 | #Name? |
| 1 | 1 | Forecast for 12/01/2011 2:00:00 PM | 11-Jan-11 | Forecast BOM | BELLBOWRI E | Flooded | Moggill Road | #Name? | #Name? | 1 | 1 | #Name? |
| 1 | 1 | Forecast for 12/01/2011 2:00:00 PM | 11-Jan-11 | Forecast BOM | OXLEY | Flooded | Colwel Street | #Name? | #Name? | 1 | 1 | #Name? |
| 1 | 1 | Forecast for 12/01/2011 2:00:00 PM | 11-Jan-11 | Forecast BOM | OXLEY | Flooded | Englefield Road | #Name? | #Name? | 1 | 1 | #Name? |
| 1 | 1 | Forecast for 12/01/2011 2:00:00 PM | 11-Jan-11 | Forecast BOM | ST LUCIA | Flooded | Sandford Street | #Name? | #Name? | 1 | 1 | #Name? |
| 1 | 1 | Forecast for 12/01/2011 2:00:00 PM | 11-Jan-11 | Forecast BOM | CHELMER | Flooded | Chelmer Street | #Name? | #Name? | 1 | 1 | #Name? |
| 1 | 1 | Forecast for 12/01/2011 2:00:00 PM | 11-Jan-11 | Forecast BOM | AUCHENFL OWER | Flooded | McIlwraith Street | #Name? | #Name? | 1 | 1 | #Name? |
| 1 | 1 | Forecast for 12/01/2011 2:00:00 PM | 11-Jan-11 | Forecast BOM | TOOWONG | Flooded | Patrick Lane | #Name? | #Name? | 1 | 1 | #Name? |
| 1 | 1 | Forecast for 12/01/2011 2:00:00 PM | 11-Jan-11 | Forecast BOM | CORINDA | Flooded | Blackheath Road | #Name? | #Name? | 1 | 1 | #Name? |
| 1 | 1 | Forecast for 12/01/2011 2:00:00 PM | 11-Jan-11 | Forecast BOM | FIG TREE POCKET | Flooded | Thiesfield Street | #Name? | #Name? | 1 | 1 | #Name? |
| 1 | 1 | Forecast for 12/01/2011 2:00:00 PM | 11-Jan-11 | Forecast BOM | YEERONGPI LLY | Flooded | Ortive Street | #Name? | #Name? | 1 | 1 | #Name? |

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|---|---|--|-----------|-----------------|-------------------|---------|---------------------|--------|--------|---|---|--------|
| 1 | 1 | Forecast for 12/01/2011 2:00:00 PM | 11-Jan-11 | Forecast BOM | GRACEVILL E | Flooded | Chanter Street | #Name? | #Name? | 1 | 1 | #Name? |
| 1 | 1 | Forecast for 12/01/2011 2:00:00 PM | 11-Jan-11 | Forecast BOM | INDOOROO PILLY | Flooded | Market Street | #Name? | #Name? | 1 | 1 | #Name? |
| 1 | 1 | Forecast for 12/01/2011 2:00:00 PM | 11-Jan-11 | Forecast BOM | INDOOROO PILLY | Flooded | Twigg Street | #Name? | #Name? | 1 | 1 | #Name? |
| 1 | 1 | Forecast for 12/01/2011 2:00:00 PM | 11-Jan-11 | Forecast BOM | WEST END | Flooded | Orleigh Street | #Name? | #Name? | 1 | 1 | #Name? |
| 1 | 1 | Forecast for 12/01/2011 2:00:00 PM | 11-Jan-11 | Forecast BOM | NORMAN PARK | Flooded | Donaldson Street | #Name? | #Name? | 1 | 1 | #Name? |
| 1 | 1 | Forecast for 12/01/2011 2:00:00 PM | 11-Jan-11 | Forecast BOM | YERONGA | Flooded | Diane Street | #Name? | #Name? | 1 | 1 | #Name? |
| 1 | 1 | Forecast for 12/01/2011 2:00:00 PM | 11-Jan-11 | Forecast BOM | FAIRFIELD | Flooded | Newcastle Street | #Name? | #Name? | 1 | 1 | #Name? |
| 1 | 1 | Forecast for 12/01/2011 2:00:00 PM | 11-Jan-11 | Forecast BOM | ROCKLEA | Flooded | Galah Street | #Name? | #Name? | 1 | 1 | #Name? |
| 1 | 1 | Forecast for 12/01/2011 2:00:00 PM | 11-Jan-11 | Forecast BOM | SHERWOOD | Flooded | Johnstone Street | #Name? | #Name? | 1 | 1 | #Name? |
| 1 | 1 | Forecast for 12/01/2011 2:00:00 PM | 11-Jan-11 | Forecast BOM | SHERWOOD | Flooded | Sherwood Road | #Name? | #Name? | 1 | 1 | #Name? |
| 1 | 1 | Forecast for 12/01/2011 2:00:00 PM | 11-Jan-11 | Forecast BOM | ST LUCIA | Flooded | Austral Street | #Name? | #Name? | 1 | 1 | #Name? |

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|---|---|--|-----------|-----------------|-------------------|---------|---------------------|--------|--------|---|---|--------|
| 1 | 1 | Forecast for 12/01/2011 2:00:00 PM | 11-Jan-11 | Forecast BOM | ST LUCIA | Flooded | Warren Street | #Name? | #Name? | 1 | 1 | #Name? |
| 1 | 1 | Forecast for 12/01/2011 2:00:00 PM | 11-Jan-11 | Forecast BOM | WEST END | Flooded | Hoogley Street | #Name? | #Name? | 1 | 1 | #Name? |
| 1 | 1 | Forecast for 12/01/2011 2:00:00 PM | 11-Jan-11 | Forecast BOM | AUCHENFL OWER | Flooded | Land Street | #Name? | #Name? | 1 | 1 | #Name? |
| 1 | 1 | Forecast for 12/01/2011 2:00:00 PM | 11-Jan-11 | Forecast BOM | AUCHENFL OWER | Flooded | Aldridge Street | #Name? | #Name? | 1 | 1 | #Name? |
| 1 | 1 | Forecast for 12/01/2011 2:00:00 PM | 11-Jan-11 | Forecast BOM | AUCHENFL OWER | Flooded | Fortitude Street | #Name? | #Name? | 1 | 1 | #Name? |
| 1 | 1 | Forecast for 12/01/2011 2:00:00 PM | 11-Jan-11 | Forecast BOM | MILTON | Flooded | Bayswater Street | #Name? | #Name? | 1 | 1 | #Name? |
| 1 | 1 | Forecast for 12/01/2011 2:00:00 PM | 11-Jan-11 | Forecast BOM | GRACEVILL E | Flooded | Waratah Avenue | #Name? | #Name? | 1 | 1 | #Name? |
| 1 | 1 | Forecast for 12/01/2011 2:00:00 PM | 11-Jan-11 | Forecast BOM | INDOOROO PILLY | Flooded | Spring Street | #Name? | #Name? | 1 | 1 | #Name? |
| 1 | 1 | Forecast for 12/01/2011 2:00:00 PM | 11-Jan-11 | Forecast BOM | EAST BRISBANE | Flooded | Hilton Street | #Name? | #Name? | 1 | 1 | #Name? |
| 1 | 1 | Forecast for 12/01/2011 2:00:00 PM | 11-Jan-11 | Forecast BOM | GAILES | Flooded | Ipswich Motorway | #Name? | #Name? | 1 | 1 | #Name? |
| 1 | 1 | Forecast for 12/01/2011 2:00:00 PM | 11-Jan-11 | Forecast BOM | MILTON | Flooded | Finchley Street | #Name? | #Name? | 1 | 1 | #Name? |

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|---|--|-----------|-----------------|----------------|---------|----------------------|--------|--------|---|---|--------|
| 1 | Forecast for 12/01/2011 1 2:00:00 PM | 11-Jan-11 | Forecast BOM | ROCKLEA | Flooded | Golf Links Road | #Name? | #Name? | 1 | 1 | #Name? |
| 1 | Forecast for 12/01/2011 1 2:00:00 PM | 11-Jan-11 | Forecast BOM | ROCKLEA | Flooded | Leeds Street | #Name? | #Name? | 1 | 1 | #Name? |
| 1 | Forecast for 12/01/2011 1 2:00:00 PM | 11-Jan-11 | Forecast BOM | REDBANK | Flooded | Plain Street | #Name? | #Name? | 1 | 1 | #Name? |
| 1 | Forecast for 12/01/2011 1 2:00:00 PM | 11-Jan-11 | Forecast BOM | BOWEN HILLS | Flooded | Inner City Bypass | #Name? | #Name? | 1 | 1 | #Name? |
| 1 | Forecast for 12/01/2011 1 2:00:00 PM | 11-Jan-11 | Forecast BOM | ST LUCIA | Flooded | Coleridge Street | #Name? | #Name? | 1 | 1 | #Name? |
| 1 | Forecast for 12/01/2011 1 2:00:00 PM | 11-Jan-11 | Forecast BOM | ST LUCIA | Flooded | Glasshouse Road | #Name? | #Name? | 1 | 1 | #Name? |
| 1 | Forecast for 12/01/2011 1 2:00:00 PM | 11-Jan-11 | Forecast BOM | ST LUCIA | Flooded | Underhill Street | #Name? | #Name? | 1 | 1 | #Name? |
| 1 | Forecast for 12/01/2011 1 2:00:00 PM | 11-Jan-11 | Forecast BOM | ST LUCIA | Flooded | Walcott Street | #Name? | #Name? | 1 | 1 | #Name? |
| 1 | Forecast for 12/01/2011 1 2:00:00 PM | 11-Jan-11 | Forecast BOM | BULIMBA | Flooded | Oxford Street | #Name? | #Name? | 1 | 1 | #Name? |
| 1 | Forecast for 12/01/2011 1 2:00:00 PM | 11-Jan-11 | Forecast BOM | FAIRFIELD | Flooded | Allamanda Street | #Name? | #Name? | 1 | 1 | #Name? |
| 1 | Forecast for 12/01/2011 1 2:00:00 PM | 11-Jan-11 | Forecast BOM | ROCKLEA | Flooded | Pegg Road | #Name? | #Name? | 1 | 1 | #Name? |

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|---|---|--|-----------|-----------------|-----------------------------|---------|---------------------|--------|--------|---|---|--------|
| 1 | 1 | Forecast for 12/01/2011 2:00:00 PM | 11-Jan-11 | Forecast BOM | ROCKLEA | Flooded | Salisbury Street | #Name? | #Name? | 1 | 1 | #Name? |
| 1 | 1 | Forecast for 12/01/2011 2:00:00 PM | 11-Jan-11 | Forecast BOM | TOOWONG | Flooded | Josling Street | #Name? | #Name? | 1 | 1 | #Name? |
| 1 | 1 | Forecast for 12/01/2011 2:00:00 PM | 11-Jan-11 | Forecast BOM | FIG TREE POCKET | Flooded | Ramada Place | #Name? | #Name? | 1 | 1 | #Name? |
| 1 | 1 | Forecast for 12/01/2011 2:00:00 PM | 11-Jan-11 | Forecast BOM | WEST END | Flooded | Montague Road | #Name? | #Name? | 1 | 1 | #Name? |
| 1 | 1 | Forecast for 12/01/2011 2:00:00 PM | 11-Jan-11 | Forecast BOM | ROCKLEA | Flooded | Darnley Street | #Name? | #Name? | 1 | 1 | #Name? |
| 1 | 1 | Forecast for 12/01/2011 2:00:00 PM | 11-Jan-11 | Forecast BOM | SEVENTEE N MILE ROCKS | Flooded | Sinnamon Road | #Name? | #Name? | 1 | 1 | #Name? |
| 1 | 1 | Forecast for 12/01/2011 2:00:00 PM | 11-Jan-11 | Forecast BOM | COORPARO O | Flooded | Deshon Street | #Name? | #Name? | 1 | 1 | #Name? |
| 1 | 1 | Forecast for 12/01/2011 2:00:00 PM | 11-Jan-11 | Forecast BOM | FAIRFIELD | Flooded | Ashby Street | #Name? | #Name? | 1 | 1 | #Name? |
| 1 | 1 | Forecast for 12/01/2011 2:00:00 PM | 11-Jan-11 | Forecast BOM | PINKENBA | Flooded | Marine Drive | #Name? | #Name? | 1 | 1 | #Name? |
| 1 | 1 | Forecast for 12/01/2011 2:00:00 PM | 11-Jan-11 | Forecast BOM | MILTON | Flooded | Paten Street | #Name? | #Name? | 1 | 1 | #Name? |
| 1 | 1 | Forecast for 12/01/2011 2:00:00 PM | 11-Jan-11 | Forecast BOM | YERONGA | Flooded | Fairfield Road | #Name? | #Name? | 1 | 1 | #Name? |

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|---|--|-----------|-----------------|--------------------|---------|--------------------------------|--------|--------|---|---|--------|
| 1 | Forecast for 12/01/2011 1 2:00:00 PM | 11-Jan-11 | Forecast BOM | YERONGA | Flooded | Venner Road | #Name? | #Name? | 1 | 1 | #Name? |
| 1 | Forecast for 12/01/2011 1 2:00:00 PM | 11-Jan-11 | Forecast BOM | ROCKLEA | Flooded | Tramore Street | #Name? | #Name? | 1 | 1 | #Name? |
| 1 | Forecast for 12/01/2011 1 2:00:00 PM | 11-Jan-11 | Forecast BOM | SHERWOOD | Flooded | Strickland Terrace | #Name? | #Name? | 1 | 1 | #Name? |
| 1 | Forecast for 12/01/2011 1 2:00:00 PM | 11-Jan-11 | Forecast BOM | TOOWONG | Flooded | Land Street | #Name? | #Name? | 1 | 1 | #Name? |
| 1 | Forecast for 12/01/2011 1 2:00:00 PM | 11-Jan-11 | Forecast BOM | JINDALEE | Flooded | Centenary Highway access | #Name? | #Name? | 1 | 1 | #Name? |
| 1 | Forecast for 12/01/2011 1 2:00:00 PM | 11-Jan-11 | Forecast BOM | FIG TREE POCKET | Flooded | Aminga Street | #Name? | #Name? | 1 | 1 | #Name? |
| 1 | Forecast for 12/01/2011 1 2:00:00 PM | 11-Jan-11 | Forecast BOM | AUCHENFLOWER | Flooded | Cue Street | #Name? | #Name? | 1 | 1 | #Name? |
| 1 | Forecast for 12/01/2011 1 2:00:00 PM | 11-Jan-11 | Forecast BOM | MILTON | Flooded | Haig Road | #Name? | #Name? | 1 | 1 | #Name? |
| 1 | Forecast for 12/01/2011 1 2:00:00 PM | 11-Jan-11 | Forecast BOM | MILTON | Flooded | Lucy Street | #Name? | #Name? | 1 | 1 | #Name? |
| 1 | Forecast for 12/01/2011 1 2:00:00 PM | 11-Jan-11 | Forecast BOM | SOUTH BRISBANE | Flooded | Riverside Drive | #Name? | #Name? | 1 | 1 | #Name? |
| 1 | Forecast for 12/01/2011 1 2:00:00 PM | 11-Jan-11 | Forecast BOM | CHELMER | Flooded | Hanlan Street | #Name? | #Name? | 1 | 1 | #Name? |

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|---|--|-----------|-----------------|--------------------|---------|------------------------|--------|--------|---|---|--------|
| 1 | Forecast for 12/01/2011 1 2:00:00 PM | 11-Jan-11 | Forecast BOM | INDOOROO PILLY | Flooded | Radnor Street | #Name? | #Name? | 1 | 1 | #Name? |
| 1 | Forecast for 12/01/2011 1 2:00:00 PM | 11-Jan-11 | Forecast BOM | FAIRFIELD | Flooded | Fairfield Road | #Name? | #Name? | 1 | 1 | #Name? |
| 1 | Forecast for 12/01/2011 1 2:00:00 PM | 11-Jan-11 | Forecast BOM | GOODNA | Flooded | Lower Albert Street | #Name? | #Name? | 1 | 1 | #Name? |
| 1 | Forecast for 12/01/2011 1 2:00:00 PM | 11-Jan-11 | Forecast BOM | MILTON | Flooded | Parkview Street | #Name? | #Name? | 1 | 1 | #Name? |
| 1 | Forecast for 12/01/2011 1 2:00:00 PM | 11-Jan-11 | Forecast BOM | ROCKLEA | Flooded | Elkedra Avenue | #Name? | #Name? | 1 | 1 | #Name? |
| 1 | Forecast for 12/01/2011 1 2:00:00 PM | 11-Jan-11 | Forecast BOM | FIG TREE POCKET | Flooded | Jesmond Road | #Name? | #Name? | 1 | 1 | #Name? |
| 1 | Forecast for 12/01/2011 1 2:00:00 PM | 11-Jan-11 | Forecast BOM | MILTON | Flooded | Douglas Street | #Name? | #Name? | 1 | 1 | #Name? |
| 1 | Forecast for 12/01/2011 1 2:00:00 PM | 11-Jan-11 | Forecast BOM | FAIRFIELD | Flooded | Victoria Street | #Name? | #Name? | 1 | 1 | #Name? |
| 1 | Forecast for 12/01/2011 1 2:00:00 PM | 11-Jan-11 | Forecast BOM | MILTON | Flooded | Castlemaine Street | #Name? | #Name? | 1 | 1 | #Name? |
| 1 | Forecast for 12/01/2011 1 2:00:00 PM | 11-Jan-11 | Forecast BOM | MILTON | Flooded | Cordova Street | #Name? | #Name? | 1 | 1 | #Name? |
| 1 | Forecast for 12/01/2011 1 2:00:00 PM | 11-Jan-11 | Forecast BOM | MILTON | Flooded | Granzella Street | #Name? | #Name? | 1 | 1 | #Name? |

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|---|---|--|-----------|-----------------|--------------|---------|-----------------------|--------|--------|---|---|--------|
| 1 | 1 | Forecast for 12/01/2011 2:00:00 PM | 11-Jan-11 | Forecast BOM | GOODNA | Flooded | Lower Cross Street | #Name? | #Name? | 1 | 1 | #Name? |
| 1 | 1 | Forecast for 12/01/2011 2:00:00 PM | 11-Jan-11 | Forecast BOM | FAIRFIELD | Flooded | Turner Avenue | #Name? | #Name? | 1 | 1 | #Name? |
| 1 | 1 | Forecast for 12/01/2011 2:00:00 PM | 11-Jan-11 | Forecast BOM | OXLEY | Flooded | Blunder Road | #Name? | #Name? | 1 | 1 | #Name? |
| 1 | 1 | Forecast for 12/01/2011 2:00:00 PM | 11-Jan-11 | Forecast BOM | OXLEY | Flooded | Boundary Road | #Name? | #Name? | 1 | 1 | #Name? |
| 1 | 1 | Forecast for 12/01/2011 2:00:00 PM | 11-Jan-11 | Forecast BOM | OXLEY | Flooded | Oxley Station Road | #Name? | #Name? | 1 | 1 | #Name? |
| 1 | 1 | Forecast for 12/01/2011 2:00:00 PM | 11-Jan-11 | Forecast BOM | ROCKLEA | Flooded | Beaudesert Road | #Name? | #Name? | 1 | 1 | #Name? |
| 1 | 1 | Forecast for 12/01/2011 2:00:00 PM | 11-Jan-11 | Forecast BOM | ROCKLEA | Flooded | Freney Street | #Name? | #Name? | 1 | 1 | #Name? |
| 1 | 1 | Forecast for 12/01/2011 2:00:00 PM | 11-Jan-11 | Forecast BOM | SHERWOOD | Flooded | Mcculla Street | #Name? | #Name? | 1 | 1 | #Name? |
| 1 | 1 | Forecast for 12/01/2011 2:00:00 PM | 11-Jan-11 | Forecast BOM | YERONGA | Flooded | Esplanade | #Name? | #Name? | 1 | 1 | #Name? |
| 1 | 1 | Forecast for 12/01/2011 2:00:00 PM | 11-Jan-11 | Forecast BOM | AUCHENFLOWER | Flooded | Eagle Terrace | #Name? | #Name? | 1 | 1 | #Name? |
| 1 | 1 | Forecast for 12/01/2011 2:00:00 PM | 11-Jan-11 | Forecast BOM | AUCHENFLOWER | Flooded | Lang Parade | #Name? | #Name? | 1 | 1 | #Name? |

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|---|--|--|-----------|-----------------|------------------|---------|-------------------------|--------|--------|---|---|--------|
| 1 | | Forecast for 12/01/2011 1 2:00:00 PM | 11-Jan-11 | Forecast BOM | GRACEVILL E | Flooded | Allora Street | #Name? | #Name? | 1 | 1 | #Name? |
| 1 | | Forecast for 12/01/2011 1 2:00:00 PM | 11-Jan-11 | Forecast BOM | GRACEVILL E | Flooded | Haldane Street | #Name? | #Name? | 1 | 1 | #Name? |
| 1 | | Forecast for 12/01/2011 1 2:00:00 PM | 11-Jan-11 | Forecast BOM | HEMMANT | Flooded | Gosport Street | #Name? | #Name? | 1 | 1 | #Name? |
| 1 | | Forecast for 12/01/2011 1 2:00:00 PM | 11-Jan-11 | Forecast BOM | MILTON | Flooded | Black Street | #Name? | #Name? | 1 | 1 | #Name? |
| 1 | | Forecast for 12/01/2011 1 2:00:00 PM | 11-Jan-11 | Forecast BOM | MILTON | Flooded | Chippendall Street | #Name? | #Name? | 1 | 1 | #Name? |
| 1 | | Forecast for 12/01/2011 1 2:00:00 PM | 11-Jan-11 | Forecast BOM | FAIRFIELD | Flooded | Venner Road | #Name? | #Name? | 1 | 1 | #Name? |
| 1 | | Forecast for 12/01/2011 1 2:00:00 PM | 11-Jan-11 | Forecast BOM | OXLEY | Flooded | Lincoln Street | #Name? | #Name? | 1 | 1 | #Name? |
| 1 | | Forecast for 12/01/2011 1 2:00:00 PM | 11-Jan-11 | Forecast BOM | ROCKLEA | Flooded | Gilmour Place | #Name? | #Name? | 1 | 1 | #Name? |
| 1 | | Forecast for 12/01/2011 1 2:00:00 PM | 11-Jan-11 | Forecast BOM | AUCHENFL OWER | Flooded | Auchenflower Terrace | #Name? | #Name? | 1 | 1 | #Name? |
| 1 | | Forecast for 12/01/2011 1 2:00:00 PM | 11-Jan-11 | Forecast BOM | AUCHENFL OWER | Flooded | Dixon Street | #Name? | #Name? | 1 | 1 | #Name? |
| 1 | | Forecast for 12/01/2011 1 2:00:00 PM | 11-Jan-11 | Forecast BOM | AUCHENFL OWER | Flooded | Patrick Lane | #Name? | #Name? | 1 | 1 | #Name? |

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|---|--|-----------|-----------------|--------------------|---------|---------------------|--------|--------|---|---|--------|
| 1 | Forecast for 12/01/2011 2:00:00 PM | 11-Jan-11 | Forecast BOM | WEST END | Flooded | Kurilpa Street | #Name? | #Name? | 1 | 1 | #Name? |
| 1 | Forecast for 12/01/2011 2:00:00 PM | 11-Jan-11 | Forecast BOM | WEST END | Flooded | Victoria Street | #Name? | #Name? | 1 | 1 | #Name? |
| 1 | Forecast for 12/01/2011 2:00:00 PM | 11-Jan-11 | Forecast BOM | FIG TREE POCKET | Flooded | Ningana Street | #Name? | #Name? | 1 | 1 | #Name? |
| 1 | Forecast for 12/01/2011 2:00:00 PM | 11-Jan-11 | Forecast BOM | AUCHENFL OWER | Flooded | Macintosh Street | #Name? | #Name? | 1 | 1 | #Name? |
| 1 | Forecast for 12/01/2011 2:00:00 PM | 11-Jan-11 | Forecast BOM | AUCHENFL OWER | Flooded | Vincent Street | #Name? | #Name? | 1 | 1 | #Name? |
| 1 | Forecast for 12/01/2011 2:00:00 PM | 11-Jan-11 | Forecast BOM | MILTON | Flooded | Frew Street | #Name? | #Name? | 1 | 1 | #Name? |
| 1 | Forecast for 12/01/2011 2:00:00 PM | 11-Jan-11 | Forecast BOM | NORMAN PARK | Flooded | Wendell Street | #Name? | #Name? | 1 | 1 | #Name? |
| 1 | Forecast for 12/01/2011 2:00:00 PM | 11-Jan-11 | Forecast BOM | GOODNA | Flooded | Ipswich Motorway | #Name? | #Name? | 1 | 1 | #Name? |
| 1 | Forecast for 12/01/2011 2:00:00 PM | 11-Jan-11 | Forecast BOM | WACOL | Flooded | Wolston Road | #Name? | #Name? | 1 | 1 | #Name? |
| 1 | Forecast for 12/01/2011 2:00:00 PM | 11-Jan-11 | Forecast BOM | COOPERS PLAINS | Flooded | Musgrave Road | #Name? | #Name? | 1 | 1 | #Name? |
| 1 | Forecast for 12/01/2011 2:00:00 PM | 11-Jan-11 | Forecast BOM | MILTON | Flooded | Camford Street | #Name? | #Name? | 1 | 1 | #Name? |

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|---|---|--|-----------|-----------------|--------------|---------|----------------------|--------|--------|---|---|--------|
| 1 | 1 | Forecast for 12/01/2011 2:00:00 PM | 11-Jan-11 | Forecast BOM | FAIRFIELD | Flooded | Home Street | #Name? | #Name? | 1 | 1 | #Name? |
| 1 | 1 | Forecast for 12/01/2011 2:00:00 PM | 11-Jan-11 | Forecast BOM | WEST END | Flooded | Riverside Drive | #Name? | #Name? | 1 | 1 | #Name? |
| 1 | 1 | Forecast for 12/01/2011 2:00:00 PM | 11-Jan-11 | Forecast BOM | OXLEY | Flooded | Gladstone Street | #Name? | #Name? | 1 | 1 | #Name? |
| 1 | 1 | Forecast for 12/01/2011 2:00:00 PM | 11-Jan-11 | Forecast BOM | ROCKLEA | Flooded | Brooke Street | #Name? | #Name? | 1 | 1 | #Name? |
| 1 | 1 | Forecast for 12/01/2011 2:00:00 PM | 11-Jan-11 | Forecast BOM | ROCKLEA | Flooded | Macbarry Place | #Name? | #Name? | 1 | 1 | #Name? |
| 1 | 1 | Forecast for 12/01/2011 2:00:00 PM | 11-Jan-11 | Forecast BOM | YEERONGPILLY | Flooded | Moolabin Crescent | #Name? | #Name? | 1 | 1 | #Name? |
| 1 | 1 | Forecast for 12/01/2011 2:00:00 PM | 11-Jan-11 | Forecast BOM | AUCHENFLOWER | Flooded | Park Lane | #Name? | #Name? | 1 | 1 | #Name? |
| 1 | 1 | Forecast for 12/01/2011 2:00:00 PM | 11-Jan-11 | Forecast BOM | AUCHENFLOWER | Flooded | Roy Street | #Name? | #Name? | 1 | 1 | #Name? |
| 1 | 1 | Forecast for 12/01/2011 2:00:00 PM | 11-Jan-11 | Forecast BOM | MILTON | Flooded | Eagle Terrace | #Name? | #Name? | 1 | 1 | #Name? |
| 1 | 1 | Forecast for 12/01/2011 2:00:00 PM | 11-Jan-11 | Forecast BOM | MILTON | Flooded | Kilroe Street | #Name? | #Name? | 1 | 1 | #Name? |
| 1 | 1 | Forecast for 12/01/2011 2:00:00 PM | 11-Jan-11 | Forecast BOM | MILTON | Flooded | Milton Road | #Name? | #Name? | 1 | 1 | #Name? |

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|---|--|--|-----------|-----------------|------------------|---------|------------------------------------|--------|--------|---|---|--------|
| 1 | | Forecast for 12/01/2011 1 2:00:00 PM | 11-Jan-11 | Forecast BOM | MILTON | Flooded | Roy Street | #Name? | #Name? | 1 | 1 | #Name? |
| 1 | | Forecast for 12/01/2011 1 2:00:00 PM | 11-Jan-11 | Forecast BOM | YERONGA | Flooded | Ortive Street | #Name? | #Name? | 1 | 1 | #Name? |
| 1 | | Forecast for 12/01/2011 1 2:00:00 PM | 11-Jan-11 | Forecast BOM | SUMNER | Flooded | Wacol Station Road | #Name? | #Name? | 1 | 1 | #Name? |
| 1 | | Forecast for 12/01/2011 1 2:00:00 PM | 11-Jan-11 | Forecast BOM | OXLEY | Flooded | Ipswich Motorway access road | #Name? | #Name? | 1 | 1 | #Name? |
| 1 | | Forecast for 12/01/2011 1 2:00:00 PM | 11-Jan-11 | Forecast BOM | ROCKLEA | Flooded | Bale Street | #Name? | #Name? | 1 | 1 | #Name? |
| 1 | | Forecast for 12/01/2011 1 2:00:00 PM | 11-Jan-11 | Forecast BOM | ROCKLEA | Flooded | Colvin Street | #Name? | #Name? | 1 | 1 | #Name? |
| 1 | | Forecast for 12/01/2011 1 2:00:00 PM | 11-Jan-11 | Forecast BOM | ROCKLEA | Flooded | Corella Street | #Name? | #Name? | 1 | 1 | #Name? |
| 1 | | Forecast for 12/01/2011 1 2:00:00 PM | 11-Jan-11 | Forecast BOM | TARINGA | Flooded | Heroes Avenue | #Name? | #Name? | 1 | 1 | #Name? |
| 1 | | Forecast for 12/01/2011 1 2:00:00 PM | 11-Jan-11 | Forecast BOM | AUCHENFL OWER | Flooded | Torwood Street | #Name? | #Name? | 1 | 1 | #Name? |
| 1 | | Forecast for 12/01/2011 1 2:00:00 PM | 11-Jan-11 | Forecast BOM | ROCKLEA | Flooded | Inskip Street | #Name? | #Name? | 1 | 1 | #Name? |
| 1 | | Forecast for 12/01/2011 1 2:00:00 PM | 11-Jan-11 | Forecast BOM | AUCHENFL OWER | Flooded | Huxham Terrace | #Name? | #Name? | 1 | 1 | #Name? |

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|---|--|-----------|-----------------|-------------------|---------|-----------------------|--------|--------|---|---|--------|
| 1 | Forecast for 12/01/2011 2:00:00 PM | 11-Jan-11 | Forecast BOM | HIGHGATE HILL | Flooded | Saint James Street | #Name? | #Name? | 1 | 1 | #Name? |
| 1 | Forecast for 12/01/2011 2:00:00 PM | 11-Jan-11 | Forecast BOM | FAIRFIELD | Flooded | Brougham Street | #Name? | #Name? | 1 | 1 | #Name? |
| 1 | Forecast for 12/01/2011 2:00:00 PM | 11-Jan-11 | Forecast BOM | MOOROOKA | Flooded | Evesham Street | #Name? | #Name? | 1 | 1 | #Name? |
| 1 | Forecast for 12/01/2011 2:00:00 PM | 11-Jan-11 | Forecast BOM | YERONGA | Flooded | Yeronga Street | #Name? | #Name? | 1 | 1 | #Name? |
| 1 | Forecast for 12/01/2011 2:00:00 PM | 11-Jan-11 | Forecast BOM | BARELLAN POINT | Flooded | Brisbane Crescent | #Name? | #Name? | 1 | 1 | #Name? |
| 1 | Forecast for 12/01/2011 2:00:00 PM | 11-Jan-11 | Forecast BOM | OXLEY | Flooded | Factory Rd Loop | #Name? | #Name? | 1 | 1 | #Name? |
| 1 | Forecast for 12/01/2011 2:00:00 PM | 11-Jan-11 | Forecast BOM | ROCKLEA | Flooded | Elmes Road | #Name? | #Name? | 1 | 1 | #Name? |
| 1 | Forecast for 12/01/2011 2:00:00 PM | 11-Jan-11 | Forecast BOM | ROCKLEA | Flooded | Ipswich Road | #Name? | #Name? | 1 | 1 | #Name? |
| 1 | Forecast for 12/01/2011 2:00:00 PM | 11-Jan-11 | Forecast BOM | GOODNA | Flooded | William Street | #Name? | #Name? | 1 | 1 | #Name? |
| 1 | Forecast for 12/01/2011 2:00:00 PM | 11-Jan-11 | Forecast BOM | FAIRFIELD | Flooded | William Parade | #Name? | #Name? | 1 | 1 | #Name? |
| 1 | Forecast for 12/01/2011 2:00:00 PM | 11-Jan-11 | Forecast BOM | OXLEY | Flooded | Factory Road | #Name? | #Name? | 1 | 1 | #Name? |

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|---|--|-----------|-----------------|-------------------|---------|---------------------|--------|--------|---|---|--------|
| 1 | Forecast for 12/01/2011 1 2:00:00 PM | 11-Jan-11 | Forecast BOM | ROCKLEA | Flooded | Breadwell Street | #Name? | #Name? | 1 | 1 | #Name? |
| 1 | Forecast for 12/01/2011 1 2:00:00 PM | 11-Jan-11 | Forecast BOM | ROCKLEA | Flooded | Shoebury Street | #Name? | #Name? | 1 | 1 | #Name? |
| 1 | Forecast for 12/01/2011 1 2:00:00 PM | 11-Jan-11 | Forecast BOM | YEERONGPILLY | Flooded | Allawah Street | #Name? | #Name? | 1 | 1 | #Name? |
| 1 | Forecast for 12/01/2011 1 2:00:00 PM | 11-Jan-11 | Forecast BOM | JINDALEE | Flooded | Sinnamon Road | #Name? | #Name? | 1 | 1 | #Name? |
| 1 | Forecast for 12/01/2011 1 2:00:00 PM | 11-Jan-11 | Forecast BOM | INDOOROO PILLY | Flooded | Vera Street | #Name? | #Name? | 1 | 1 | #Name? |
| 1 | Forecast for 12/01/2011 1 2:00:00 PM | 11-Jan-11 | Forecast BOM | INDOOROO PILLY | Flooded | Jerrang Street | #Name? | #Name? | 1 | 1 | #Name? |
| 1 | Forecast for 12/01/2011 1 2:00:00 PM | 11-Jan-11 | Forecast BOM | GOODNA | Flooded | Peel Street | #Name? | #Name? | 1 | 1 | #Name? |
| 1 | Forecast for 12/01/2011 1 2:00:00 PM | 11-Jan-11 | Forecast BOM | CORINDA | Flooded | Pratten Street | #Name? | #Name? | 1 | 1 | #Name? |
| 1 | Forecast for 12/01/2011 1 2:00:00 PM | 11-Jan-11 | Forecast BOM | ROCKLEA | Flooded | Boobook Street | #Name? | #Name? | 1 | 1 | #Name? |
| 1 | Forecast for 12/01/2011 1 2:00:00 PM | 11-Jan-11 | Forecast BOM | ROCKLEA | Flooded | De Hayr Street | #Name? | #Name? | 1 | 1 | #Name? |
| 1 | Forecast for 12/01/2011 1 2:00:00 PM | 11-Jan-11 | Forecast BOM | ROCKLEA | Flooded | Melbourne Street | #Name? | #Name? | 1 | 1 | #Name? |

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|---|--|--|-----------|-----------------|-------------------|---------|----------------------|--------|--------|---|---|--------|
| 1 | | Forecast for 12/01/2011 1 2:00:00 PM | 11-Jan-11 | Forecast BOM | INDOOROO PILLY | Flooded | Bridge Street | #Name? | #Name? | 1 | 1 | #Name? |
| 1 | | Forecast for 12/01/2011 1 2:00:00 PM | 11-Jan-11 | Forecast BOM | INDOOROO PILLY | Flooded | Kate Street | #Name? | #Name? | 1 | 1 | #Name? |
| 1 | | Forecast for 12/01/2011 1 2:00:00 PM | 11-Jan-11 | Forecast BOM | OXLEY | Flooded | Selma Street | #Name? | #Name? | 1 | 1 | #Name? |
| 1 | | Forecast for 12/01/2011 1 2:00:00 PM | 11-Jan-11 | Forecast BOM | SHERWOOD | Flooded | Hall Street | #Name? | #Name? | 1 | 1 | #Name? |
| 1 | | Forecast for 12/01/2011 1 2:00:00 PM | 11-Jan-11 | Forecast BOM | YEERONGPILLY | Flooded | Nares Street | #Name? | #Name? | 1 | 1 | #Name? |
| 1 | | Forecast for 12/01/2011 1 2:00:00 PM | 11-Jan-11 | Forecast BOM | BROOKFIELD | Flooded | Moggill Road | #Name? | #Name? | 1 | 1 | #Name? |
| 1 | | Forecast for 12/01/2011 1 2:00:00 PM | 11-Jan-11 | Forecast BOM | GRACEVILLE | Flooded | Long St East | #Name? | #Name? | 1 | 1 | #Name? |
| 1 | | Forecast for 12/01/2011 1 2:00:00 PM | 11-Jan-11 | Forecast BOM | ROCKLEA | Flooded | Donaldson Road | #Name? | #Name? | 1 | 1 | #Name? |
| 1 | | Forecast for 12/01/2011 1 2:00:00 PM | 11-Jan-11 | Forecast BOM | ROCKLEA | Flooded | Franklin Street | #Name? | #Name? | 1 | 1 | #Name? |
| 1 | | Forecast for 12/01/2011 1 2:00:00 PM | 11-Jan-11 | Forecast BOM | ROCKLEA | Flooded | Sherwood Road | #Name? | #Name? | 1 | 1 | #Name? |
| 1 | | Forecast for 12/01/2011 1 2:00:00 PM | 11-Jan-11 | Forecast BOM | MOUNT CROSBY | Flooded | Mount Crosby Road | #Name? | #Name? | 1 | 1 | #Name? |

| | | | | | | | | | | | | |
|---|--|--|-----------|-----------------|--------------------|---------|----------------------|--------|--------|---|---|--------|
| 1 | | Forecast for 12/01/2011 1 2:00:00 PM | 11-Jan-11 | Forecast BOM | ST LUCIA | Flooded | Munro Street | #Name? | #Name? | 1 | 1 | #Name? |
| 1 | | Forecast for 12/01/2011 1 2:00:00 PM | 11-Jan-11 | Forecast BOM | INDOOROO PILLY | Flooded | Kinloch Street | #Name? | #Name? | 1 | 1 | #Name? |
| 1 | | Forecast for 12/01/2011 1 2:00:00 PM | 11-Jan-11 | Forecast BOM | INDOOROO PILLY | Flooded | Witton Road | #Name? | #Name? | 1 | 1 | #Name? |
| 1 | | Forecast for 12/01/2011 1 2:00:00 PM | 11-Jan-11 | Forecast BOM | GOODNA | Flooded | Short Street | #Name? | #Name? | 1 | 1 | #Name? |
| 1 | | Forecast for 12/01/2011 1 2:00:00 PM | 11-Jan-11 | Forecast BOM | OXLEY | Flooded | Oxley Road | #Name? | #Name? | 1 | 1 | #Name? |
| 1 | | Forecast for 12/01/2011 1 2:00:00 PM | 11-Jan-11 | Forecast BOM | ROCKLEA | Flooded | Cambridge Street | #Name? | #Name? | 1 | 1 | #Name? |
| 1 | | Forecast for 12/01/2011 1 2:00:00 PM | 11-Jan-11 | Forecast BOM | SHERWOOD | Flooded | Thomas Street | #Name? | #Name? | 1 | 1 | #Name? |
| 1 | | Forecast for 12/01/2011 1 2:00:00 PM | 11-Jan-11 | Forecast BOM | YERONGA | Flooded | Rome Street South | #Name? | #Name? | 1 | 1 | #Name? |
| 1 | | Forecast for 12/01/2011 1 2:00:00 PM | 11-Jan-11 | Forecast BOM | HIGHGATE HILL | Flooded | Dauphin Terrace | #Name? | #Name? | 1 | 1 | #Name? |
| 1 | | Forecast for 12/01/2011 1 2:00:00 PM | 11-Jan-11 | Forecast BOM | ROCKLEA | Flooded | Andrew Street | #Name? | #Name? | 1 | 1 | #Name? |
| 1 | | Forecast for 12/01/2011 1 2:00:00 PM | 11-Jan-11 | Forecast BOM | FIG TREE POCKET | Flooded | Karella Street | #Name? | #Name? | 1 | 1 | #Name? |

| | | | | | | | | | | | |
|---|--|-----------|-----------------|--------------------|---------|----------------------------|--------|--------|---|---|--------|
| 1 | Forecast for 12/01/2011 1 2:00:00 PM | 11-Jan-11 | Forecast BOM | GOODNA | Flooded | Lower William Street | #Name? | #Name? | 1 | 1 | #Name? |
| 1 | Forecast for 12/01/2011 1 2:00:00 PM | 11-Jan-11 | Forecast BOM | MUIRLEA | Flooded | Riverside Drive | #Name? | #Name? | 1 | 1 | #Name? |
| 1 | Forecast for 12/01/2011 1 2:00:00 PM | 11-Jan-11 | Forecast BOM | INDOOROO PILLY | Flooded | Aaron Place | #Name? | #Name? | 1 | 1 | #Name? |
| 1 | Forecast for 12/01/2011 1 2:00:00 PM | 11-Jan-11 | Forecast BOM | GOODNA | Flooded | Woogaroo Street | #Name? | #Name? | 1 | 1 | #Name? |
| 1 | Forecast for 12/01/2011 1 2:00:00 PM | 11-Jan-11 | Forecast BOM | GOODNA | Flooded | Church Street | #Name? | #Name? | 1 | 1 | #Name? |
| 1 | Forecast for 12/01/2011 1 2:00:00 PM | 11-Jan-11 | Forecast BOM | ROCKLEA | Flooded | Dunn Road | #Name? | #Name? | 1 | 1 | #Name? |
| 1 | Forecast for 12/01/2011 1 2:00:00 PM | 11-Jan-11 | Forecast BOM | ROCKLEA | Flooded | Marshall Road | #Name? | #Name? | 1 | 1 | #Name? |
| 1 | Forecast for 12/01/2011 1 2:00:00 PM | 11-Jan-11 | Forecast BOM | ROCKLEA | Flooded | Medway Street | #Name? | #Name? | 1 | 1 | #Name? |
| 1 | Forecast for 12/01/2011 1 2:00:00 PM | 11-Jan-11 | Forecast BOM | SHERWOOD | Flooded | Egmont Street | #Name? | #Name? | 1 | 1 | #Name? |
| 1 | Forecast for 12/01/2011 1 2:00:00 PM | 11-Jan-11 | Forecast BOM | YEERONGPILLY | Flooded | Fairfield Road | #Name? | #Name? | 1 | 1 | #Name? |
| 1 | Forecast for 12/01/2011 1 2:00:00 PM | 11-Jan-11 | Forecast BOM | FIG TREE POCKET | Flooded | Sprenger Street | #Name? | #Name? | 1 | 1 | #Name? |

| | | | | | | | | | | | |
|---|--|-----------|-----------------|--------------------|---------|-------------------------|--------|--------|---|---|--------|
| 1 | Forecast for 12/01/2011 1 2:00:00 PM | 11-Jan-11 | Forecast BOM | PINJARRA HILLS | Flooded | Pinjarra Road | #Name? | #Name? | 1 | 1 | #Name? |
| 1 | Forecast for 12/01/2011 1 2:00:00 PM | 11-Jan-11 | Forecast BOM | OXLEY | Flooded | Ipswich Road | #Name? | #Name? | 1 | 1 | #Name? |
| 1 | Forecast for 12/01/2011 1 2:00:00 PM | 11-Jan-11 | Forecast BOM | ROCKLEA | Flooded | Herbert Street | #Name? | #Name? | 1 | 1 | #Name? |
| 1 | Forecast for 12/01/2011 1 2:00:00 PM | 11-Jan-11 | Forecast BOM | SUMNER | Flooded | Spine Street | #Name? | #Name? | 1 | 1 | #Name? |
| 1 | Forecast for 12/01/2011 1 2:00:00 PM | 11-Jan-11 | Forecast BOM | CORINDA | Flooded | Archer Parade | #Name? | #Name? | 1 | 1 | #Name? |
| 1 | Forecast for 12/01/2011 1 2:00:00 PM | 11-Jan-11 | Forecast BOM | INDOOROO PILLY | Flooded | Meiers Road | #Name? | #Name? | 1 | 1 | #Name? |
| 1 | Forecast for 12/01/2011 1 2:00:00 PM | 11-Jan-11 | Forecast BOM | OXLEY | Flooded | Logan Avenue | #Name? | #Name? | 1 | 1 | #Name? |
| 1 | Forecast for 12/01/2011 1 2:00:00 PM | 11-Jan-11 | Forecast BOM | CORINDA | Flooded | Kennard Street | #Name? | #Name? | 1 | 1 | #Name? |
| 1 | Forecast for 12/01/2011 1 2:00:00 PM | 11-Jan-11 | Forecast BOM | BROOKFIEL D | Flooded | Kilkivan Avenue | #Name? | #Name? | 1 | 1 | #Name? |
| 1 | Forecast for 12/01/2011 1 2:00:00 PM | 11-Jan-11 | Forecast BOM | CORINDA | Flooded | Cliveden Avenue | #Name? | #Name? | 1 | 1 | #Name? |
| 1 | Forecast for 12/01/2011 1 2:00:00 PM | 11-Jan-11 | Forecast BOM | FIG TREE POCKET | Flooded | Fig Tree Pocket Road | #Name? | #Name? | 1 | 1 | #Name? |

| | | | | | | | | | | | | |
|---|--|--|-----------|-----------------|-------------------|---------|---------------------|--------|--------|---|---|--------|
| 1 | | Forecast for 12/01/2011 1 2:00:00 PM | 11-Jan-11 | Forecast BOM | MOGGILL | Flooded | Myora Street | #Name? | #Name? | 1 | 1 | #Name? |
| 1 | | Forecast for 12/01/2011 1 2:00:00 PM | 11-Jan-11 | Forecast BOM | KENMORE | Flooded | Scenic Road | #Name? | #Name? | 1 | 1 | #Name? |
| 1 | | Forecast for 12/01/2011 1 2:00:00 PM | 11-Jan-11 | Forecast BOM | OXLEY | Flooded | Ipswich Motorway | #Name? | #Name? | 1 | 1 | #Name? |
| 1 | | Forecast for 12/01/2011 1 2:00:00 PM | 11-Jan-11 | Forecast BOM | CHUWAR | Flooded | Kholo Road | #Name? | #Name? | 1 | 1 | #Name? |
| 1 | | Forecast for 12/01/2011 1 2:00:00 PM | 11-Jan-11 | Forecast BOM | BARELLAN POINT | Flooded | Mitchell Street | #Name? | #Name? | 1 | 1 | #Name? |
| 1 | | Forecast for 12/01/2011 1 2:00:00 PM | 11-Jan-11 | Forecast BOM | BARELLAN POINT | Flooded | Riverside Avenue | #Name? | #Name? | 1 | 1 | #Name? |
| 1 | | Forecast for 12/01/2011 1 2:00:00 PM | 11-Jan-11 | Forecast BOM | GOODNA | Flooded | George Street | #Name? | #Name? | 1 | 1 | #Name? |
| 1 | | Forecast for 12/01/2011 1 2:00:00 PM | 11-Jan-11 | Forecast BOM | BARELLAN POINT | Flooded | Junction Drive | #Name? | #Name? | 1 | 1 | #Name? |
| 1 | | Forecast for 12/01/2011 1 2:00:00 PM | 11-Jan-11 | Forecast BOM | REDBANK | Flooded | Monash Street | #Name? | #Name? | 1 | 1 | #Name? |
| 1 | | Forecast for 12/01/2011 1 2:00:00 PM | 11-Jan-11 | Forecast BOM | GOODNA | Flooded | Brisbane Terrace | #Name? | #Name? | 1 | 1 | #Name? |
| 1 | | Forecast for 12/01/2011 1 2:00:00 PM | 11-Jan-11 | Forecast BOM | ANSTEAD | Flooded | Wirrabara Road | #Name? | #Name? | 1 | 1 | #Name? |

| | | | | | | | | | | | |
|---|--|-----------|-----------------|-------------------|---------|-----------------------|--------|--------|---|---|--------|
| 1 | Forecast for 12/01/2011 1 2:00:00 PM | 11-Jan-11 | Forecast BOM | WACOL | Flooded | Wacol Station Road | #Name? | #Name? | 1 | 1 | #Name? |
| 1 | Forecast for 12/01/2011 1 2:00:00 PM | 11-Jan-11 | Forecast BOM | MOUNT CROSBY | Flooded | Bridge | #Name? | #Name? | 1 | 1 | #Name? |
| 1 | Forecast for 12/01/2011 1 2:00:00 PM | 11-Jan-11 | Forecast BOM | REDBANK | Flooded | Brisbane Terrace | #Name? | #Name? | 1 | 1 | #Name? |
| 1 | Forecast for 12/01/2011 1 2:00:00 PM | 11-Jan-11 | Forecast BOM | ALBION | Flooded | Inner City Bypass | #Name? | #Name? | 1 | 1 | #Name? |
| 1 | Forecast for 12/01/2011 1 2:00:00 PM | 11-Jan-11 | Forecast BOM | BARELLAN POINT | Flooded | Junction Road | #Name? | #Name? | 1 | 1 | #Name? |
| 1 | Forecast for 12/01/2011 1 2:00:00 PM | 11-Jan-11 | Forecast BOM | GOODNA | Flooded | Layard Street | #Name? | #Name? | 1 | 1 | #Name? |
| 1 | Forecast for 12/01/2011 1 2:00:00 PM | 11-Jan-11 | Forecast BOM | CHUWAR | Flooded | Kholo Bridge | #Name? | #Name? | 1 | 1 | #Name? |
| 1 | Forecast for 12/01/2011 1 2:00:00 PM | 11-Jan-11 | Forecast BOM | KHOLO | Flooded | Kholo Bridge | #Name? | #Name? | 1 | 1 | #Name? |
| 1 | Forecast for 12/01/2011 1 2:00:00 PM | 11-Jan-11 | Forecast BOM | PINE MOUNTAIN | Flooded | Kholo Bridge | #Name? | #Name? | 1 | 1 | #Name? |
| 1 | Forecast for 12/01/2011 1 2:00:00 PM | 11-Jan-11 | Forecast BOM | RIVERVIEW | Flooded | Old Ipswich Road | #Name? | #Name? | 1 | 1 | #Name? |
| 1 | Forecast for 12/01/2011 1 2:00:00 PM | 11-Jan-11 | Forecast BOM | MOGGILL | Flooded | Priors Pocket Road | #Name? | #Name? | 1 | 1 | #Name? |

| | | | | | | | | | | | | |
|---|--|--|-----------|-----------------|-----------------|---------|------------------------|--------|--------|---|---|--------|
| 1 | | Forecast for 12/01/2011 1 2:00:00 PM | 11-Jan-11 | Forecast BOM | GOODNA | Flooded | Noel Kelly Drive | #Name? | #Name? | 1 | 1 | #Name? |
| 1 | | Forecast for 12/01/2011 1 2:00:00 PM | 11-Jan-11 | Forecast BOM | GOODNA | Flooded | Wiruna Street | #Name? | #Name? | 1 | 1 | #Name? |
| 1 | | Forecast for 12/01/2011 1 2:00:00 PM | 11-Jan-11 | Forecast BOM | WACOL | Flooded | Wiruna Street | #Name? | #Name? | 1 | 1 | #Name? |
| 1 | | Forecast for 12/01/2011 1 2:00:00 PM | 11-Jan-11 | Forecast BOM | MOGGILL | Flooded | Moggill Road | #Name? | #Name? | 1 | 1 | #Name? |
| 1 | | Forecast for 12/01/2011 1 2:00:00 PM | 11-Jan-11 | Forecast BOM | RIVERVIEW | Flooded | Moggill Fry Road | #Name? | #Name? | 1 | 1 | #Name? |
| 1 | | Forecast for 12/01/2011 1 2:00:00 PM | 11-Jan-11 | Forecast BOM | GOODNA | Flooded | Lower Stuart Street | #Name? | #Name? | 1 | 1 | #Name? |
| 1 | | Forecast for 12/01/2011 1 2:00:00 PM | 11-Jan-11 | Forecast BOM | CHUWAR | Flooded | Mount Crosby Road | #Name? | #Name? | 1 | 1 | #Name? |
| 1 | | Forecast for 12/01/2011 1 2:00:00 PM | 11-Jan-11 | Forecast BOM | KARANA DOWNS | Flooded | Mount Crosby Road | #Name? | #Name? | 1 | 1 | #Name? |

Created: 11/01/2010 12:30AM
Based on BoM forecasted water levels including forecast
rainfall over next 2 days as at 10/01/2011 6:00pm
(3.1 mAHD @ Brisbane City Gauge)

Current FIC Controller: James Charalambous
Current FIC Ass. Controller: Belinda Chapman
Current FIC Bender: James Charalambous

Flooded Properties Summary

Forecast Profile

VIEW Cell Profile Number **1**

FLOOD DESCRIPTION
Forecast for 12/01/2011 2:00:00 PM

ISSUE DATE
11/01/2011 12:30:00 AM

FLOOD COMMENT
Forecast BOM

| Property Status | Property Count | People | Selected |
|-------------------|----------------|--------|----------|
| Flooded | 1223 | 2749 | Yes |
| Partially Flooded | 9502 | 22273 | Yes |

Based on BoM forecasted water levels including forecast rainfall over next 2 days as at 10/01/2011 6:00pm
(3.1 mAHD @ Brisbane City Gauge)

Record: 1 of 2

Refer to attached Excel document for details

Top Flooded Suburbs

| Suburb | Property Status | Count | People | Selected |
|------------------|-----------------|-------|--------|----------|
| ► BRISBANE | Flooded | 403 | 375 | Yes |
| BRISBANE CITY | Flooded | 141 | 277 | Yes |
| MILTON | Flooded | 117 | 257 | Yes |
| ST LUCIA | Flooded | 93 | 225 | Yes |
| TOOWONG | Flooded | 78 | 172 | Yes |
| ALBION | Flooded | 64 | 134 | Yes |
| AUGHENFLOWELL | Flooded | 62 | 136 | Yes |
| FAIRFIELD | Flooded | 61 | 140 | Yes |
| OXLEY | Flooded | 49 | 126 | Yes |
| NORMAN PARK | Flooded | 48 | 116 | Yes |
| NEW FARM | Flooded | 38 | 85 | Yes |
| PILE MIRA | Flooded | 33 | 79 | Yes |
| GRACEVILLE | Flooded | 27 | 70 | Yes |
| EAST BRISBANE | Flooded | 26 | 51 | Yes |
| YELCONA | Flooded | 24 | 56 | Yes |
| WIMBOR | Flooded | 23 | 51 | Yes |
| KANGAROO POINT | Flooded | 21 | 43 | Yes |
| SHERWOOD | Flooded | 18 | 46 | Yes |
| NEWSLEAD | Flooded | 17 | 34 | Yes |
| INDORROPHLY | Flooded | 14 | 27 | Yes |
| CHELVER | Flooded | 11 | 27 | Yes |
| SOUTH BRISBANE | Flooded | 10 | 21 | Yes |
| YEERONGILLY | Flooded | 10 | 24 | Yes |
| PRIDMORE | Flooded | 8 | 18 | Yes |
| MOGILL | Flooded | 7 | 22 | Yes |
| BURNER HILLS | Flooded | 7 | 14 | Yes |
| WEST END | Flooded | 7 | 15 | Yes |
| CORINA | Flooded | 8 | 15 | Yes |
| COORPAROO | Flooded | 6 | 13 | Yes |
| WAGOL | Flooded | 4 | 12 | Yes |
| FORTITUDE VALLEY | Flooded | 4 | 6 | Yes |
| TENNYSON | Flooded | 3 | 7 | Yes |
| HERSTON | Flooded | 3 | 6 | Yes |
| HAVERHURST | Flooded | 3 | 7 | Yes |
| RAI MORAI | Flooded | 2 | 5 | Yes |
| FIG TREE POCKET | Flooded | 2 | 6 | Yes |
| HAMILTON | Flooded | 2 | 5 | Yes |
| LYTTON | Flooded | 2 | 5 | Yes |
| MIRARRIB | Flooded | 2 | 5 | Yes |

Refer to attached Excel document for details of Full List

Top Partially Flooded Suburbs

| Suburb | Property Status | Properties | People | Selected |
|-----------------|-------------------|------------|--------|----------|
| ▶ BERRIGRAVE | Partially Flooded | 1241 | 2441 | Yes |
| ST LUCIA | Partially Flooded | 554 | 1402 | Yes |
| NEW FARM | Partially Flooded | 445 | 801 | Yes |
| WEST END | Partially Flooded | 383 | 782 | Yes |
| ROCKFALL | Partially Flooded | 289 | 685 | Yes |
| TOOWONG | Partially Flooded | 285 | 827 | Yes |
| ALCHINGFLOWER | Partially Flooded | 274 | 559 | Yes |
| ELLIMBA | Partially Flooded | 245 | 588 | Yes |
| CHIFFMERE | Partially Flooded | 243 | 589 | Yes |
| BOWEN HILLS | Partially Flooded | 240 | 490 | Yes |
| YERONGA | Partially Flooded | 233 | 556 | Yes |
| NEWSTAD | Partially Flooded | 227 | 454 | Yes |
| WINDSOR | Partially Flooded | 212 | 406 | Yes |
| MOORE | Partially Flooded | 210 | 451 | Yes |
| HEATH | Partially Flooded | 201 | 442 | Yes |
| KARANA Downs | Partially Flooded | 200 | 400 | Yes |
| FIR TREE POCKET | Partially Flooded | 190 | 573 | Yes |
| ODDLY | Partially Flooded | 180 | 479 | Yes |
| INDORODRITY | Partially Flooded | 170 | 459 | Yes |
| FAIRFIELD | Partially Flooded | 170 | 400 | Yes |
| NORMAN PARK | Partially Flooded | 174 | 410 | Yes |
| SOUTH BRIDGEM | Partially Flooded | 170 | 360 | Yes |
| SURWOOD | Partially Flooded | 160 | 430 | Yes |
| HEMANT | Partially Flooded | 160 | 410 | Yes |
| PINDORA | Partially Flooded | 160 | 352 | Yes |
| EAST BRIDGEM | Partially Flooded | 144 | 290 | Yes |
| ALBION | Partially Flooded | 130 | 290 | Yes |
| BRADFIELD | Partially Flooded | 130 | 355 | Yes |
| WEST AVE | Partially Flooded | 120 | 340 | Yes |
| COORNA | Partially Flooded | 104 | 260 | Yes |
| COORPAROON | Partially Flooded | 100 | 227 | Yes |
| ICANGARRO POINT | Partially Flooded | 90 | 191 | Yes |
| ICEMORE | Partially Flooded | 90 | 200 | Yes |
| INDALFF | Partially Flooded | 90 | 200 | Yes |
| HAUGHTON | Partially Flooded | 90 | 200 | Yes |
| CHIVAR | Partially Flooded | 85 | 255 | Yes |
| RETTOWER | Partially Flooded | 85 | 260 | Yes |
| KINDO | Partially Flooded | 84 | 252 | Yes |

Refer to attached Excel document in Email for Full List

Top Flooded Infrastructure

| Type | Suburb | Status | Selected |
|---|-----------------|-------------------|----------|
| SEWER PUMP STATION | ST LUCIA | Partially Flooded | Yes |
| MEDICAL HOSPITAL BETHANY CHRISTIAN CARE | GRACEVILLE | Partially Flooded | Yes |
| COMMUNICATION COMMS TOWER | ROCKLEA | Partially Flooded | Yes |
| COMMUNICATION COMMS TOWER | ROCKLEA | Partially Flooded | Yes |
| COMMUNICATION COMMS TOWER | ROCKLEA | Partially Flooded | Yes |
| NON-MEDICAL WELFARE INSTITUTE WESLEY CENTRAL MISSION | SINNAMON PARK | Partially Flooded | Yes |
| SEWER PUMP STATION | ARCHERFIELD | Partially Flooded | Yes |
| COMMUNICATION COMMS TOWER | ROCKLEA | Partially Flooded | Yes |
| COMMUNICATION COMMS TOWER | ROCKLEA | Partially Flooded | Yes |
| COMMUNICATION COMMS TOWER | ROCKLEA | Partially Flooded | Yes |
| COMMUNICATION COMMS TOWER | ROCKLEA | Partially Flooded | Yes |
| COMMUNICATION COMMS TOWER | ROCKLEA | Partially Flooded | Yes |
| COMMUNICATION COMMS TOWER | ROCKLEA | Partially Flooded | Yes |
| COMMUNICATION COMMS TOWER | ROCKLEA | Partially Flooded | Yes |
| COMMUNICATION COMMS TOWER | ACACIA RIDGE | Partially Flooded | Yes |
| SEWER PUMP STATION | KENMORE | Partially Flooded | Yes |
| SEWER PUMP STATION | KENMORE | Partially Flooded | Yes |
| COMMUNICATION COMMS TOWER | ROCKLEA | Partially Flooded | Yes |
| SEWER PUMP STATION | FIG TREE POCKET | Partially Flooded | Yes |
| COMMUNICATION COMMS TOWER | ROCKLEA | Partially Flooded | Yes |
| SEWER TREATMENT PLANT | ROCKLEA | Partially Flooded | Yes |
| ACCOMMODATION GUEST HOUSE/HOSTEL THE CONGREGATION OF THE PASSION IN AUSTRALIA | OXLEY | Partially Flooded | Yes |
| SEWER TREATMENT PLANT | KARANA DOWNS | Partially Flooded | Yes |
| SEWER PUMP STATION | FIG TREE POCKET | Partially Flooded | Yes |
| WATER SUPPLY SAMPLING POINT | SHERWOOD | Partially Flooded | Yes |
| SEWER PUMP STATION | KENMORE | Partially Flooded | Yes |
| SEWER PUMP STATION | JINDALEE | Partially Flooded | Yes |
| SEWER PUMP STATION | JINDALEE | Partially Flooded | Yes |
| NON-MEDICAL WELFARE INSTITUTE THE QUEENSLAND SOCIETY FOR CRIPPLED CHILDREN | CORINDA | Partially Flooded | Yes |
| SEWER PUMP STATION | KENMORE | Partially Flooded | Yes |
| SEWER PUMP STATION | WESTLAKE | Partially Flooded | Yes |
| EDUCATION SCHOOL UNIVERSITY OF QUEENSLAND | PINJARRA HILLS | Partially Flooded | Yes |
| SEWER PUMP STATION | BELLBOWRIE | Partially Flooded | Yes |
| EDUCATION SCHOOL BRISBANE CITY COUNCIL | BELLBOWRIE | Partially Flooded | Yes |
| MEDICAL HOSPITAL DEPARTMENT OF HEALTH - STATE | WACOL | Partially Flooded | Yes |
| COMMUNICATION COMMS TOWER | EAGLE FARM | Partially Flooded | Yes |
| EDUCATION SCHOOL THE SISTERS OF THE GOOD SAMARITAN LOURDES | HAWTHORNE | Partially Flooded | Yes |

Refer to attached Excel document for Full List

Top Flooded Roads

| Flooded Roads sorted by depth (ascending) | | Suburb | Status | Selected |
|---|----------------------|-----------------|---------|----------|
| | Archer Parade | CORINDA | Flooded | Yes |
| | Meiers Road | INDOORCOPIILLY | Flooded | Yes |
| | Logan Avenue | OXLEY | Flooded | Yes |
| | Kennard Street | CORINDA | Flooded | Yes |
| | Kilkivan Avenue | BROOKFIELD | Flooded | Yes |
| | Cliveden Avenue | CORINDA | Flooded | Yes |
| | Fig Tree Pocket Road | FIG TREE POCKET | Flooded | Yes |
| | Myora Street | MOGGILL | Flooded | Yes |
| | Scenic Road | KENMORE | Flooded | Yes |
| | Ipswich Motorway | OXLEY | Flooded | Yes |
| | Kholo Road | CHUWAR | Flooded | Yes |
| | Mitchell Street | BARELLAN POINT | Flooded | Yes |
| | Riverside Avenue | BARELLAN POINT | Flooded | Yes |
| | George Street | GOODNA | Flooded | Yes |
| | Junction Drive | BARELLAN POINT | Flooded | Yes |
| | Monash Street | REDBANK | Flooded | Yes |
| | Brisbane Terrace | GOODNA | Flooded | Yes |
| | Wirrabara Road | ANSTEAD | Flooded | Yes |
| | Wacol Station Road | WACOL | Flooded | Yes |
| | Bridge | MOUNT CROSBY | Flooded | Yes |
| | Brisbane Terrace | REDBANK | Flooded | Yes |
| | Inner City Bypass | ALBION | Flooded | Yes |
| | Junction Road | BARELLAN POINT | Flooded | Yes |
| | Layard Street | GOODNA | Flooded | Yes |
| | Kholo Bridge | CHUWAR | Flooded | Yes |
| | Kholo Bridge | KHOLO | Flooded | Yes |
| | Kholo Bridge | PINE MOUNTAIN | Flooded | Yes |
| | Old Ipswich Road | RIVERVIEW | Flooded | Yes |
| | Priora Pocket Road | MOGGILL | Flooded | Yes |
| | Noel Kelly Drive | GOODNA | Flooded | Yes |
| | Wiluna Street | GOODNA | Flooded | Yes |
| | Wiluna Street | WACOL | Flooded | Yes |
| | Moggill Road | MOGGILL | Flooded | Yes |
| | Moggill Fry Road | RIVERVIEW | Flooded | Yes |
| | Lower Stuart Street | GOODNA | Flooded | Yes |
| | Mount Crosby Road | CHUWAR | Flooded | Yes |
| | Mount Crosby Road | KARANA DOWNS | Flooded | Yes |

Refer to attached Excel document in Email for Full List

20/06/2014

From: Flood_Information_Centre
To: FIC-Standby-Duty-Officers; Flood_Information_Centre; LDCC; Prentice, William
Date: Tue, Jan 11, 2011 12:47 am
Subject: Update from Bom

BoM are liaising with SEQWater re Wivenhoe Dam releases to try and minimise the impact of the flash flooding in the Lockyer River on the Lower Brisbane River flows.

Worst case scenario at this stage is 3.5m AHD (5000 cumecs) at the City Gauge. This includes the effect of the atmospheric anomaly on tide levels. The Bureau's current official advice is 3.0m at the City Gauge occurring on the afternoon high tide. They will not be updating their official advice until 8am Tuesday when they have more certainty around their forecast.

Evan Caswell
FIC Controller Shift 2

Flood Information Centre
Level 1 - South Tower Green Square
505 St Paul's Terrace
FORTITUDE VALLEY QLD 4006
Telephone: [REDACTED]
Facsimile: [REDACTED]
Email: [REDACTED]

BOM Alert

From: Flood Information Centre [REDACTED]
To: Flood Information Centre [REDACTED]
Date: Tue, 11 Jan 2011 03:35:38 +1000

BOM: TO::BOM552

RIVER HEIGHT BULLETIN for Brisbane, Pine, Caboolture Rivers and tributaries

Issued at 3.30am on Tuesday, 11 January 2011

Bureau of Meteorology, Brisbane

| Station Name | Time | Height | Trend | Crossing |
|--------------|------|--------|-------|----------|
|--------------|------|--------|-------|----------|

Stanley/Upper Brisbane

| | | | |
|-----------------------------|---------|-------|----------------------|
| Stanley R at Peachester # | 3.25am | 5.50 | R |
| Stanley R at Peachester * | 2.10am | 5.51 | R |
| Stanley R at Woodford * | 2.30am | 6.46 | F 0.06 above bridge |
| Stanley R at Woodford # | 3.28am | 6.40 | F At Level of bridge |
| Stanley R at Woodford # | 3.23am | 6.42 | F 0.02 above bridge |
| Cooyar Ck at Cooyar Ck # | 3.27am | 8.78 | F |
| Cooyar Ck at Cooyar Ck * | 12.24am | 6.22 | R |
| Brisbane R at Linville # | 3.18am | 10.02 | |
| Brisbane R at Devon Hills # | 3.27am | 8.11 | R |
| Emu Ck at Boat Mountain # | 3.25am | 5.08 | R |

Emu Ck at Boat Mountain * 2.52am 5.14 S

Brisbane R at Gregor Ck # 3.26am 6.90 R

Brisbane R at Gregor Ck * 2.00am 4.48 F

Cressbrook Ck at Rosentreter's Br # 3.27am 5.22 F

Cressbrook Ck at Rosentreter's Br * 2.00am 5.17 S

Lower Brisbane

Sandy Creek at Sandy Creek Road # 3.19am 2.15 F 0.25 above crossing

Tenthill Ck at Tenthill * 2.40am 5.57 R

Laidley Ck at Mulgowie * 2.20am 6.39 R 0.71 below bridge

Laidley Ck at Showground Weir # 3.25am 7.84 R 3.69 above weir

Laidley Ck at Showground Weir * 2.40am 7.53 R 3.38 above weir

Laidley Ck at Warrego Hwy * 2.00am 6.41 R

Lockyer Ck at Glenore Grove # 3.24am 13.80 F

Lockyer Ck at Lyons Br # 3.23am 15.55 R

Lockyer Ck at Rifle Range Rd * 2.40am 15.39 R

Lockyer Ck at O'Reilly'S Weir # 3.28am 18.00 F 10.34 above weir

Lockyer Ck at O'Reilly'S Weir * 2.30am 18.11 F 10.45 above weir

Brisbane R at Savages Crossing # 3.26am 15.85 R 12.95 above bridge

Brisbane R at Savages Crossing * 2.20am 15.78 R 12.88 above bridge

Brisbane R at Mt Crosby # 3.27am 15.81 S 3.46 above bridge

Bremer R at Spressers Br # 3.13am 5.57 F 0.77 above bridge

Western Ck at Grandchester # 3.25am 3.68 F 0.92 below bridge

Western Ck at Rosewood Wwtp # 3.29am 6.33 S 0.92 below approaches

Bremer R at Rosewood# 3.11am 5.56 F 0.36 above bridge

Bremer R at Rosewood # 3.26am 5.56 F 0.36 above bridge

Bremer R at Five Mile Br Walloon # 3.15am 6.40 R 1.90 above approaches

Bremer R at Walloon Derm * 2.00am 7.14 R

Warrill Ck at Kalbar Weir Hw # 3.24am 76.85 R 2.08 above weir

Warrill Ck at Kalbar Weir Tw * 2.25am 6.15 S

Warrill Ck at Harrisville# 2.18am 5.00 S 0.50 below bridge

Warrill Ck at Harrisville # 3.08am 5.14 F 0.36 below bridge

Warrill Ck at Churchbank Weir # 3.14am 2.71 R 2.71 above weir

Warrill Ck at Churchbank Weir * 2.30am 2.66 R 2.66 above weir

Warrill Ck at Greens Rd Amberley # 3.29am 5.84 F

Warrill Ck at Amberley Dnr * 2.00am 6.76 S

Purga Ck at Peak Crossing # 3.24am 2.11 F 2.99 below bridge

Purga Ck at Loamside * 2.40am 7.32 F

Bremer R at One Mile Br # 3.11am 13.70 R 3.50 below bridge

Bremer R at Hancocks Br Brassall # 3.22am 11.33 R 2.47 below bridge

Bremer R at Ipswich # 3.30am 8.50 F 16.38 below bridge

Ipswich/Brisbane Creeks

Bundamba Ck Harding St Raceview # 3.06am 23.63 F

Bundamba Ck at Blackstone Br # 3.12am 18.04 F 2.76 below bridge

Bundamba Ck at Bundamba School # 3.15am 14.13 F 2.17 below bridge

Woogaroo Ck at Opossum # 1.38am 21.30 F

Oxley Ck New Beith Rd Greenbank * 2.40am 3.02 F

Oxley Ck Beatty Rd Archerfield # 3.18am 5.48 R

Oxley Ck Corinda High # 3.10am 3.47 R

Oxley Ck Mouth # 3.13am 3.03 R

Enoggera Reservoir # 3.09am 76.08 S 1.71 above full supply

Pine/Caboolture

South Pine R at Cash'S Crossing# 3.21am 2.50 F

North Pine R at Youngs Crossing# 3.07am 5.07 S

Trend

S steady RS rising slowly FS falling slowly

P peak R rising F falling

EP estimated peak RF rising fast FF falling fast

Notes:

1. All heights are in metres.

2. Stations marked with [^] indicate heights above AHD.

3. Data from automatic stations [* or #] have not been checked & may have errors.

4. This product includes data made available to the Bureau by other agencies.

Separate approval may be required to use the data for other purposes. Refer to

Flood Gauge Information for station ownership.

This message has passed through an insecure network.

Please direct all enquiries to the message author.

BOM Alert

From: Flood Information Centre [REDACTED]
To: Flood Information Centre [REDACTED]
Date: Tue, 11 Jan 2011 04:15:12 +1000

BOM:

Australian Government Bureau of Meteorology

Queensland

PRIORITY

FLOOD WARNING FOR THE LOCKYER, BREMER, WARRILL AND BRISBANE RIVER
BELOW WIVENHOE

INCLUDING BRISBANE CITY

Issued at 4:06 AM on Tuesday the 11th of January 2011

by the Bureau of Meteorology, Brisbane.

The main flood waters in the Lockyer Creek are now arriving at Lyons Bridge,

with strong stream rises expected during Tuesday.

Wivenhoe dam is providing significant mitigation of upper Brisbane floods. River

flows from the Bremer and Lockyer catchments combined with releases from

Wivenhoe dam are expected to increase levels in Brisbane during Tuesday.

At the Brisbane City Gauge, minor flood levels of about 2.1 metres are expected

with the afternoon high tide on Tuesday and levels of about 3 metres are

expected with the high tides on Wednesday causing moderate flooding.

(3 metres at the Brisbane City gauge is about 1.5 metres higher than the highest

tide of the year at this location).

LOCKYER CREEK:

Extremely heavy rainfall during Monday led to extreme rises in the Lockyer Creek

catchment and Laidley Creek at Mulgowie. Record flood levels of 18.92 metres

were recorded at Gatton Monday evening before the station failed. This level was

well above the previous record peak of 16.33 metres from the February 1893

flood.

The main flood waters are currently arriving at Lyons Bridge, with strong stream

rises expected in the next few hours. The Lockyer Creek at Glenore Grove peaked

at 14.60 metres at 11:30pm, which is 0.3 metres below the 1974 flood.

Renewed stream rises have commenced in Lockyer Creek at Lyons Bridge with a peak

between 16 and 16.5 metres expected Tuesday morning. This is likely to be

similar in level to the 1996 flood.

BREMER RIVER:

The Bremer River at Walloon has exceeded the moderate flood level. The Bremer

River at Rosewood peaked at 5.8 metres around midnight monday.

The Bremer River at Ipswich is expected to reach about 12.7 metres on Tuesday

afternoon. Higher levels are possible.

WARRILL CREEK

Warrill Creek at Amberley peaked at 5.98 metres around 9pm Monday.

MIDDLE AND LOWER BRISBANE:

Moderate flooding is developing at Savages Crossing and at Mt Crosby Weir.

At the Brisbane City Gauge (lower end of Edward Street and at Thornton Street),

minor flood levels of about 2.1 metres are expected with the afternoon high tide

on Tuesday and levels of about 3 metres are expected with the high tides on

Wednesday causing moderate flooding.

(3 metres at the Brisbane City gauge is about 1.5 metres higher than the highest tide of the year at this location).

Predicted River Heights/Flows:

Ipswich: Reach about 12.7 metres (major) during Tuesday afternoon.

Moggill: Reach about 12 metres (minor) during Tuesday afternoon.

Jindalee: Reach about 7 metres (minor) overnight Tuesday.

Brisbane: Reach about 2.1 metres (minor) with the afternoon high tide on

Tuesday. Reach about 3 metres (moderate) with the high tides on Wednesday.

(3 metres at the Brisbane City gauge is about 1.5 metres higher than the highest tide of the year at this location).

Further rises are possible at all four locations depending on further rain.

Next Issue:

The next warning will be issued at about 8am Tuesday.

Latest River Heights:

Lockyer Ck at Helidon # 12.68m steady 03:02 PM MON 10/01/11

 Flagstone Ck at Brown-Zirbels Rd * 3.49m falling 02:10 AM TUE 11/01/11

 Sandy Creek at Sandy Creek Road # 2.15m falling 03:19 AM TUE 11/01/11

 Ma Ma Ck at Harm's * 3.26m rising 02:30 AM TUE 11/01/11

 Tenthill Ck at Tenthill * 5.57m rising 02:40 AM TUE 11/01/11

 Lockyer Ck at Gatton # 18.92m rising 06:30 PM MON 10/01/11

 Laidley Ck at Mulgowie * 6.39m rising 02:20 AM TUE 11/01/11

 Laidley Ck at Laidley 8.7m falling slowly 10:00 PM MON 10/01/11

 Laidley Ck at Showground Weir # 7.84m rising 03:25 AM TUE 11/01/11

 Laidley Ck at Warrego Hwy * 6.41m rising 02:00 AM TUE 11/01/11

 Lockyer Ck at Glenore Grove # 13.8m falling 03:24 AM TUE 11/01/11

 Lockyer Ck at Lyons Br # 15.55m rising 03:23 AM TUE 11/01/11

Lockyer Ck at Rifle Range Rd * 15.39m rising 02:40 AM TUE 11/01/11

Lockyer Ck at O'Reilly's Weir # 18m falling 03:28 AM TUE 11/01/11

Brisbane R at Lowood Pump Stn # 15.93m falling 03:31 AM TUE 11/01/11

Brisbane R at Savages Crossing # 15.89m rising 03:29 AM TUE 11/01/11

Brisbane R at Burtons Br # 12.22m rising 03:29 AM TUE 11/01/11

Brisbane R at Kholo Br # 7.99m rising 03:29 AM TUE 11/01/11

Brisbane R at Mt Crosby # 15.82m steady 03:30 AM TUE 11/01/11

Brisbane R at Mt Crosby # 14.08m falling 04:39 PM MON 10/01/11

Brisbane R at Colleges Crossing # 13.91m rising 03:32 AM TUE 11/01/11

Bremer R at Rosewood# 5.56m falling 03:11 AM TUE 11/01/11

Bremer R at Five Mile Br Walloon # 6.4m rising 03:15 AM TUE 11/01/11

Warrill Ck at Greens Rd Amberley # 5.84m falling 03:29 AM TUE 11/01/11

Bremer R at One Mile Br # 13.75m rising 03:31 AM TUE 11/01/11

Bremer R at Hancocks Br Brassall # 11.33m rising 03:22 AM TUE 11/01/11

Bremer R at Ipswich # 8.55m rising 03:31 AM TUE 11/01/11

Brisbane R at Moggill # 7.07m rising 03:29 AM TUE 11/01/11

Brisbane R at Jindalee Br # 4.5m rising 03:29 AM TUE 11/01/11

Brisbane R at City Gauge # 1.4m falling 03:15 AM TUE 11/01/11

*automatic station

Warnings and River Height Bulletins are available at

<http://www.bom.gov.au/qld/flood/> . Flood Warnings are also available on

telephone 1300 659 219 at a low call cost of 27.5 cents, more from mobile,

public and satellite phones.

This message has passed through an insecure network.

Please direct all enquiries to the message author.

BOM Alert

From: Flood Information Centre [REDACTED]
To: Flood Information Centre [REDACTED]
Date: Tue, 11 Jan 2011 04:15:23 +1000

BOM:

Australian Government Bureau of Meteorology

Queensland

FLASH FLOOD WARNING FOR LOCKYER CREEK

Issued at 4:10 AM on Tuesday the 11th of January 2011

by the Bureau of Meteorology, Brisbane.

Extremely heavy rainfall during Monday led to extreme rises in the Lockyer Creek catchment and Laidley Creek at Mulgowie. Record flood levels of 18.92 metres were recorded at Gatton Monday evening before the station failed. This level was well above the previous record peak of 16.33 metres from the February 1893 flood.

The main flood waters are currently arriving at Lyons Bridge, with strong stream rises expected in the next few hours. The Lockyer Creek at Glenore Grove peaked at 14.60 metres at 11:30pm, which is 0.3 metres below the 1974 flood.

Renewed stream rises have commenced in Lockyer Creek at Lyons Bridge with a peak between 16 and 16.5 metres expected Tuesday morning. This is likely to be

similar in level to the 1996 flood.

Contact the SES on 132 500 for emergency assistance if required.

Next Issue:

The next warning will be issued at about noon Tuesday.

Latest River Heights:

nil.

Warnings and River Height Bulletins are available at

<http://www.bom.gov.au/qld/flood/> . Flood Warnings are also available on
telephone 1300 659 219 at a low call cost of 27.5 cents, more from mobile,
public and satellite phones.

This message has passed through an insecure network.

Please direct all enquiries to the message author.

BOM Alert

From: Flood Information Centre <[REDACTED]>
To: Flood Information Centre <[REDACTED]>
Date: Tue, 11 Jan 2011 05:05:22 +1000

BOM:

Australian Government Bureau of Meteorology

Queensland

TOP PRIORITY FOR IMMEDIATE BROADCAST

SEVERE WEATHER WARNING

for heavy rainfall leading to localised flash flooding and potentially worsening the existing river flood situation

For people in the Southeast Coast, Darling Downs and Granite Belt, far southern parts of the Wide Bay and Burnett and eastern parts of the Maranoa and Warrego districts.

Issued at 5:05 am on Tuesday 11 January 2011

Synoptic Situation: At 4am EST, an upper level low was located over the Darling Downs and Granite Belt district. The upper low is forecast to move southwest over the southern interior of Queensland while weakening during the day.

Heavy rain areas and thunderstorms are expected to continue through the Southeast Coast, Darling Downs and Granite Belt, far southern parts of the Wide Bay and Burnett and eastern parts of the Maranoa and Warrego districts today.

Heavy falls may lead to localised flash flooding and/or worsen existing river

flooding.

The heavy rain areas and thunderstorms are expected to contract to the south by late today, before gradually easing.

Recent events: Rainfall since 9am Monday Monsildale 160mm, Mt Stanley 135mm, and Redbank Creek 134mm.

Flood warnings are current for various rivers and streams in these districts; refer to these products [www.bom.gov.au/qld] for further information.

The State Emergency Service advises that people in the affected area should:

• avoid driving, walking or riding through flood waters

• take care on the roads, especially in heavy downpours

• avoid swimming in swollen rivers and creeks

Contact the SES on 132 500 for emergency assistance if required.

The next warning is due to be issued by 11am Tuesday.

This warning is also available through TV and Radio broadcasts; the Bureau's website at www.bom.gov.au or call 1300 659 219. The Bureau and State Emergency Service would appreciate this warning being broadcast regularly.

This message has passed through an insecure network.

Please direct all enquiries to the message author.

BOM Alert

From: Flood Information Centre [REDACTED]
To: Flood Information Centre [REDACTED]
Date: Tue, 11 Jan 2011 06:40:24 +1000

BOM: TO::BOM552

RIVER HEIGHT BULLETIN for Brisbane, Pine, Caboolture Rivers and tributaries

Issued at 6.30am on Tuesday, 11 January 2011

Bureau of Meteorology, Brisbane

| Station Name | Time | Height | Trend | Crossing |
|--------------|------|--------|-------|----------|
|--------------|------|--------|-------|----------|

Stanley/Upper Brisbane

| | | | |
|-----------------------------|--------|-------|----------------------|
| Stanley R at Peachester # | 6.22am | 5.52 | F |
| Stanley R at Peachester * | 5.10am | 5.56 | R |
| Stanley R at Woodford * | 5.30am | 6.36 | R 0.04 below bridge |
| Stanley R at Woodford # | 6.22am | 6.40 | R At Level of bridge |
| Stanley R at Woodford # | 5.44am | 6.40 | R At Level of bridge |
| Cooyar Ck at Cooyar Ck # | 6.27am | 8.98 | F |
| Brisbane R at Linville # | 6.27am | 9.44 | R |
| Brisbane R at Devon Hills # | 6.03am | 10.81 | R |
| Emu Ck at Boat Mountain # | 6.07am | 7.66 | R |
| Emu Ck at Boat Mountain * | 5.10am | 5.93 | R |

Brisbane R at Gregor Ck # 6.29am 11.02 R

Brisbane R at Gregor Ck * 5.50am 7.89 R

Cressbrook Ck at Rosentreter's Br # 6.12am 5.68 R

Cressbrook Ck at Rosentreter's Br * 5.29am 5.46 R

Lower Brisbane

Sandy Creek at Sandy Creek Road # 6.27am 2.45 R 0.55 above crossing

Tenthill Ck at Tenthill * 5.46am 5.57 R

Laidley Ck at Mulgowie * 5.00am 6.83 R 0.27 below bridge

Laidley Ck at Showground Weir # 6.28am 8.88 R 4.73 above weir

Laidley Ck at Showground Weir * 5.40am 8.74 R 4.59 above weir

Laidley Ck at Warrego Hwy * 5.00am 6.28 F

Lockyer Ck at Glenore Grove # 6.29am 13.46 F

Lockyer Ck at Lyons Br # 6.26am 16.01 R

Lockyer Ck at Rifle Range Rd * 5.40am 15.78 R

Lockyer Ck at O'Reilly'S Weir # 6.28am 18.10 R 10.44 above weir

Lockyer Ck at O'Reilly'S Weir * 5.30am 18.15 F 10.49 above weir

Brisbane R at Savages Crossing # 6.23am 16.19 R 13.29 above bridge

Brisbane R at Savages Crossing * 5.40am 16.05 F 13.15 above bridge

Brisbane R at Mt Crosby # 6.27am 16.18 F 3.83 above bridge

Bremer R at Adams Br * 5.20am 3.20 R

Bremer R at Spressers Br # 6.10am 5.37 F 0.57 above bridge

Western Ck at Grandchester # 6.24am 3.58 F 1.02 below bridge

Western Ck at Rosewood Wwtp # 6.29am 6.43 S 0.82 below approaches

Bremer R at Rosewood# 6.19am 5.31 F 0.11 above bridge

Bremer R at Rosewood # 6.14am 5.34 F 0.14 above bridge

Bremer R at Five Mile Br Walloon # 6.24am 6.26 F 1.76 above approaches

Bremer R at Walloon Derm * 5.00am 7.43 R

Warrill Ck at Kalbar Weir Hw # 6.27am 78.13 R 3.36 above weir

Warrill Ck at Kalbar Weir Hw * 5.30am 77.54 R 2.77 above weir

Warrill Ck at Kalbar Weir Tw * 5.40am 7.21 R

Warrill Ck at Kalbar 6.00am 8.20 FS 1.20 above bridge

Warrill Ck at Harrisville# 5.17am 4.95 S 0.55 below bridge

Warrill Ck at Harrisville # 6.08am 5.08 F 0.42 below bridge

Warrill Ck at Churchbank Weir # 4.29am 2.71 S 2.71 above weir

Warrill Ck at Churchbank Weir * 3.30am 2.67 R 2.67 above weir

Warrill Ck at Greens Rd Amberley # 6.28am 5.98 S

Warrill Ck at Amberley Dnr * 5.20am 6.78 R

Purga Ck at Peak Crossing # 5.44am 2.26 S 2.84 below bridge

Purga Ck at Loamside * 5.40am 6.89 F

Bremer R at One Mile Br # 5.58am 14.00 R 3.20 below bridge

Bremer R at Hancocks Br Brassall # 6.19am 11.98 R 1.82 below bridge

Bremer R at Ipswich # 6.16am 9.15 R 15.73 below bridge

Ipswich/Brisbane Creeks

Bundamba Ck Harding St Raceview # 6.20am 23.33 F

Bundamba Ck at Bundamba School # 6.11am 13.83 F 2.47 below bridge

Woogaroo Ck at Opossum # 4.56am 21.40 R

Oxley Ck New Beith Rd Greenbank * 5.40am 2.79 F

Oxley Ck Beatty Rd Archerfield # 5.41am 5.46 F

Oxley Ck Corinda High # 6.13am 3.67 R

Oxley Ck Mouth # 3.13am 3.03 R

Enoggera Reservoir # 6.11am 76.01 S 1.64 above full supply

Pine/Caboolture

South Pine R at Cash'S Crossing# 4.00am 2.50 S

North Pine R at Youngs Crossing# 6.27am 5.12 R

Wararba Ck at Wamuran # 6.28am 28.07 R 2.53 below bridge

Caboolture R at Hausmann Lane # 6.29am 6.01 R

Trend

S steady RS rising slowly FS falling slowly

P peak R rising F falling

EP estimated peak RF rising fast FF falling fast

Notes:

1. All heights are in metres.
2. Stations marked with [^] indicate heights above AHD.
3. Data from automatic stations [* or #] have not been checked & may have errors.
4. This product includes data made available to the Bureau by other agencies.

Separate approval may be required to use the data for other purposes. Refer to

Flood Gauge Information for station ownership.

This message has passed through an insecure network.

Please direct all enquiries to the message author.

BOM Alert

From: Flood Information Centre [REDACTED]
To: Flood Information Centre [REDACTED]
Date: Tue, 11 Jan 2011 07:00:27 +1000

BOM:

Australian Government Bureau of Meteorology

Queensland

**FLOOD WARNING FOR THE STANLEY RIVER AND BRISBANE RIVER ABOVE
WIVENHOE DAM**

Issued at 6:56 AM on Tuesday the 11th of January 2011

by the Bureau of Meteorology, Brisbane.

Further widespread rainfall totals of between 30-60mm has been recorded in

the last 6 hours to 6am Tuesday across the upper Brisbane River catchment.

Renewed rises and major flooding continues at Cooyar, Gregor and Cressbrook

Creeks and along the upper Brisbane River at Linville at Devon Hills.

UPPER BRISBANE RIVER:

Further rises and major flooding continues in much of the upper Brisbane

catchment during Tuesday morning. Further rainfall is forecast for the remainder

of today.

STANLEY RIVER:

Renewed rises are occurring with the heavy rainfall in the Stanley River causing minor to moderate flooding at Peachester and Woodford. Rises are also occurring in Kilcoy Creek.

Weather Forecast:

Rain periods with possible thunder. Rain gradually easing later in the day.

Next Issue:

The next warning will be issued by 1pm Tuesday.

Latest River Heights:

| | | |
|---------------------------|---------------|-----------------------|
| Stanley R at Peachester # | 5.52m falling | 06:22 AM TUE 11/01/11 |
|---------------------------|---------------|-----------------------|

| | | |
|-------------------------|--------------|-----------------------|
| Stanley R at Woodford # | 6.42m rising | 06:32 AM TUE 11/01/11 |
|-------------------------|--------------|-----------------------|

Kilcoy Ck d/s Mt Kilcoy Weir # 4.82m steady 06:32 AM TUE 11/01/11

Stanley R at Somerset Dam HW # 103.26m rising 06:29 AM TUE 11/01/11

Cooyar Ck at Cooyar Ck # 8.92m falling 06:33 AM TUE 11/01/11

Brisbane R at Linville # 9.42m falling 06:33 AM TUE 11/01/11

Brisbane R at Devon Hills # 10.81m rising 06:03 AM TUE 11/01/11

Emu Ck at Boat Mountain # 7.66m rising 06:07 AM TUE 11/01/11

Maronghi Ck at Glendale * 2.81m steady 05:00 AM TUE 11/01/11

Brisbane R at Gregor Ck # 11.08m rising 06:32 AM TUE 11/01/11

Cressbrook Ck at Rosentreter's Br # 5.68m rising 06:12 AM TUE 11/01/11

Esk Ck at Falls Rd * 3.71m rising 05:40 AM TUE 11/01/11

Splityard Creek Dam # 162.7m rising 05:54 AM TUE 11/01/11

Brisbane R at Wivenhoe Dam HW # 73.59m rising 06:30 AM TUE 11/01/11

Brisbane R at Wivenhoe Dam TW # 41.9m falling 06:29 AM TUE 11/01/11

*,# denotes automatic station.

Flood Warnings are also available on telephone 1300 659 219 at a low call cost

of 27.5 cents, more from mobile, public and satellite phones.

This message has passed through an insecure network.

Please direct all enquiries to the message author.

BOM Alert

From: Flood Information Centre [REDACTED]
To: Flood Information Centre [REDACTED]
Date: Tue, 11 Jan 2011 07:31:50 +1000

BOM:

Australian Government Bureau of Meteorology

Queensland

FINAL FLASH FLOOD WARNING FOR LOCKYER CREEK

Issued at 7:27 AM on Tuesday the 11th of January 2011

by the Bureau of Meteorology, Brisbane.

Moderate to major flooding continues along Lockyer Creek during Tuesday morning,

where the main flood waters are currently arriving at Lyons Bridge.

A flood warning is current for the Lockyer, Bremer, Warrill and Brisbane River

below Wivenhoe including Brisbane City.

A Severe Weather Warning for heavy rainfall and localised flash flooding is also

current.

Weather Forecast:

Rain periods with possible thunder. Rain gradually easing later in the day.

Next Issue:

This is the final warning. River Height Bulletins will continue to be issued.

Warnings and River Height Bulletins are available at

<http://www.bom.gov.au/qld/flood/> . Flood Warnings are also available on

telephone 1300 659 219 at a low call cost of 27.5 cents, more from mobile,

public and satellite phones.

This message has passed through an insecure network.

Please direct all enquiries to the message author.

BOM Alert

From: Flood Information Centre [REDACTED]
To: Flood Information Centre [REDACTED]
Date: Tue, 11 Jan 2011 07:41:49 +1000

BOM:

Australian Government Bureau of Meteorology

Queensland

Flood Summary

Issued at 7:40 AM on Tuesday the 11th of January 2011

The following Watches/Warnings are current:

FLOOD WARNING FOR COOPER CREEK

FLOOD WARNING FOR THE BURNETT RIVER AND TRIBUTARIES

FLOOD WARNING FOR THE CONDAMINE AND BALONNE RIVER SYSTEM

FLOOD WARNING FOR THE FITZROY RIVER BASIN

FLOOD WARNING FOR THE LOCKYER, BREMER, WARRILL AND BRISBANE RIVER
BELOW WIVENHOE

INCLUDING BRISBANE CITY

FLOOD WARNING FOR THE MARY RIVER

FLOOD WARNING FOR THE MOONIE RIVER

FLOOD WARNING FOR THE STANLEY RIVER AND BRISBANE RIVER ABOVE
WIVENHOE DAM

FLOOD WARNING FOR THE SUNSHINE COAST RIVERS

FLOOD WARNING FOR THE WEIR AND MACINTYRE RIVERS

See flood warnings for more detail at: www.bom.gov.au/qld/flood .

Additional information:

Other flooding includes:

Gulf Rivers: Moderate flooding easing on Magnificent Creek at Kowanyama. Minor

flooding rising slowly along the Norman River between Yappar River and

Normanton.

Diamantina River: Minor flooding is easing between Diamantina Lakes and Monkira.

Warrego River: Minor flooding continues between Cunnamulla and Rocky.

Logan-Albert Rivers: Minor to moderate flooding continues along the Logan River

through to to Maclean Bridge. Minor flooding is rising along the Albert River

between Benobble and Wolffdene. Moderate flooding rising in Teviot Brook at

Boonah.

Kolan River: Minor flooding slowly easing at Fred Haigh Dam.

Burdekin River: Minor flooding easing slowly in the Suttor River at St Anns.

Warnings and River Height Bulletins are available at

<http://www.bom.gov.au/qld/flood/> . Flood Warnings are also available on

telephone 1300 659 219 at a low call cost of 27.5 cents, more from mobile,

public and satellite phones.

This message has passed through an insecure network.

Please direct all enquiries to the message author.

BOM Alert

From: Flood Information Centre [REDACTED]
To: Flood Information Centre [REDACTED]
Date: Tue, 11 Jan 2011 08:00:39 +1000

BOM:

Australian Government Bureau of Meteorology

Queensland

Transmitters in the areas of the Southeast Coast District and the Darling Downs and Granite Belt District southeast of Dalby to Goondiwindi are REQUESTED TO USE THE STANDARD EMERGENCY WARNING SIGNAL BEFORE BROADCASTING. TOP PRIORITY FOR IMMEDIATE BROADCAST

SEVERE WEATHER WARNING

for heavy rainfall leading to localised flash flooding and worsening the existing river flood situation

For people in the Southeast Coast District and the Darling Downs and Granite Belt District southeast of Dalby to Goondiwindi.

Issued at 8:00 am on Tuesday 11 January 2011

Synoptic Situation: At 8am AEST, an upper level low was located over the Darling Downs and Granite Belt district and is forecast to move to the southwest and slowly weaken.

Heavy rain areas and thunderstorms are expected to continue through the Southeast Coast and Darling Downs and Granite Belt today. Heavy falls will lead to localised flash flooding and will worsen existing river flooding.

Currently, an intense slow moving band of rainfall extends from about Maroochydore to Warwick. Rainfall rates in this band are reaching 80 to 100 mm per hour.

Flood warnings are current for various rivers and streams in these districts.

Please refer to these products [www.bom.gov.au/qld] for further information.

The Severe Weather Warning for the southern parts of Wide Bay and Burnett and eastern Maranoa and Warrego and northwestern parts of Darling Downs and Granite Belt districts has been cancelled. However showers and thunderstorms will persist through the area and may produce heavy rainfall in these parts.

The State Emergency Service advises that people in the affected area should:

• avoid driving, walking or riding through flood waters

• take care on the roads, especially in heavy downpours

• avoid swimming in swollen rivers and creeks

Contact the SES on 132 500 for emergency assistance if required.

The next warning is due to be issued by 11am Tuesday.

This warning is also available through TV and Radio broadcasts; the Bureau's website at www.bom.gov.au or call 1300 659 219. The Bureau and State Emergency Service would appreciate this warning being broadcast regularly.

This message has passed through an insecure network.

Please direct all enquiries to the message author.

BOM Alert

From: Flood Information Centre [REDACTED]
To: Flood Information Centre [REDACTED]
Date: Tue, 11 Jan 2011 09:31:02 +1000

BOM:

Australian Government Bureau of Meteorology

Queensland

PRIORITY

FLOOD WARNING FOR THE LOCKYER, BREMER, WARRILL AND BRISBANE RIVER
BELOW WIVENHOE

INCLUDING BRISBANE CITY

Issued at 9:28 AM on Tuesday the 11th of January 2011

by the Bureau of Meteorology, Brisbane.

Continuing heavy rainfall in the Lockyer Creek catchment is causing very fast

rises along Tenthill Creek.

The main flood waters in the Lockyer Creek are now arriving at Lyons Bridge,

with strong stream rises during Tuesday and levels of above 17 metres are

forecast.

Wivenhoe dam is providing significant mitigation of upper Brisbane floods. River

flows from the Bremer and Lockyer catchments combined with releases from

Wivenhoe dam will increase levels in Brisbane during Tuesday.

At the Brisbane City Gauge, minor flood levels of about 2.1 metres are expected

with the afternoon high tide on Tuesday and moderate flood levels of 2.6 metres

with the overnight high tide. Further rises to 3.5 metres (major) is expected

with the high tide on Wednesday afternoon with higher levels likely on Thursday.

LOCKYER CREEK:

Very heavy rainfall is continuing in the Lockyer Creek catchment and further

very fast rises are being observed along Tenthill Creek this morning. Renewed

rises are likely in the lower catchment during Tuesday prolonging major

flooding. The Lockyer Creek at Glenore Grove peaked at 14.60 metres at 11:30pm,

which is 0.3 metres below the 1974 flood. Renewed rises are likely at Glenore

Grove today with a return to above 14 metres.

The main flood peak from Monday is currently approaching Lyons Bridge, with strong stream rises expected in the next few hours. A peak is expected above 17 metres at Lyons Bridge later today.

BREMER RIVER:

The Bremer River at Walloon has exceeded the moderate flood level. The Bremer River at Rosewood peaked at 5.8 metres around midnight Monday but renewed rises are expected as rainfall continues.

The Bremer River at Ipswich is expected to reach about 16 metres during

Wednesday. Higher levels are expected.

WARRILL CREEK

Further rises are likely today as rainfall continues.

MIDDLE AND LOWER BRISBANE:

Moderate flooding will continue to rise at Savages Crossing and at Mt Crosby

Weir.

At the Brisbane City Gauge (lower end of Edward Street and at Thornton Street),

minor flood levels of about 2.1 metres are expected with the afternoon high tide

on Tuesday and moderate flood levels of 2.6 metres with the overnight high tide.

Higher flood levels to 3.5 metres (major) are expected with the high tide on

Wednesday afternoon. Levels above 3.5 metres are expected on Thursday.

(3.5 metres at the Brisbane City gauge is about 2.5 metres higher than the

highest tide of the year at this location).

Predicted River Heights/Flows:

Ipswich: Reach at least 16 metres (major) during Wednesday; further rises.

Moggill: Reach at least 15 metres (moderate) during Wednesday; further

rises.

Jindalee: Reach at least 9 metres (moderate) late Wednesday; further rises.

Brisbane City: Reach about 2.6 metres (moderate) with the overnight high tide tonight. Reach 3.5 metres (major) with the high tides on Wednesday. Higher levels are expected on Thursday with the high tides.

(3.5 metres at the Brisbane City gauge is about 2 metres higher than the highest tide of the year at this location).

Further rises are expected at all four locations with continued rainfall.

Next Issue:

The next warning will be issued at about 3:30pm Tuesday.

Latest River Heights:

Flagstone Ck at Brown-Zirbels Rd * 3.53m rising 05:40 AM TUE 11/01/11

Sandy Creek at Sandy Creek Road # 2.9m rising 06:56 AM TUE 11/01/11

Ma Ma Ck at Harm's * 2.96m rising 05:40 AM TUE 11/01/11

Tenthill Ck at Tenthill * 5.57m rising 05:46 AM TUE 11/01/11

Laidley Ck at Mulgowie * 6.83m rising 05:00 AM TUE 11/01/11

Laidley Ck at Laidley 8.7m falling slowly 10:00 PM MON 10/01/11

Laidley Ck at Showground Weir * 8.74m rising 05:40 AM TUE 11/01/11

Laidley Ck at Warrego Hwy * 6.28m rising 05:00 AM TUE 11/01/11

Lockyer Ck at Glenore Grove # 13.48m rising 06:52 AM TUE 11/01/11

Lockyer Ck at Lyons Br # 16.09m rising 06:56 AM TUE 11/01/11

Lockyer Ck at Rifle Range Rd * 15.78m rising 05:40 AM TUE 11/01/11

Brisbane R at Lowood Pump Stn # 16.21m rising 06:55 AM TUE 11/01/11

Brisbane R at Savages Crossing # 16.17m rising 06:53 AM TUE 11/01/11

Brisbane R at Burtons Br # 12.92m rising 06:50 AM TUE 11/01/11

Brisbane R at Mt Crosby # 16.23m rising 06:36 AM TUE 11/01/11

Brisbane R at Colleges Crossing # 14.51m rising 06:57 AM TUE 11/01/11

Bremer R at Rosewood # 5.32m rising 06:41 AM TUE 11/01/11

Warrill Ck at Amberley DNR * 6.78m rising 05:20 AM TUE 11/01/11

| | | |
|-----------------------------|---------------|-----------------------|
| Bremer R at Ipswich # | 9.25m rising | 06:50 AM TUE 11/01/11 |
| Brisbane R at Moggill # | 7.62m rising | 06:45 AM TUE 11/01/11 |
| Brisbane R at Jindalee Br # | 4.75m rising | 06:26 AM TUE 11/01/11 |
| Brisbane R at City Gauge # | 0.95m falling | 06:30 AM TUE 11/01/11 |

*automatic station

Warnings and River Height Bulletins are available at

<http://www.bom.gov.au/qld/flood/> . Flood Warnings are also available on

telephone 1300 659 219 at a low call cost of 27.5 cents, more from mobile,

public and satellite phones.

This message has passed through an insecure network.

Please direct all enquiries to the message author.

BOM Alert

From: Flood Information Centre [REDACTED]
To: Flood Information Centre [REDACTED]
Date: Tue, 11 Jan 2011 09:40:22 +1000

BOM: TO::BOM552

RIVER HEIGHT BULLETIN for Brisbane, Pine, Caboolture Rivers and tributaries

Issued at 9.31am on Tuesday, 11 January 2011

Bureau of Meteorology, Brisbane

| Station Name | Time | Height | Trend | Crossing |
|--------------|------|--------|-------|----------|
|--------------|------|--------|-------|----------|

Stanley/Upper Brisbane

| | | | | |
|-----------------------------|--------|-------|---|-------------------|
| Stanley R at Peachester # | 9.28am | 6.38 | R | |
| Stanley R at Peachester * | 8.40am | 6.11 | R | |
| Stanley R at Woodford * | 8.20am | 6.49 | R | 0.09 above bridge |
| Stanley R at Woodford # | 9.28am | 6.64 | R | 0.24 above bridge |
| Stanley R at Woodford # | 9.26am | 6.66 | R | 0.26 above bridge |
| Cooyar Ck at Cooyar Ck # | 9.27am | 8.00 | F | |
| Cooyar Ck at Cooyar Ck * | 8.10am | 7.88 | S | |
| Brisbane R at Linville # | 9.27am | 8.88 | F | |
| Brisbane R at Linville * | 9.00am | 9.16 | F | |
| Brisbane R at Devon Hills # | 9.25am | 10.83 | F | |

Emu Ck at Boat Mountain # 9.19am 10.96 F

Emu Ck at Boat Mountain * 8.00am 10.91 R

Brisbane R at Gregor Ck # 9.29am 12.96 R

Brisbane R at Gregor Ck * 8.30am 10.18 R

Cressbrook Ck at Rosentreter's Br # 9.19am 6.06 S

Cressbrook Ck at Rosentreter's Br * 8.30am 6.06 R

Lower Brisbane

Sandy Creek at Sandy Creek Road # 9.28am 4.50 F 2.60 above crossing

Tenthill Ck at Tenthill * 8.30am 7.25 R

Laidley Ck at Laidley 8.00am 8.60 R 0.10 above bridge

Laidley Ck at Showground Weir # 9.22am 9.24 F 5.09 above weir

Laidley Ck at Showground Weir * 8.20am 9.23 R 5.08 above weir

Laidley Ck at Warrego Hwy * 8.00am 6.49 R

Lockyer Ck at Glenore Grove # 9.27am 13.82 R

Lockyer Ck at Lyons Br # 9.27am 16.61 R

Lockyer Ck at Rifle Range Rd * 8.20am 16.22 R

Lockyer Ck at O'Reilly'S Weir # 9.27am 19.08 R 11.42 above weir

Lockyer Ck at O'Reilly'S Weir * 8.30am 18.88 R 11.22 above weir

Brisbane R at Savages Crossing # 9.23am 18.23 R 15.33 above bridge

Brisbane R at Savages Crossing * 8.20am 17.28 R 14.38 above bridge

Brisbane R at Mt Crosby # 9.12am 16.66 4.31 above bridge

| | | | | |
|------------------------------------|--------|-------|---|-----------------------|
| Bremer R at Adams Br # | 9.27am | 3.77 | R | |
| Bremer R at Adams Br * | 8.30am | 3.38 | R | |
| Bremer R at Stokes Crossing # | 9.28am | 3.90 | R | 2.80 above causeway |
| Bremer R at Spresters Br # | 9.22am | 5.42 | R | 0.62 above bridge |
| Western Ck at Grandchester # | 9.26am | 5.28 | F | 0.68 above bridge |
| Western Ck at Rosewood Wwtp # | 9.30am | 7.53 | R | 0.28 above approaches |
| Bremer R at Rosewood# | 9.27am | 5.61 | R | 0.41 above bridge |
| Bremer R at Rosewood # | 9.29am | 5.66 | R | 0.46 above bridge |
| Bremer R at Five Mile Br Walloon # | 9.24am | 6.02 | R | 1.52 above approaches |
| Bremer R at Walloon Derm * | 8.00am | 7.28 | F | |
| Warrill Ck at Kalbar Weir Hw # | 9.24am | 78.17 | F | 3.40 above weir |
| Warrill Ck at Kalbar Weir Hw * | 8.15am | 78.37 | F | 3.60 above weir |

Warrill Ck at Kalbar Weir Tw * 8.20am 8.06 F

Warrill Ck at Kalbar 9.00am 9.20 RF 2.20 above bridge

Warrill Ck at Harrisville# 8.18am 4.90 F 0.60 below bridge

Warrill Ck at Harrisville # 9.02am 5.06 S 0.44 below bridge

Warrill Ck at Churchbank Weir # 8.03am 2.71 R 2.71 above weir

Warrill Ck at Churchbank Weir * 8.00am 2.64 F 2.64 above weir

Warrill Ck at Greens Rd Amberley # 9.29am 6.12 R

Warrill Ck at Amberley Dnr * 8.10am 6.86 S

Purga Ck at Peak Crossing # 9.19am 2.31 R 2.79 below bridge

Purga Ck at Loamside * 8.20am 6.44 F

Bremer R at One Mile Br # 9.19am 14.10 R 3.10 below bridge

Bremer R at Hancocks Br Brassall # 9.21am 12.38 R 1.42 below bridge

Bremer R at Ipswich # 9.23am 9.65 R 15.23 below bridge

Ipswich/Brisbane Creeks

Bundamba Ck Harding St Raceview # 8.49am 23.18 S

Bundamba Ck at Bundamba School # 7.59am 13.78 F 2.52 below bridge

Woogaroo Ck at Opossum # 9.01am 21.25 F

Oxley Ck New Beith Rd Greenbank * 8.00am 2.71 S

Oxley Ck Beatty Rd Archerfield # 8.14am 5.30

Oxley Ck Corinda High # 8.08am 3.77 R

Oxley Ck Mouth # 9.03am 3.18 R

Enoggera Reservoir # 9.29am 76.06 S 1.69 above full supply

Enoggera Ck Bancroft Pk K Grove # 9.02am 3.06 R

Pine/Caboolture

Samford Ck at Samford Village# 9.16am 2.35 R

S Pine R at Drapers Crossing # 9.27am 3.62 R

South Pine R at Cash'S Crossing# 9.18am 3.10 R

North Pine R at Youngs Crossing# 9.26am 7.07 R

Burpengary Ck at Dale St # 9.24am 9.64 R

Wararba Ck at Wamuran # 9.29am 28.82 F 1.78 below bridge

Caboolture R at Hausmann Lane # 9.27am 11.76 R

Caboolture R at Hausmann Lane * 8.20am 11.36 R

Caboolture R at Caboolture Wtp # 9.28am 8.84 F

Trend

S steady RS rising slowly FS falling slowly

P peak R rising F falling

EP estimated peak RF rising fast FF falling fast

Notes:

1. All heights are in metres.

2. Stations marked with [^] indicate heights above AHD.
3. Data from automatic stations [* or #] have not been checked & may have errors.
4. This product includes data made available to the Bureau by other agencies.

Separate approval may be required to use the data for other purposes. Refer to

Flood Gauge Information for station ownership.

This message has passed through an insecure network.

Please direct all enquiries to the message author.

BOM Alert

From: Flood Information Centre [REDACTED]
To: Flood Information Centre [REDACTED]
Date: Tue, 11 Jan 2011 11:58:48 +1000

BOM:

Australian Government Bureau of Meteorology

Queensland

Transmitters in the areas of the Southeast Coast District and the Darling Downs and Granite Belt District southeast of Dalby to Goondiwindi are REQUESTED TO USE THE STANDARD EMERGENCY WARNING SIGNAL BEFORE BROADCASTING.
TOP PRIORITY FOR IMMEDIATE BROADCAST

SEVERE WEATHER WARNING

for heavy rainfall leading to flash flooding and worsening the existing river flood situation

For people in the Southeast Coast District and the Darling Downs and Granite Belt District southeast of Dalby to Goondiwindi.

Issued at 11:00 am on Tuesday 11 January 2011

Synoptic Situation: At 10am AEST, an upper level low was located over the southern Queensland interior and is forecast to move to the southwest and continue weakening. A surface trough lying over the Southeast Queensland Coast is expected to weaken overnight.

Heavy rain areas and local thunderstorms are expected to continue through the Southeast Coast and Darling Downs and Granite Belt today. Heavy falls will lead

to flash flooding and will worsen existing river flooding.

Currently, an intense band of rainfall extends from about Tewantin to Warwick.

Recent rainfall rates in this band have reached 80 to 100 mm per hour, particularly about the Brisbane and Lockyer Valleys. This rainfall band is expected to remain slow moving during the remainder of today.

Flood warnings are current for various rivers and streams in these districts.

Please refer to these products [www.bom.gov.au/qld] for further information.

The State Emergency Service advises that people in the affected area should:

• avoid driving, walking or riding through flood waters

• take care on the roads, especially in heavy downpours

• avoid swimming in swollen rivers and creeks

Contact the SES on 132 500 for emergency assistance if required.

The next warning is due to be issued by 2pm AEST Tuesday.

This warning is also available through TV and Radio broadcasts; the Bureau's website at www.bom.gov.au or call 1300 659 219. The Bureau and State Emergency Service would appreciate this warning being broadcast regularly.

This message has passed through an insecure network.

Please direct all enquiries to the message author.

BOM Alert

From: Flood Information Centre
To: Flood Information Centre
Date: Tue, 11 Jan 2011 12:36:16 +1000

BOM: TO::BOM552

RIVER HEIGHT BULLETIN for Brisbane, Pine, Caboolture Rivers and tributaries

Issued at 12.30pm on Tuesday, 11 January 2011

Bureau of Meteorology, Brisbane

| Station Name | Time | Height | Trend | Crossing |
|--------------|------|--------|-------|----------|
|--------------|------|--------|-------|----------|

Stanley/Upper Brisbane

| | | | | |
|-----------------------------|---------|------|---|-------------------|
| Stanley R at Peachester # | 12.22pm | 7.88 | R | |
| Stanley R at Peachester * | 11.40am | 7.74 | R | |
| Stanley R at Woodford * | 11.40am | 7.16 | R | 0.76 above bridge |
| Stanley R at Woodford # | 12.28pm | 7.62 | R | 1.22 above bridge |
| Stanley R at Woodford # | 12.29pm | 7.64 | R | 1.24 above bridge |
| Cooyar Ck at Cooyar Ck # | 12.27pm | 6.86 | F | |
| Cooyar Ck at Cooyar Ck * | 11.50am | 7.11 | F | |
| Brisbane R at Linville # | 12.24pm | 7.38 | F | |
| Brisbane R at Linville * | 11.50am | 7.61 | F | |
| Brisbane R at Devon Hills # | 12.28pm | 9.51 | F | |
| Emu Ck at Boat Mountain # | 12.19pm | 9.32 | | |

Emu Ck at Boat Mountain * 11.30am 9.95 F
 Brisbane R at Gregor Ck # 12.29pm 13.12 F
 Brisbane R at Gregor Ck * 11.40am 10.26 F
 Cressbrook Ck at Rosentreter's Br # 12.19pm 6.08 S
 Cressbrook Ck at Rosentreter's Br * 11.35am 6.08 F
 Lower Brisbane
 Sandy Creek at Sandy Creek Road # 12.28pm 3.15 R 1.25 above crossing
 Tenthill Ck at Tenthill * 11.47am 6.50 F
 Laidley Ck at Showground Weir # 12.28pm 9.24 F 5.09 above weir
 Laidley Ck at Showground Weir * 11.20am 9.25 R 5.10 above weir
 Laidley Ck at Warrego Hwy * 11.40am 7.04 R
 Lockyer Ck at Glenore Grove # 12.27pm 14.86 R
 Lockyer Ck at Lyons Br # 12.00pm 17.09 R
 Lockyer Ck at Rifle Range Rd * 11.30am 16.59 R
 Lockyer Ck at O'Reilly's Weir # 12.29pm 20.58 R 12.92 above weir
 Lockyer Ck at O'Reilly's Weir * 10.14am 19.65 R 11.99 above weir
 Brisbane R at Savages Crossing # 12.23pm 19.31 R 16.41 above bridge
 Brisbane R at Savages Crossing * 11.40am 19.20 R 16.30 above bridge
 Brisbane R at Mt Crosby # 11.25am 17.63 5.28 above bridge
 Bremer R at Adams Br # 12.27pm 4.95 R
 Bremer R at Adams Br * 11.30am 4.83 F
 Bremer R at Stokes Crossing # 12.26pm 5.00 R 3.90 above causeway
 Bremer R at Spressers Br # 12.10pm 6.82 R 2.02 above bridge

Western Ck at Grandchester # 11.54am 4.98 F 0.38 above bridge
 Western Ck at Rosewood Wwtp # 12.29pm 7.73 S 0.48 above approaches
 Bremer R at Rosewood# 12.11pm 7.21 R 2.01 above bridge
 Bremer R at Rosewood # 12.17pm 7.22 R 2.02 above bridge
 Bremer R at Five Mile Br Walloon # 12.27pm 7.20 R 2.70 above approaches
 Bremer R at Walloon Derm * 11.00am 8.14 R
 Warrill Ck at Kalbar Weir Hw # 12.27pm 79.57 R 4.80 above weir
 Warrill Ck at Kalbar Weir Hw * 11.45am 79.28 R 4.51 above weir
 Warrill Ck at Kalbar Weir Tw * 11.45am 8.41 R
 Warrill Ck at Kalbar 11.30am 9.70 R 2.70 above bridge
 Warrill Ck at Harrisville# 12.13pm 5.05 R 0.45 below bridge
 Warrill Ck at Harrisville # 12.02pm 5.18 R 0.32 below bridge
 Warrill Ck at Churchbank Weir # 12.27pm 2.77 R 2.77 above weir
 Warrill Ck at Churchbank Weir * 11.45am 2.69 R 2.69 above weir
 Warrill Ck at Greens Rd Amberley # 12.28pm 6.48 S
 Warrill Ck at Amberley Dnr * 11.40am 7.25 R
 Purga Ck at Peak Crossing # 12.21pm 2.61 R 2.49 below bridge
 Purga Ck at Loamside * 11.40am 6.37 R
 Bremer R at One Mile Br # 12.26pm 14.85 R 2.35 below bridge
 Bremer R at Hancocks Br Brassall # 12.26pm 13.33 R 0.47 below bridge
 Bremer R at Ipswich # 12.30pm 10.55 F 14.33 below bridge
 Brisbane R at Jindalee Br # 12.23pm 5.65 R
 Brisbane R at City Gauge # 12.09pm 1.71 R

Ipswich/Brisbane Creeks

Deebing Creek at Churchill # 12.26pm 2.35 R
 Bundamba Ck Harding St Raceview # 12.26pm 24.13 R
 Bundamba Ck at Blackstone Br # 12.13pm 18.29 R 2.51 below bridge
 Bundamba Ck at Bundamba School # 11.45am 14.53 R 1.77 below bridge
 Woogaroo Ck at Opossum # 12.29pm 22.35 R
 Oxley Ck New Beith Rd Greenbank * 11.30am 2.70 R
 Oxley Ck Beatty Rd Archerfield # 12.01pm 5.06 F
 Oxley Ck Corinda High # 11.47am 3.97 R
 Oxley Ck Mouth # 12.16pm 3.73 R
 Norman Ck Joachim St Holland Pk # 11.07am 16.72 R
 Enoggera Reservoir # 12.29pm 76.89 S 2.52 above full supply
 Enoggera Ck Bancroft Pk K Grove # 11.38am 3.72 R
 Kedron Bk Osborne Rd Mitchelton # 11.40am 32.01 R
 Zillman Waterhole at F.Sleeman Pk #12.28pm 3.06 R
 Cabbage Tree Ck at Old N'N Rd # 11.40am 43.61 F
 Lt Cabbage Tree Ck Stringybark Dr #12.22pm 27.99 R
 Pine/Caboolture
 Samford Ck at Samford Village# 12.29pm 4.50 R
 S Pine R at Drapers Crossing # 12.28pm 6.68 R
 South Pine R at Cash'S Crossing# 12.26pm 5.15 R
 South Pine R at Normanby Way# 12.26pm 2.39 R
 North Pine R at Youngs Crossing# 12.26pm 11.07 R

Burpengary Ck at Dale St # 12.15pm 11.14 R
 Wararba Ck at Wamuran # 12.29pm 30.47 R 0.13 below bridge
 Caboolture R at Hausmann Lane # 12.28pm 12.26 F
 Caboolture R at Hausmann Lane * 11.30am 12.65 F
 Caboolture R at Caboolture Wtp # 12.28pm 10.79 F

Trend

S steady RS rising slowly FS falling slowly

P peak R rising F falling

EP estimated peak RF rising fast FF falling fast

Notes:

1. All heights are in metres.
2. Stations marked with [^] indicate heights above AHD.
3. Data from automatic stations [* or #] have not been checked & may have errors.
4. This product includes data made available to the Bureau by other agencies.

Separate approval may be required to use the data for other purposes. Refer to

Flood Gauge Information for station ownership.

This message has passed through an insecure network.

Please direct all enquiries to the message author.

BOM Alert

From: Flood Information Centre [REDACTED]
To: Flood Information Centre [REDACTED]
Date: Tue, 11 Jan 2011 13:05:37 +1000

BOM:

Australian Government Bureau of Meteorology

Queensland

FLOOD WARNING FOR THE STANLEY RIVER AND BRISBANE RIVER ABOVE
WIVENHOE DAM

Issued at 1:02 PM on Tuesday the 11th of January 2011

by the Bureau of Meteorology, Brisbane.

Further very heavy rainfall totals of between 100-150mm has been recorded

in the 3 hours to 1pm Tuesday across the Stanley catchment above Somerset Dam.

Fast rises and minor to moderate flooding is occurring along the Stanley River

with higher levels expected. Moderate to major flooding has commenced to ease in

Cooyar, Gregor and Cressbrook Creeks. Major flooding continues along the upper

Brisbane River at Linville at Devon Hills where river levels are also easing.

UPPER BRISBANE RIVER:

The rainfall has eased in the upper Brisbane catchment above Wivenhoe Dam with

less than 20mm recorded in the 3 hours to 1pm Tuesday. Whilst moderate to major

flooding is generally easing, further rainfall is forecast for the remainder of

today.

STANLEY RIVER:

Fast rises and minor to moderate flooding is occurring in the Stanley River

above Somerset Dam, with further rises and higher flood levels expected during

Tuesday afternoon with the continued very heavy rainfall. Creek rises continue

in Kilcoy Creek.

Weather Forecast:

Rain periods with possible thunder. Moderate to heavy falls possible.

Next Issue:

The next warning will be issued at about 5pm Tuesday.

Latest River Heights:

Stanley R at Peachester # 8.1m rising 12:55 PM TUE 11/01/11

Stanley R at Woodford # 7.94m rising 12:56 PM TUE 11/01/11

Kilcoy Ck d/s Mt Kilcoy Weir # 5.6m steady 12:54 PM TUE 11/01/11

Stanley R at Somerset Dam HW # 103.7m rising 12:53 PM TUE 11/01/11

Cooyar Ck at Cooyar Ck # 6.78m falling 12:39 PM TUE 11/01/11

Brisbane R at Linville # 7.16m falling 12:57 PM TUE 11/01/11

Brisbane R at Devon Hills # 9.33m falling 12:46 PM TUE 11/01/11

Emu Ck at Boat Mountain # 9.32m steady 12:19 PM TUE 11/01/11

Maronghi Ck at Glendale * 3.55m falling 11:50 AM TUE 11/01/11

Brisbane R at Gregor Ck # 12.96m falling 12:56 PM TUE 11/01/11

Cressbrook Ck at Rosentreter's Br # 6.1m rising 12:54 PM TUE 11/01/11

Esk Ck at Falls Rd * 5.3m falling 11:40 AM TUE 11/01/11

Splityard Creek Dam # 162.25m rising 12:57 PM TUE 11/01/11

Brisbane R at Wivenhoe Dam HW # 74.23m falling 12:54 PM TUE 11/01/11

Brisbane R at Wivenhoe Dam TW # 44.8m rising 12:56 PM TUE 11/01/11

*,# denotes automatic station.

Flood Warnings are also available on telephone 1300 659 219 at a low call cost

of 27.5 cents, more from mobile, public and satellite phones.

This message has passed through an insecure network.

Please direct all enquiries to the message author.

BOM Alert

From: Flood Information Centre
To: Flood Information Centre
Date: Tue, 11 Jan 2011 14:00:23 +1000

BOM:

Australian Government Bureau of Meteorology

Queensland

Transmitters in the areas of the Southeast Coast District and the Darling Downs and Granite Belt District southeast of Dalby to Goondiwindi are REQUESTED TO USE THE STANDARD EMERGENCY WARNING SIGNAL BEFORE BROADCASTING.

TOP PRIORITY FOR IMMEDIATE BROADCAST

SEVERE WEATHER WARNING

for heavy rainfall leading to flash flooding and worsening the existing river flood situation

For people in the Southeast Coast District and the Darling Downs and Granite Belt District southeast of Dalby to Goondiwindi.

Issued at 2:00 pm on Tuesday 11 January 2011

Synoptic Situation: At 2 pm AEST, a surface trough was lying over the Southeast Queensland Coast and is expected to weaken overnight.

Heavy rain areas and local thunderstorms are expected to continue through the Southeast Coast and the Darling Downs and Granite Belt District southeast of Dalby to Goondiwindi. Heavy falls will lead to flash flooding and will worsen existing river flooding.

Currently the focus of the heaviest rainfall extends from about Maroochydore to Warwick, including the Brisbane and Lockyer Valleys and Ipswich area. Recent rainfall rates in this band have reached 60 to 80 mm per hour. This rainfall band is expected to remain slow moving during the remainder of today and gradually weaken overnight and during Wednesday morning.

Flood warnings are current for various rivers and streams in these districts.

Please refer to these products [www.bom.gov.au/qld] for further information.

The State Emergency Service advises that people in the affected area should:

• avoid driving, walking or riding through flood waters

• take care on the roads, especially in heavy downpours

• avoid swimming in swollen rivers and creeks

Contact the SES on 132 500 for emergency assistance if required.

The next warning is due to be issued by 5 pm AEST Tuesday.

This warning is also available through TV and Radio broadcasts; the Bureau's website at www.bom.gov.au or call 1300 659 219. The Bureau and State Emergency Service would appreciate this warning being broadcast regularly.

This message has passed through an insecure network.

Please direct all enquiries to the message author.

Brisbane River Flood following 2:30 discussion BoM

From:

Cc:

Date: Tue, 11 Jan 2011 14:45:03 +1000

Place: Flood_Information_Centre

SITREP 14:17 11/01/11

The BoM have communicated to us the following:

The predicted height at the high tide tomorrow is 4.5 mAHD at the Brisbane City Gauge.

Based on the likely Wivenhoe release strategy (6,400 m3/s this evening 8:00pm), the predicted peak flood height at the Brisbane City Gauge is between 5 mAHD and 5.5 mAHD, (10,500 m3/s). The timing of this predicted peak is 3AM Thursday morning 13/01/11.

This flood event will be similar to the 1974 flood.

The BoM further advised that they are briefing the Premier accordingly.

Ken Morris
Director of FIC

Flood Information Centre
Level 1 - South Tower Green Square
505 St Paul's Terrace
FORTITUDE VALLEY QLD 4006
Telephone: [REDACTED]

Facsimile

Email:

Flood_Information_Centre - Brisbane River Flood following 2:30 discussion BoM

From: Flood_Information_Centre
To: LDCC
Date: Tuesday, 11 January 2011 2:45:03 pm
Subject: Brisbane River Flood following 2:30 discussion BoM
CC: Cowie, John; DM DutyOfficers; FIC-Standby-Duty-Officers;
 Flood_Information_Centre; Jensen, Colin

+++++*
 Place: Flood_Information_Centre
 ++++*
 SITREP 14:17 11/01/11

The BoM have communicated to us the following:

The predicted height at the high tide tomorrow is 4.5 mAHd at the Brisbane City Gauge.

Based on the likely Wivenhoe release strategy (6,400 m3/s this evening 8:00pm), the predicted peak flood height at the Brisbane City Gauge is between 5 mAHd and 5.5 mAHd, (10,500 m3/s). The timing of this predicted peak is 3AM Thursday morning 13/01/11.

This flood event will be similar to the 1974 flood.

The BoM further advised that they are briefing the Premier accordingly.

Ken Morris
 Director of FIC

 Flood Information Centre
 Level 1 - South Tower Green Square
 505 St Paul's Terrace
 FORTITUDE VALLEY QLD 4006

505 St Paul's Terrace
FORTITUDE VALLEY QLD 4006



BOM Alert

From: Flood Information Centre [REDACTED]
To: Flood Information Centre [REDACTED]
Date: Tue, 11 Jan 2011 15:25:36 +1000

BOM:

Australian Government Bureau of Meteorology

Queensland

PRIORITY - FOR IMMEDIATE BROADCAST

FLOOD WARNING FOR THE LOCKYER, BREMER, WARRILL AND BRISBANE RIVER
BELOW WIVENHOE

INCLUDING BRISBANE CITY

Issued at 3:24 PM on Tuesday the 11th of January 2011

by the Bureau of Meteorology, Brisbane.

At the Brisbane City Gauge (lower end of Edward Street and at Thornton Street),

moderate flood levels of about 3 metres are expected with the overnight high

tide. Higher flood levels to 4.5 metres (major) are expected with the high tide

on Wednesday afternoon. River rises will continue into Thursday with levels

higher than 1974 expected. The 1974 flood peak was 5.45 metres at the Brisbane

City gauge.

Wivenhoe dam is providing significant mitigation of upper Brisbane floods. River

flows from the Bremer and Lockyer catchments combined with releases from

Wivenhoe dam will continue to increase flood levels in Brisbane during the next

36 hours.

The main flood waters in the Lockyer Creek are now arriving at Lyons Bridge and are continuing to increase near record levels.

LOCKYER CREEK:

Very heavy rainfall is continuing in the Lockyer Creek catchment and further very fast rises are being observed. Major flooding will continue this evening throughout the catchment. Flood levels at Glenore Grove were at 15.2 metres at 3pm, which is 0.3 metres above the 1974 flood level.

The main flood waters in the Lockyer Creek are now arriving at Lyons Bridge and are continuing to increase near record levels.

BREMER RIVER:

The Bremer River at Walloon has exceeded the major flood level. The Bremer River at Rosewood is expected to reach at least 7.6 metres during the next few hours.

The Bremer River at Ipswich is expected to reach about 22 metres during Wednesday. Higher levels are possible as rainfall continues.

WARRILL CREEK

Further rises are likely today as rainfall continues with major flooding from Kalbar to Amberley continuing. Levels at Amberley are expected to reach at least

7.5 metres overnight.

MIDDLE AND LOWER BRISBANE:

Moderate flooding will continue to rise at Savages Crossing and at Mt Crosby

Weir with major flood levels exceeded overnight.

At the Brisbane City Gauge (lower end of Edward Street and at Thornton Street),

moderate flood levels of about 3 metres are expected tonight with the 3am high

tide. Higher flood levels to 4.5 metres (major) are expected with the high tide

on Wednesday afternoon (3pm). River rises will continue into Thursday with

levels higher than 1974 expected. The 1974 flood peak was 5.45 metres at the

Brisbane City gauge.

Predicted River Heights/Flows:

Ipswich: Reach at least 22 metres (major) during Wednesday; further rises.

Moggill: Reach at least 22 metres (moderate) during Wednesday; further rises.

Jindalee: Reach at least 14.2 metres (moderate) late Wednesday; further rises.

Brisbane City: Reach about 3 metres (moderate) around 3am Wednesday.

Reach 4.5 metres (major) at 3pm Wednesday.

Exceed 1974 flood level (5.45 metres) on Thursday.

Next Issue:

The next warning will be issued at about 7pm Tuesday.

Latest River Heights:

Tenthill Ck at Tenthill * 5.58m rising 02:30 PM TUE 11/01/11

Laidley Ck at Laidley 8.85m steady 01:20 PM TUE 11/01/11

Laidley Ck at Showground Weir # 9.26m rising 03:10 PM TUE 11/01/11

Laidley Ck at Warrego Hwy * 7.37m steady 02:00 PM TUE 11/01/11

Lockyer Ck at Glenore Grove # 15.24m rising 03:04 PM TUE 11/01/11

Lockyer Ck at Rifle Range Rd * 16.65m rising 02:20 PM TUE 11/01/11

Brisbane R at Savages Crossing * 20.48m rising 02:40 PM TUE 11/01/11

Brisbane R at Mt Crosby # 20.10m rising 03:20 PM TUE 11/01/11

Brisbane R at Colleges Crossing # 15.41m rising 03:21 PM TUE 11/01/11

Bremer R at Rosewood # 7.48m rising 03:08 PM TUE 11/01/11

Bremer R at Walloon DERM * 9.85m rising 02:40 PM TUE 11/01/11

Warrill Ck at Amberley DNR * 8.09m rising 02:40 PM TUE 11/01/11

Bremer R at Ipswich # 12.05m rising 03:18 PM TUE 11/01/11

Brisbane R at Moggill # 10.22m rising 03:14 PM TUE 11/01/11

Brisbane R at Jindalee Br # 6.7m rising 03:11 PM TUE 11/01/11

Brisbane R at City Gauge # 1.9m rising 01:01 PM TUE 11/01/11

*automatic station

Warnings and River Height Bulletins are available at

<http://www.bom.gov.au/qld/flood/> . Flood Warnings are also available on

telephone 1300 659 219 at a low call cost of 27.5 cents, more from mobile,

public and satellite phones.

This message has passed through an insecure network.

Please direct all enquiries to the message author.

BOM Alert

From: Flood Information Centre [REDACTED]
To: Flood Information Centre [REDACTED]
Date: Tue, 11 Jan 2011 15:34:41 +1000

BOM: TO::BOM552

RIVER HEIGHT BULLETIN for Brisbane, Pine, Caboolture Rivers and tributaries

Issued at 3.30pm on Tuesday, 11 January 2011

Bureau of Meteorology, Brisbane

| Station Name | Time | Height | Trend | Crossing |
|--------------|------|--------|-------|----------|
|--------------|------|--------|-------|----------|

Stanley/Upper Brisbane

| | | | |
|-----------------------------|---------|------|---------------------|
| Stanley R at Peachester # | 3.25pm | 8.94 | F |
| Stanley R at Peachester * | 2.40pm | 8.92 | R |
| Stanley R at Woodford * | 11.40am | 7.16 | R 0.76 above bridge |
| Stanley R at Woodford # | 3.28pm | 9.16 | R 2.76 above bridge |
| Stanley R at Woodford # | 3.29pm | 9.18 | R 2.78 above bridge |
| Cooyar Ck at Cooyar Ck # | 3.21pm | 5.80 | F |
| Cooyar Ck at Cooyar Ck * | 2.40pm | 6.04 | F |
| Brisbane R at Linville # | 3.24pm | 6.24 | F |
| Brisbane R at Linville * | 2.20pm | 6.62 | F |
| Brisbane R at Devon Hills # | 3.26pm | 7.81 | F |

Emu Ck at Boat Mountain # 3.25pm 6.80 F

Emu Ck at Boat Mountain * 2.40pm 7.28 F

Brisbane R at Gregor Ck # 3.26pm 11.44 F

Brisbane R at Gregor Ck * 2.20pm 9.43 S

Cressbrook Ck at Rosentreter's Br # 3.06pm 6.10 R

Cressbrook Ck at Rosentreter's Br * 2.00pm 6.11 S

Lower Brisbane

Sandy Creek at Sandy Creek Road # 3.25pm 3.40 R 1.50 above crossing

Tenthill Ck at Tenthill * 2.30pm 5.58 R

Laidley Ck at Laidley 1.20pm 8.85 S 0.35 above bridge

Laidley Ck at Showground Weir # 3.28pm 9.24 F 5.09 above weir

Laidley Ck at Showground Weir * 2.50pm 9.27 R 5.12 above weir

Laidley Ck at Warrego Hwy * 2.00pm 7.37 S

Lockyer Ck at Glenore Grove # 3.29pm 15.24 F

Lockyer Ck at Lyons Br # 3.06pm 17.21 R

Lockyer Ck at Rifle Range Rd * 2.20pm 16.65 R

Lockyer Ck at O'Reilly'S Weir # 3.28pm 22.68 R 15.02 above weir

Lockyer Ck at O'Reilly'S Weir * 2.30pm 22.23 R 14.57 above weir

Brisbane R at Savages Crossing # 1.47pm 19.99 R 17.09 above bridge

Brisbane R at Savages Crossing * 2.40pm 20.48 R 17.58 above bridge

Brisbane R at Mt Crosby # 3.27pm 20.23 R 7.88 above bridge

Bremer R at Adams Br # 3.24pm 4.89 R

Bremer R at Adams Br * 2.30pm 5.00 F

Bremer R at Stokes Crossing # 3.19pm 5.45 R 4.35 above causeway

Bremer R at Spresters Br # 2.48pm 7.12 R 2.32 above bridge

Western Ck at Grandchester # 3.10pm 5.23 F 0.63 above bridge

Western Ck at Rosewood Wwtp # 3.28pm 7.83 R 0.58 above approaches

Bremer R at Rosewood# 2.57pm 7.46 R 2.26 above bridge

Bremer R at Rosewood # 3.08pm 7.48 R 2.28 above bridge

Bremer R at Five Mile Br Walloon # 3.09pm 8.78 R 4.28 above approaches

Bremer R at Walloon Derm * 2.40pm 9.85 R

Warrill Ck at Kalbar Weir Hw # 3.24pm 79.89 F 5.12 above weir

Warrill Ck at Kalbar Weir Hw * 2.30pm 79.85 F 5.08 above weir

Warrill Ck at Kalbar Weir Tw * 2.40pm 9.04 R

Warrill Ck at Harrisville# 3.27pm 5.30 R 0.20 below bridge

Warrill Ck at Harrisville # 3.29pm 5.44 R 0.06 below bridge

Warrill Ck at Churchbank Weir # 3.13pm 2.91 R 2.91 above weir

Warrill Ck at Churchbank Weir * 3.00pm 2.85 R 2.85 above weir

Warrill Ck at Greens Rd Amberley # 3.29pm 7.18 R

Warrill Ck at Amberley Dnr * 2.40pm 8.09 R

Purga Ck at Peak Crossing # 3.25pm 3.51 R 1.59 below bridge

Purga Ck at Loamside * 2.40pm 6.94 R

Bremer R at One Mile Br # 3.28pm 16.55 R 0.65 below bridge

Bremer R at Hancocks Br Brassall # 3.27pm 15.03 R 1.23 above bridge

Bremer R at Ipswich # 3.30pm 12.15 R 12.73 below bridge

Brisbane R at Moggill # 3.23pm 10.42 R

Brisbane R at Moggill # 3.26pm 10.32 R

Brisbane R at Jindalee Br # 3.26pm 6.80 R

Brisbane R at City Gauge # 1.01pm 1.90 R

Ipswich/Brisbane Creeks

Deebling Creek at Churchill # 3.25pm 3.25 R

Bundamba Ck Harding St Raceview # 3.08pm 24.48 R

Bundamba Ck at Blackstone Br # 2.59pm 18.89 R 1.91 below bridge

Bundamba Ck at Bundamba School # 3.26pm 14.98 R 1.32 below bridge

Woogaroo Ck at Opossum # 3.14pm 23.60 R

Oxley Ck New Beith Rd Greenbank * 2.40pm 2.93 R

Oxley Ck Beatty Rd Archerfield # 3.11pm 5.00 S

Oxley Ck Corinda High # 11.47am 3.97

Oxley Ck Mouth # 3.23pm 4.49 R

Norman Ck Joachim St Holland Pk # 11.07am 16.72 R

Moggill Ck Fortrose St Kenmore # 3.27pm 9.03 R

Enoggera Reservoir # 3.28pm 77.77 S 3.40 above full supply

Enoggera Ck Bancroft Pk K Grove # 11.38am 3.72 R

Kedron Bk Osborne Rd Mitchelton # 11.40am 32.01 R

Zillman Waterhole at F.Sleeman Pk # 3.07pm 3.31 F

Cabbage Tree Ck at Old N'N Rd # 11.40am 43.61 F

Lt Cabbage Tree Ck Stringybark Dr # 2.17pm 27.90

Pine/Caboolture

Samford Ck at Samford Village# 3.26pm 4.10 F

S Pine R at Drapers Crossing # 3.27pm 6.86 F

South Pine R at Cash'S Crossing# 3.29pm 5.45 F

South Pine R at Normanby Way# 3.25pm 4.29 F

North Pine R at Youngs Crossing# 3.28pm 12.92 R

Pine R at Murrumba Downs# 3.24pm 3.09 F

Burpengary Ck at Dale St # 3.25pm 10.54 F

Wararba Ck at Wamuran # 3.28pm 28.42 S 2.18 below bridge

Caboolture R at Hausmann Lane # 3.27pm 10.85 F

Caboolture R at Hausmann Lane * 2.40pm 11.34 F

Caboolture R at Caboolture Wtp # 3.29pm 10.59 F

Trend

S steady RS rising slowly FS falling slowly

P peak R rising F falling

EP estimated peak RF rising fast FF falling fast

Notes:

1. All heights are in metres.
2. Stations marked with [^] indicate heights above AHD.
3. Data from automatic stations [* or #] have not been checked & may have errors.
4. This product includes data made available to the Bureau by other agencies.

Separate approval may be required to use the data for other purposes. Refer to

Flood Gauge Information for station ownership.

This message has passed through an insecure network.

Please direct all enquiries to the message author.

BOM Alert

From: Flood Information Centre [REDACTED]
To: Flood Information Centre [REDACTED]
Date: Tue, 11 Jan 2011 17:00:11 +1000

BOM:

Australian Government Bureau of Meteorology

Queensland

**FLOOD WARNING FOR THE STANLEY RIVER AND BRISBANE RIVER ABOVE
WIVENHOE DAM**

Issued at 4:52 PM on Tuesday the 11th of January 2011

by the Bureau of Meteorology, Brisbane.

The rainfall in the catchments of the Upper Brisbane and Stanley Rivers has

eased to around 20-30 millimetres in the last three hours.

Fast rises are causing major flooding in the Stanley River at Peachester and

Woodford.

Moderate to major flooding continues to ease in Cooyar, Gregor and Cressbrook

Creeks. Major flooding continues along the upper Brisbane River from Linville to

Gregor Creek with levels now easing slowly.

Creek rises continue in Kilcoy Creek with levels expected to peak overnight.

Weather Forecast:

Rain periods with possible thunder. Moderate to heavy falls possible.

Next Issue:

The next warning will be issued at about 11pm Tuesday.

Latest River Heights:

Stanley R at Peachester # 8.86m falling 04:01 PM TUE 11/01/11

Stanley R at Woodford # 9.24m rising 03:58 PM TUE 11/01/11

Kilcoy Ck d/s Mt Kilcoy Weir # 5.68m steady 03:56 PM TUE 11/01/11

Stanley R at Somerset Dam HW # 104.16m rising 04:02 PM TUE 11/01/11

Cooyar Ck at Cooyar Ck # 5.6m falling 04:00 PM TUE 11/01/11

Brisbane R at Linville # 6.12m falling 03:51 PM TUE 11/01/11

Brisbane R at Devon Hills # 7.51m falling 04:02 PM TUE 11/01/11

Emu Ck at Boat Mountain # 6.52m falling 04:01 PM TUE 11/01/11

Maronghi Ck at Glendale * 2.92m steady 02:18 PM TUE 11/01/11

Brisbane R at Gregor Ck # 10.94m falling 04:02 PM TUE 11/01/11

Cressbrook Ck at Rosentreter's Br # 6.06m falling 03:54 PM TUE 11/01/11

Esk Ck at Falls Rd * 5.06m rising 02:30 PM TUE 11/01/11

Splityard Creek Dam # 160m falling 03:59 PM TUE 11/01/11

Brisbane R at Wivenhoe Dam HW # 74.59m rising 04:02 PM TUE 11/01/11

Brisbane R at Wivenhoe Dam TW # 26.45m steady 03:59 PM TUE 11/01/11

*,# from automatic station

Flood Warnings are also available on telephone 1300 659 219 at a low call cost

of 27.5 cents, more from mobile, public and satellite phones.

This message has passed through an insecure network.

Please direct all enquiries to the message author.

BOM Alert

From: Flood Information Centre [REDACTED]
To: Flood Information Centre [REDACTED]
Date: Tue, 11 Jan 2011 17:10:14 +1000

BOM:

Australian Government Bureau of Meteorology

Queensland

Transmitters in areas of the Southeast Coast district and the Darling Downs and Granite Belt district southeast of Dalby to Goondiwindi are REQUESTED TO USE THE STANDARD EMERGENCY WARNING SIGNAL BEFORE BROADCASTING.

TOP PRIORITY FOR IMMEDIATE BROADCAST

SEVERE WEATHER WARNING

for heavy rainfall leading to flash flooding and worsening the existing river flood situation

For people in the Southeast Coast District and the Darling Downs and Granite Belt District southeast of Dalby to Goondiwindi.

Issued at 5:00 pm on Tuesday 11 January 2011

Synoptic Situation: At 4 pm AEST, southeast Queensland was under the influence of a deep moist easterly airstream, with an upper trough located over the Darling Downs.

Heavy rain areas and local thunderstorms are expected to continue tonight through the Southeast Coast and the Darling Downs and Granite Belt District southeast of Dalby to Goondiwindi. Heavy falls will lead to further localised

flash flooding and will worsen existing river flooding.

The heavy rain areas are expected to gradually weaken overnight and during Wednesday morning.

Flood warnings are current for various rivers and streams in these districts.

Please refer to these products [www.bom.gov.au/qld] for further information.

The State Emergency Service advises that people in the affected area should:

• avoid driving, walking or riding through flood waters

• take care on the roads, especially in heavy downpours

• avoid swimming in swollen rivers and creeks

Contact the SES on 132 500 for emergency assistance if required.

The next warning is due to be issued by 11 pm AEST Tuesday.

This warning is also available through TV and Radio broadcasts; the Bureau's website at www.bom.gov.au or call 1300 659 219. The Bureau and State Emergency Service would appreciate this warning being broadcast regularly.

This message has passed through an insecure network.

Please direct all enquiries to the message author.

BOM Alert

From: Flood Information Centre [REDACTED]
To: Flood Information Centre [REDACTED]
Date: Tue, 11 Jan 2011 18:39:42 +1000

BOM: TO::BOM552

RIVER HEIGHT BULLETIN for Brisbane, Pine, Caboolture Rivers and tributaries

Issued at 6.30pm on Tuesday, 11 January 2011

Bureau of Meteorology, Brisbane

| Station Name | Time | Height | Trend | Crossing |
|--------------|------|--------|-------|----------|
|--------------|------|--------|-------|----------|

Stanley/Upper Brisbane

| | | | |
|-----------------------------|--------|------|---------------------|
| Stanley R at Peachester # | 6.28pm | 8.32 | F |
| Stanley R at Peachester * | 5.20pm | 8.56 | F |
| Stanley R at Woodford # | 6.25pm | 9.36 | R 2.96 above bridge |
| Stanley R at Woodford # | 5.53pm | 9.36 | R 2.96 above bridge |
| Cooyar Ck at Cooyar Ck # | 6.27pm | 4.94 | F |
| Cooyar Ck at Cooyar Ck * | 5.50pm | 5.07 | F |
| Brisbane R at Linville # | 6.27pm | 5.94 | F |
| Brisbane R at Linville * | 5.40pm | 6.05 | R |
| Brisbane R at Devon Hills # | 6.29pm | 6.99 | F |
| Emu Ck at Boat Mountain # | 6.19pm | 5.94 | F |

Emu Ck at Boat Mountain * 5.40pm 6.11 F

Brisbane R at Gregor Ck # 6.26pm 9.30 F

Brisbane R at Gregor Ck * 5.30pm 7.04 F

Cressbrook Ck at Rosentreter's Br # 5.48pm 6.00 F

Cressbrook Ck at Rosentreter's Br * 5.22pm 6.00 F

Lower Brisbane

Sandy Creek at Sandy Creek Road # 6.27pm 4.45 F 2.55 above crossing

Tenthill Ck at Tenthill * 5.30pm 5.16 S

Laidley Ck at Showground Weir # 6.28pm 9.24 F 5.09 above weir

Laidley Ck at Showground Weir * 5.30pm 9.26 F 5.11 above weir

Laidley Ck at Warrego Hwy * 5.00pm 7.37 S

Lockyer Ck at Glenore Grove # 6.22pm 15.34 R

Lockyer Ck at Lyons Br # 6.12pm 17.23 F

Lockyer Ck at Rifle Range Rd * 5.30pm 16.66 R

Lockyer Ck at O'Reilly'S Weir # 6.13pm 23.52 R 15.86 above weir

Lockyer Ck at O'Reilly'S Weir * 5.20pm 23.83 R 16.17 above weir

Brisbane R at Savages Crossing * 5.40pm 21.67 R 18.77 above bridge

Brisbane R at Mt Crosby # 6.27pm 21.49 R 9.14 above bridge

Bremer R at Adams Br # 6.24pm 4.99 R

Bremer R at Adams Br * 5.29pm 5.06 R

Bremer R at Stokes Crossing # 3.19pm 5.45 R 4.35 above causeway

Bremer R at Spresters Br # 6.13pm 7.02 F 2.22 above bridge

Western Ck at Grandchester # 6.30pm 4.63 F 0.03 above bridge

Western Ck at Rosewood Wwtp # 5.46pm 7.63 F 0.38 above approaches

Bremer R at Rosewood# 6.05pm 7.36 F 2.16 above bridge

Bremer R at Rosewood # 6.17pm 7.36 F 2.16 above bridge

Bremer R at Five Mile Br Walloon # 6.24pm 8.86 F 4.36 above approaches

Bremer R at Walloon Derm * 5.00pm 11.14 R

Warrill Ck at Kalbar Weir Hw # 6.21pm 80.17 F 5.40 above weir

Warrill Ck at Kalbar Weir Hw * 5.30pm 80.11 R 5.34 above weir

Warrill Ck at Kalbar Weir Tw * 5.40pm 9.41 S

Warrill Ck at Harrisville# 5.36pm 5.70 R 0.20 above bridge

Warrill Ck at Harrisville # 6.23pm 5.92 R 0.42 above bridge

Warrill Ck at Churchbank Weir # 6.27pm 3.12 R 3.12 above weir

Warrill Ck at Churchbank Weir * 3.00pm 2.85 R 2.85 above weir

Warrill Ck at Greens Rd Amberley # 6.29pm 7.64 R

Warrill Ck at Amberley Dnr * 5.40pm 8.69 R

Purga Ck at Peak Crossing # 6.25pm 3.81 S 1.29 below bridge

Purga Ck at Loamside * 5.40pm 7.32 R

Bremer R at One Mile Br # 6.23pm 19.15 R 1.95 above bridge

Bremer R at Hancocks Br Brassall # 6.30pm 17.68 R 3.88 above bridge

Bremer R at Ipswich # 6.29pm 14.20 R 10.68 below bridge

Brisbane R at Moggill # 6.28pm 11.87 R

Brisbane R at Moggill # 6.26pm 11.72 R

Brisbane R at Jindalee Br # 6.26pm 7.65 F

Brisbane R at City Gauge # 5.54pm 1.80 F

Ipswich/Brisbane Creeks

Deebling Creek at Churchill # 6.28pm 6.00 R

Bundamba Ck Harding St Raceview # 5.49pm 24.73 S

Bundamba Ck at Blackstone Br # 6.22pm 19.44 R 1.36 below bridge

Bundamba Ck at Bundamba School # 6.29pm 15.43 R 0.87 below bridge

Woogaroo Ck at Opossum # 5.41pm 23.45 F

Oxley Ck New Beith Rd Greenbank * 5.40pm 3.25 R

Oxley Ck Beatty Rd Archerfield # 5.51pm 5.04 R

Blunder Ck King Ave Durack # 6.25pm 7.09 R

Oxley Ck Corinda High # 6.22pm 4.87 R

Oxley Ck Mouth # 6.23pm 5.00 R

Enoggera Reservoir # 6.27pm 77.71 S 3.34 above full supply

Enoggera Ck Bancroft Pk K Grove # 6.28pm 4.07 F

Pine/Caboolture

Samford Ck at Samford Village# 6.28pm 2.45 F

S Pine R at Drapers Crossing # 6.27pm 4.58 F

South Pine R at Cash'S Crossing# 6.28pm 4.10 F

South Pine R at Normanby Way# 6.07pm 4.99 R

North Pine R at Youngs Crossing# 6.29pm 12.82 F

Pine R at Murrumba Downs# 6.29pm 3.69 R

Burpengary Ck at Dale St # 6.28pm 9.54 F

Caboolture R at Hausmann Lane # 6.28pm 6.95 F

Caboolture R at Hausmann Lane * 5.40pm 7.91 F

Caboolture R at Caboolture Wtp # 6.28pm 9.14 F

Trend

S steady RS rising slowly FS falling slowly

P peak R rising F falling

EP estimated peak RF rising fast FF falling fast

Notes:

1. All heights are in metres.
2. Stations marked with [^] indicate heights above AHD.
3. Data from automatic stations [* or #] have not been checked & may have errors.
4. This product includes data made available to the Bureau by other agencies.

Separate approval may be required to use the data for other purposes. Refer to

Flood Gauge Information for station ownership.

This message has passed through an insecure network.

Please direct all enquiries to the message author.

BOM Alert

From: Flood Information Centre [REDACTED]
To: Flood Information Centre [REDACTED]
Date: Tue, 11 Jan 2011 20:10:26 +1000

BOM:

Australian Government Bureau of Meteorology

Queensland

BROADCASTERS ARE REQUESTED TO USE THE STANDARD EMERGENCY
WARNING SIGNAL BEFORE

BROADCASTING.

PRIORITY - FOR IMMEDIATE BROADCAST

FLOOD WARNING FOR THE LOCKYER, BREMER, WARRILL AND BRISBANE RIVER
BELOW WIVENHOE

INCLUDING BRISBANE CITY

Issued at 8:05 PM on Tuesday the 11th of January 2011

by the Bureau of Meteorology, Brisbane.

At the Brisbane City Gauge (lower end of Edward Street and at Thornton Street),

moderate flood levels of about 3 metres are expected with the overnight high

tide. Higher flood levels to about 4.5 metres (major) are expected with the high

tide on Wednesday afternoon. River rises will continue into Thursday with levels

higher than 1974 expected. The 1974 flood peak was 5.45 metres at the Brisbane

City gauge.

Wivenhoe dam is providing significant mitigation of upper Brisbane floods. River

flows from the Bremer and Lockyer catchments combined with releases from

Wivenhoe dam will continue to increase flood levels in Brisbane during the next

36 hours.

The main flood waters in the Lockyer Creek are now arriving at Lyons Bridge and

are continuing to increase near record levels.

LOCKYER CREEK:

Very heavy rainfall is continuing in the Lockyer Creek catchment and further

very fast rises are being observed. Major flooding will continue this evening

throughout the catchment. Flood levels at Glenore Grove were at 15.2 metres at

3pm, which is 0.3 metres above the 1974 flood level.

The main flood waters in the Lockyer Creek are now arriving at Lyons Bridge and are continuing to increase near record levels.

BREMER RIVER:

The Bremer River at Walloon has exceeded the major flood level. The Bremer River at Rosewood has peaked at 7.5 metres around 5pm Tuesday.

The Bremer River at Ipswich is expected to reach around 21.5 metres during Wednesday.

WARRILL CREEK

Further rises are likely today as rainfall continues with major flooding from

Kalbar to Amberley continuing. Levels at Amberley are expected to reach at least

8.0 metres overnight.

MIDDLE AND LOWER BRISBANE:

Moderate flooding will continue to rise at Savages Crossing and at Mt Crosby

Weir with major flood levels exceeded overnight.

At the Brisbane City Gauge (lower end of Edward Street and at Thornton Street),

moderate flood levels of about 3 metres are expected tonight with the 3am high

tide. Higher flood levels to 4.5 metres (major) are expected with the high tide on Wednesday afternoon (3pm). River rises will continue into Thursday with levels higher than 1974 expected. The 1974 flood peak was 5.45 metres at the Brisbane City gauge.

Predicted River Heights/Flows:

Ipswich: Reach about 21.5 metres (major) during Wednesday; further rises possible.

Moggill: Reach about 21 metres (moderate) during Wednesday; further rises possible.

Jindalee: Reach about 14.2 metres (moderate) late Wednesday; further rises

possible.

Brisbane City: Reach about 3 metres (moderate) around 3am Wednesday.

Reach about 4.5 metres (major) at 3pm Wednesday.

Exceed 1974 flood level (5.45 metres) on Thursday.

Next Issue:

The next warning will be issued at about midnight Tuesday.

Latest River Heights:

Tenthill Ck at Tenthill * 5.05m falling 06:20 PM TUE 11/01/11

Laidley Ck at Mulgowie * 1.9m steady 08:50 AM TUE 11/01/11

Laidley Ck at Laidley 8.85m steady 01:20 PM TUE 11/01/11

Laidley Ck at Showground Weir # 9.24m falling 07:31 PM TUE 11/01/11

Laidley Ck at Warrego Hwy * 7.37m steady 06:00 PM TUE 11/01/11

Lockyer Ck at Glenore Grove # 15.26m rising 07:31 PM TUE 11/01/11

Lockyer Ck at Rifle Range Rd * 16.66m rising 05:30 PM TUE 11/01/11

Brisbane R at Savages Crossing * 21.67m rising 05:40 PM TUE 11/01/11

Brisbane R at Kholo Br # 12.77m rising 03:28 PM TUE 11/01/11

Brisbane R at Colleges Crossing # 15.81m rising 04:05 PM TUE 11/01/11

Bremer R at Rosewood # 7.24m falling 07:29 PM TUE 11/01/11

Bremer R at Walloon DERM * 11.27m rising 06:00 PM TUE 11/01/11

Warrill Ck at Amberley DNR * 8.69m rising 05:40 PM TUE 11/01/11

Bremer R at Ipswich # 14.85m falling 07:33 PM TUE 11/01/11

Brisbane R at Moggill # 12.17m rising 07:32 PM TUE 11/01/11

Brisbane R at Jindalee Br # 7.95m rising 07:23 PM TUE 11/01/11

Brisbane R at City Gauge # 1.75m falling 06:57 PM TUE 11/01/11

*,# denotes an automatic station

Warnings and River Height Bulletins are available at

<http://www.bom.gov.au/qld/flood/> . Flood Warnings are also available on

telephone 1300 659 219 at a low call cost of 27.5 cents, more from mobile,

public and satellite phones.

This message has passed through an insecure network.

Please direct all enquiries to the message author.

From: Flood_Information_Centre
To: Barnes, Peter; FIC-Standby-Duty-Officers; Flood_Information_Centre; LDCC
Date: Tue, Jan 11, 2011 8:54 pm
Subject: Re: Latest BoM Advice issued at 8pm


The forecast Brisbane River levels provided by Bom in their latest advice do not differ from the previous advice other than at Jindalee which has been forecast 0.5 m lower than the earlier prediction. After discussion with BoM the FIC has decided not to rerun these levels to update the BRFFS used by the contact centre since further flood level rises are still possible anyway. The current advice correlates to 10,500 cumecs and at least 5.5m AHD at City Gauge.

The BoM will provide further advice at 12am and we will reassess at that time.

Regards,

Evan Caswell
FIC Controller

Flood Information Centre
Level 1 - South Tower Green Square
505 St Paul's Terrace
FORTITUDE VALLEY QLD 4006



BOM Alert

From: Flood Information Centre
To: Flood Information Centre
Date: Tue, 11 Jan 2011 21:40:45 +1000

BOM: TO::BOM552

RIVER HEIGHT BULLETIN for Brisbane, Pine, Caboolture Rivers and tributaries

Issued at 9.30pm on Tuesday, 11 January 2011

Bureau of Meteorology, Brisbane

| Station Name | Time | Height | Trend | Crossing |
|--------------|------|--------|-------|----------|
|--------------|------|--------|-------|----------|

Stanley/Upper Brisbane

| | | | | |
|-----------------------------|--------|------|---|-------------------|
| Stanley R at Peachester # | 9.28pm | 7.98 | F | |
| Stanley R at Peachester * | 8.10pm | 8.09 | F | |
| Stanley R at Woodford * | 8.50pm | 9.32 | F | 2.92 above bridge |
| Stanley R at Woodford # | 9.29pm | 9.24 | S | 2.84 above bridge |
| Stanley R at Woodford # | 9.14pm | 9.28 | F | 2.88 above bridge |
| Cooyar Ck at Cooyar Ck * | 8.30pm | 4.55 | F | |
| Brisbane R at Linville # | 9.27pm | 5.00 | F | |
| Brisbane R at Linville * | 5.40pm | 6.05 | R | |
| Brisbane R at Devon Hills # | 9.26pm | 6.23 | F | |
| Emu Ck at Boat Mountain # | 9.28pm | 5.50 | F | |
| Emu Ck at Boat Mountain * | 8.30pm | 5.68 | S | |

Brisbane R at Gregor Ck # 9.26pm 8.46 F
 Brisbane R at Gregor Ck * 8.30pm 5.82 R
 Cressbrook Ck at Rosentreters Br # 7.30pm 6.00 R
 Cressbrook Ck at Rosentreters Br * 8.00pm 6.00 S
 Lower Brisbane
 Sandy Creek at Sandy Creek Road # 9.20pm 3.20 R 1.30 above crossing
 Tenthill Ck at Tenthill * 8.30pm 4.84 R
 Laidley Ck at Showground Weir # 8.16pm 9.18 F 5.03 above weir
 Laidley Ck at Showground Weir * 8.40pm 9.19 S 5.04 above weir
 Laidley Ck at Warrego Hwy * 8.00pm 7.37 S
 Lockyer Ck at Glenore Grove # 9.16pm 15.16 S
 Lockyer Ck at Lyons Br # 9.27pm 17.01 F
 Lockyer Ck at Rifle Range Rd * 8.00pm 16.64 S
 Lockyer Ck at O'Reilly's Weir # 8.29pm 22.64 F 14.98 above weir
 Lockyer Ck at O'Reilly's Weir * 6.00pm 23.94 S 16.28 above weir
 Brisbane R at Savages Crossing * 8.40pm 22.97 R 20.07 above bridge
 Brisbane R at Mt Crosby # 9.27pm 22.52 F 10.17 above bridge
 Bremer R at Adams Br # 8.09pm 4.89 F
 Bremer R at Adams Br * 8.20pm 5.00 R
 Bremer R at Spressers Br # 9.21pm 6.67 F 1.87 above bridge
 Western Ck at Grandchester # 9.26pm 3.83 F 0.77 below bridge
 Western Ck at Rosewood Wwtp # 5.46pm 7.63 F 0.38 above approaches
 Bremer R at Rosewood# 9.24pm 7.01 F 1.81 above bridge

Bremer R at Rosewood # 9.20pm 7.04 F 1.84 above bridge
 Bremer R at Five Mile Br Walloon # 9.21pm 8.56 F 4.06 above approaches
 Bremer R at Walloon Derm * 8.00pm 11.20 F
 Warrill Ck at Kalbar Weir Hw # 8.12pm 80.25 R 5.48 above weir
 Warrill Ck at Kalbar Weir Hw * 8.15pm 80.22 F 5.45 above weir
 Warrill Ck at Kalbar Weir Tw * 8.40pm 9.58 F
 Warrill Ck at Harrisville# 7.09pm 5.80 R 0.30 above bridge
 Warrill Ck at Harrisville # 8.14pm 5.98 R 0.48 above bridge
 Warrill Ck at Churchbank Weir # 9.10pm 3.37 R 3.37 above weir
 Warrill Ck at Churchbank Weir * 8.45pm 3.27 R 3.27 above weir
 Warrill Ck at Greens Rd Amberley # 9.29pm 7.78 F
 Warrill Ck at Amberley Dnr * 8.40pm 9.00 R
 Purga Ck at Peak Crossing # 9.23pm 3.66 R 1.44 below bridge
 Purga Ck at Loamside * 8.40pm 7.70 R
 Bremer R at One Mile Br # 9.30pm 20.75 F 3.55 above bridge
 Bremer R at Hancocks Br Brassall # 9.29pm 19.68 R 5.88 above bridge
 Bremer R at Ipswich # 9.25pm 16.30 R 8.58 below bridge
 Brisbane R at Moggill # 9.25pm 13.12 R
 Brisbane R at Moggill # 9.26pm 13.02 R
 Brisbane R at Jindalee Br # 9.23pm 8.50 R
 Brisbane R at City Gauge # 6.57pm 1.75 F
 Ipswich/Brisbane Creeks
 Deebing Creek at Churchill # 9.21pm 7.70 R

Bundamba Ck Harding St Raceview # 9.10pm 24.58 F
 Bundamba Ck at Blackstone Br # 9.29pm 19.29 F 1.51 below bridge
 Bundamba Ck at Bundamba School # 8.03pm 15.58 R 0.72 below bridge
 Woogaroo Ck at Opossum # 9.22pm 22.60 F
 Oxley Ck New Beith Rd Greenbank * 8.30pm 3.98 R
 Oxley Ck Beatty Rd Archerfield # 9.26pm 5.30 R
 Blunder Ck King Ave Durack # 8.55pm 7.62 R
 Oxley Ck Corinda High # 9.12pm 5.22 R
 Oxley Ck Mouth # 8.25pm 5.31
 Moggill Ck Fortrose St Kenmore # 9.27pm 8.65 R
 Enoggera Reservoir # 9.25pm 77.40 S 3.03 above full supply
 Enoggera Ck Bancroft Pk K Grove # 9.24pm 3.79 F
 Pine/Caboolture
 South Pine R at Cash'S Crossing# 9.10pm 2.75 F
 South Pine R at Normanby Way# 9.24pm 4.49 F
 North Pine R at Youngs Crossing# 9.28pm 10.87 F
 Pine R at Murrumba Downs# 9.25pm 3.24 F
 Burpengary Ck at Dale St # 9.27pm 8.39 F
 Caboolture R at Caboolture Wtp # 9.25pm 7.44 F

Trend

S steady RS rising slowly FS falling slowly

P peak R rising F falling

EP estimated peak RF rising fast FF falling fast

Notes:

1. All heights are in metres.
2. Stations marked with [^] indicate heights above AHD.
3. Data from automatic stations [* or #] have not been checked & may have errors.
4. This product includes data made available to the Bureau by other agencies.

Separate approval may be required to use the data for other purposes. Refer to
Flood Gauge Information for station ownership.

This message has passed through an insecure network.

Please direct all enquiries to the message author.

BOM Alert

From: Flood Information Centre [REDACTED]
To: Flood Information Centre [REDACTED]
Date: Tue, 11 Jan 2011 22:00:19 +1000

BOM:

Australian Government Bureau of Meteorology

Queensland

Note: The Standard Emergency Warning Signal is no longer required.

TOP PRIORITY FOR IMMEDIATE BROADCAST

CANCELLATION - SEVERE WEATHER WARNING

For people in the Southeast Coast District and the Darling Downs and Granite Belt District southeast of Dalby to Goondiwindi.

Issued at 10:00 pm on Tuesday 11 January 2011

Synoptic Situation: At 10 pm AEST, southeast Queensland was under the influence of a deep moist east to northeast airstream. A weakening upper trough was moving south.

Heavy rain areas have eased during the past few hours and further flash flooding due to rainfall is no longer expected.

Note that an extremely serious river and stream flood situation still exists.

Refer to flood warnings [www.bom.gov.au/qld] for further information.

The State Emergency Service advises that people in the affected area should:

öýö avoid driving, walking or riding through flood waters

öýö avoid swimming in swollen rivers and creeks

Contact the SES on 132 500 for emergency assistance if required.

No further warnings are expected to be issued for this event

This warning is also available through TV and Radio broadcasts; the Bureau's website at www.bom.gov.au or call 1300 659 219. The Bureau and State Emergency Service would appreciate this warning being broadcast regularly.

This message has passed through an insecure network.

Please direct all enquiries to the message author.

BOM Alert

From: Flood Information Centre [REDACTED]
To: Flood Information Centre [REDACTED]
Date: Tue, 11 Jan 2011 23:25:33 +1000

BOM:

Australian Government Bureau of Meteorology

Queensland

FLOOD WARNING FOR THE STANLEY RIVER AND BRISBANE RIVER ABOVE WIVENHOE DAM

Issued at 11:18 PM on Tuesday the 11th of January 2011

by the Bureau of Meteorology, Brisbane.

The rainfall in the catchments of the Upper Brisbane and Stanley Rivers have continued to ease, with rainfall totals in the last three hours generally less than 10 millimetres.

Major flooding is now falling in the Stanley River at Woodford, the Brisbane River at Gregor Creek and at Rosentreter's on Cressbrook Creek.

River levels in the upper Brisbane and Stanley Rivers will continue to fall overnight.

Next Issue:

The next warning will be issued at about 10am Wednesday.

Latest River Heights:

| | | |
|-------------------------------------|---------------|-----------------------|
| Stanley R at Peachester # | 7.86m steady | 10:48 PM TUE 11/01/11 |
| Stanley R at Woodford # | 9.08m falling | 10:50 PM TUE 11/01/11 |
| Kilcoy Ck d/s Mt Kilcoy Weir # | 5.41m steady | 10:51 PM TUE 11/01/11 |
| Cooyar Ck at Cooyar Ck # | 4.22m falling | 10:42 PM TUE 11/01/11 |
| Brisbane R at Linville # | 4.78m falling | 10:48 PM TUE 11/01/11 |
| Brisbane R at Devon Hills # | 5.85m falling | 10:50 PM TUE 11/01/11 |
| Brisbane R at Gregor Ck # | 8.04m falling | 10:47 PM TUE 11/01/11 |
| Cressbrook Ck at Rosentreter's Br # | 5.84m rising | 10:51 PM TUE 11/01/11 |

automatic station

Flood Warnings are also available on telephone 1300 659 219 at a low call cost of 27.5 cents, more from mobile, public and satellite phones.

This message has passed through an insecure network.

Please direct all enquiries to the message author.

BOM Alert

From: Flood Information Centre [REDACTED]
To: Flood Information Centre [REDACTED]
Date: Wed, 12 Jan 2011 00:25:02 +1000

BOM:

Australian Government Bureau of Meteorology

Queensland

BROADCASTERS ARE REQUESTED TO USE THE STANDARD EMERGENCY
WARNING SIGNAL BEFORE

BROADCASTING.

PRIORITY - FOR IMMEDIATE BROADCAST

FLOOD WARNING FOR THE LOCKYER, BREMER, WARRILL AND BRISBANE RIVER
BELOW WIVENHOE

INCLUDING BRISBANE CITY

Issued at 12:19 AM on Wednesday the 12th of January 2011

by the Bureau of Meteorology, Brisbane.

At the Brisbane City Gauge (lower end of Edward Street and at Thornton Street),

moderate flood levels of about 3 metres are expected with the overnight high

tide. Higher flood levels to about 4.5 metres (major) are expected with the high

tide on Wednesday afternoon. River rises will continue into Thursday with levels

higher than 1974 expected. The 1974 flood peak was 5.45 metres at the Brisbane

City gauge.

Wivenhoe dam is providing significant mitigation of upper Brisbane floods. River

flows from the Bremer and Lockyer catchments combined with releases from

Wivenhoe dam will continue to increase flood levels in Brisbane during the next

36 hours.

LOCKYER CREEK:

Major flooding will continue tonight in the Lockyer Creek catchment. Flood

levels at Glenore Grove peaked at 15.2 metres at 3pm, which is 0.3 metres above

the 1974 flood level.

The Lockyer Creek at Lyons Bridge peaked at 17.25 metres around 6pm Tuesday.

WARRILL CREEK:

Major flooding continues from Kalbar to Amberley. Levels at Amberley are expected to reach at least 8.0 metres overnight.

BREMER RIVER:

The Bremer River at Walloon has exceeded the major flood level. The Bremer River at Rosewood has peaked at 7.5 metres around 5pm Tuesday.

The Bremer River at Ipswich is expected to reach around 21.5 metres during Wednesday causing major flooding. This level is 0.8 metres higher than the 1974 flood peak at Ipswich.

MIDDLE AND LOWER BRISBANE:

Major flood levels have been exceeded at Savages Crossing and Mount Crosby Weir, with further rises expected overnight.

At the Brisbane City Gauge (lower end of Edward Street and at Thornton Street),

moderate flood levels of about 3 metres are expected tonight with the 3am high

tide. Higher flood levels to 4.5 metres (major) are expected with the high tide

on Wednesday afternoon (3pm). River rises will continue into Thursday with

levels higher than 1974 expected. The 1974 flood peak was 5.45 metres at the

Brisbane City gauge.

Predicted River Heights/Flows:

Ipswich: Reach about 21.5 metres (major) during Wednesday; further rises possible.

Moggill: Reach about 21 metres (moderate) during Wednesday; further rises possible.

Jindalee: Reach about 14.2 metres (moderate) late Wednesday; further rises possible.

Brisbane City: Reach about 3 metres (moderate) around 3am Wednesday.

Reach about 4.5 metres (major) at 3pm Wednesday.

Exceed 1974 flood level (5.45 metres) on Thursday.

Next Issue:

The next warning will be issued at about 4am Wednesday.

Latest River Heights:

Tenthill Ck at Tenthill * 4.71m falling 09:20 PM TUE 11/01/11

Laidley Ck at Mulgowie * 1.9m steady 08:50 AM TUE 11/01/11

Laidley Ck at Laidley 8.85m steady 01:20 PM TUE 11/01/11

Laidley Ck at Showground Weir # 9.24m rising 11:28 PM TUE 11/01/11

Laidley Ck at Warrego Hwy * 7.37m steady 09:00 PM TUE 11/01/11

Lockyer Ck at Glenore Grove # 14.88m falling 11:38 PM TUE 11/01/11

Lockyer Ck at Rifle Range Rd * 16.64m steady 08:00 PM TUE 11/01/11

Brisbane R at Savages Crossing * 22.97m rising 08:40 PM TUE 11/01/11

Brisbane R at Kholo Br # 12.77m rising 03:28 PM TUE 11/01/11

Brisbane R at Colleges Crossing # 15.81m rising 04:05 PM TUE 11/01/11

Bremer R at Rosewood # 6.76m falling 11:35 PM TUE 11/01/11

Bremer R at Walloon DERM * 11.07m falling 09:00 PM TUE 11/01/11

Warrill Ck at Amberley DNR * 9m rising 08:40 PM TUE 11/01/11

Bremer R at Ipswich # 16.55m rising 11:36 PM TUE 11/01/11

Brisbane R at Moggill # 13.87m rising 11:32 PM TUE 11/01/11

Brisbane R at Jindalee Br # 9.2m rising 11:35 PM TUE 11/01/11

Brisbane R at City Gauge # 2.26m rising 11:33 PM TUE 11/01/11

*,# automatic station

Warnings and River Height Bulletins are available at

<http://www.bom.gov.au/qld/flood/> . Flood Warnings are also available on

telephone 1300 659 219 at a low call cost of 27.5 cents, more from mobile,

public and satellite phones.

This message has passed through an insecure network.

Please direct all enquiries to the message author.

BOM Alert

From: Flood Information Centre [REDACTED]
To: Flood Information Centre [REDACTED]
Date: Wed, 12 Jan 2011 00:35:28 +1000

BOM: TO::BOM552

RIVER HEIGHT BULLETIN for Brisbane, Pine, Caboolture Rivers and tributaries

Issued at 12.31am on Wednesday, 12 January 2011

Bureau of Meteorology, Brisbane

| Station Name | Time | Height | Trend | Crossing |
|-----------------------------|---------|--------|-------|-------------------|
| <hr/> | | | | |
| Stanley/Upper Brisbane | | | | |
| Stanley R at Peachester # | 12.28am | 7.56 | F | |
| Stanley R at Peachester * | 11.30pm | 7.72 | F | |
| Stanley R at Woodford * | 11.40pm | 8.94 | F | 2.54 above bridge |
| Stanley.R at Woodford # | 12.25am | 8.80 | F | 2.40 above bridge |
| Stanley R at Woodford # | 12.23am | 8.82 | F | 2.42 above bridge |
| Cooyar Ck at Cooyar Ck * | 11.30pm | 4.09 | F | |
| Brisbane R at Linville # | 12.15am | 4.56 | F | |
| Brisbane R at Devon Hills # | 12.17am | 5.53 | F | |
| Emu Ck at Boat Mountain # | 12.28am | 5.22 | R | |
| Emu Ck at Boat Mountain * | 11.30pm | 5.28 | F | |
| Brisbane R at Gregor Ck # | 12.26am | 7.46 | F | |

Brisbane R at Gregor Ck * 11.30pm 4.92 F
 Cressbrook Ck at Rosentreter Br # 12.15am 5.68 F
 Cressbrook Ck at Rosentreter Br * 11.00pm 5.82 F
 Lower Brisbane
 Sandy Creek at Sandy Creek Road # 12.09am 2.65 R 0.75 above crossing
 Laidley Ck at Showground Weir # 12.28am 9.18 F 5.03 above weir
 Laidley Ck at Showground Weir * 11.40pm 9.23 R 5.08 above weir
 Laidley Ck at Warrego Hwy * 11.00pm 7.38 S
 Lockyer Ck at Glenore Grove # 12.28am 14.72 F
 Lockyer Ck at Lyons Br # 12.24am 16.79 F
 Lockyer Ck at Rifle Range Rd * 11.40pm 16.60 S
 Brisbane R at Savages Crossing # 11.08pm 23.57 F 20.67 above bridge
 Brisbane R at Savages Crossing * 11.40pm 23.92 R 21.02 above bridge
 Brisbane R at Mt Crosby # 10.33pm 23.00 R 10.65 above bridge
 Bremer R at Adams Br * 11.30pm 3.64 F
 Bremer R at Spressers Br # 12.13am 6.32 F 1.52 above bridge
 Bremer R at Rosewood# 12.12am 6.66 F 1.46 above bridge
 Bremer R at Rosewood # 12.23am 6.66 F 1.46 above bridge
 Bremer R at Five Mile Br Walloon # 12.27am 8.22 F 3.72 above approaches
 Bremer R at Walloon Derm * 11.00pm 10.78 F
 Warrill Ck at Kalbar Weir Hw # 12.27am 79.41 F 4.64 above weir
 Warrill Ck at Kalbar Weir Hw * 11.30pm 79.59 F 4.82 above weir
 Warrill Ck at Kalbar Weir Tw * 11.35pm 9.16 F

Warrill Ck at Harrisville# 12.11am 5.70 F 0.20 above bridge
 Warrill Ck at Harrisville # 12.23am 5.86 F 0.36 above bridge
 Warrill Ck at Churchbank Weir # 12.13am 3.41 F 3.41 above weir
 Warrill Ck at Churchbank Weir * 10.30pm 3.41 R 3.41 above weir
 Warrill Ck at Greens Rd Amberley # 12.29am 7.84 R
 Warrill Ck at Amberley Dnr * 11.10pm 9.10 S
 Purga Ck at Peak Crossing # 12.21am 2.86 F 2.24 below bridge
 Purga Ck at Loamside * 11.40pm 7.73 S
 Bremer R at One Mile Br # 12.30am 21.35 R 4.15 above bridge
 Bremer R at Hancocks Br Brassall # 10.17pm 19.98 R 6.18 above bridge
 Bremer R at Ipswich # 12.24am 16.80 R 8.08 below bridge
 Brisbane R at Moggill # 12.29am 14.42 R
 Brisbane R at Moggill # 12.29am 14.27 R
 Brisbane R at Jindalee Br # 12.29am 9.45 R
 Brisbane R at City Gauge # 12.24am 2.45 R
 Ipswich/Brisbane Creeks
 Deebing Creek at Churchill # 11.55pm 8.25 R
 Bundamba Ck Harding St Raceview # 11.57pm 24.33 F
 Bundamba Ck at Blackstone Br # 12.10am 18.89 F 1.91 below bridge
 Bundamba Ck at Bundamba School # 12.29am 15.98 R 0.32 below bridge
 Woogaroo Ck at Opossum # 12.20am 21.85 F
 Oxley Ck New Beith Rd Greenbank * 11.40pm 3.63 F
 Oxley Ck Beatty Rd Archerfield # 12.29am 5.64 R

Blunder Ck King Ave Durack # 12.21am 7.48 F
 Oxley Ck Corinda High # 12.16am 5.67 R
 Rocky Waterholes at Muriel Ave # 12.18am 5.50 R
 Oxley Ck Mouth # 12.24am 6.16 R
 Moggill Ck Fortrose St Kenmore # 12.28am 9.45 R
 Enoggera Reservoir # 12.26am 77.06 S 2.69 above full supply
 Enoggera Ck Bancroft Pk K Grove # 12.17am 3.58 S
 Pine/Caboolture
 South Pine R at Cash'S Crossing# 12.02am 2.30 F
 South Pine R at Normanby Way# 12.25am 3.44 F
 North Pine R at Youngs Crossing# 12.27am 8.62 F
 Pine R at Murrumba Downs# 12.28am 2.39 F

Trend

S steady RS rising slowly FS falling slowly

P peak R rising F falling

EP estimated peak RF rising fast FF falling fast

Notes:

1. All heights are in metres.
2. Stations marked with [^] indicate heights above AHD.
3. Data from automatic stations [* or #] have not been checked & may have errors.
4. This product includes data made available to the Bureau by other agencies.

Separate approval may be required to use the data for other purposes. Refer to

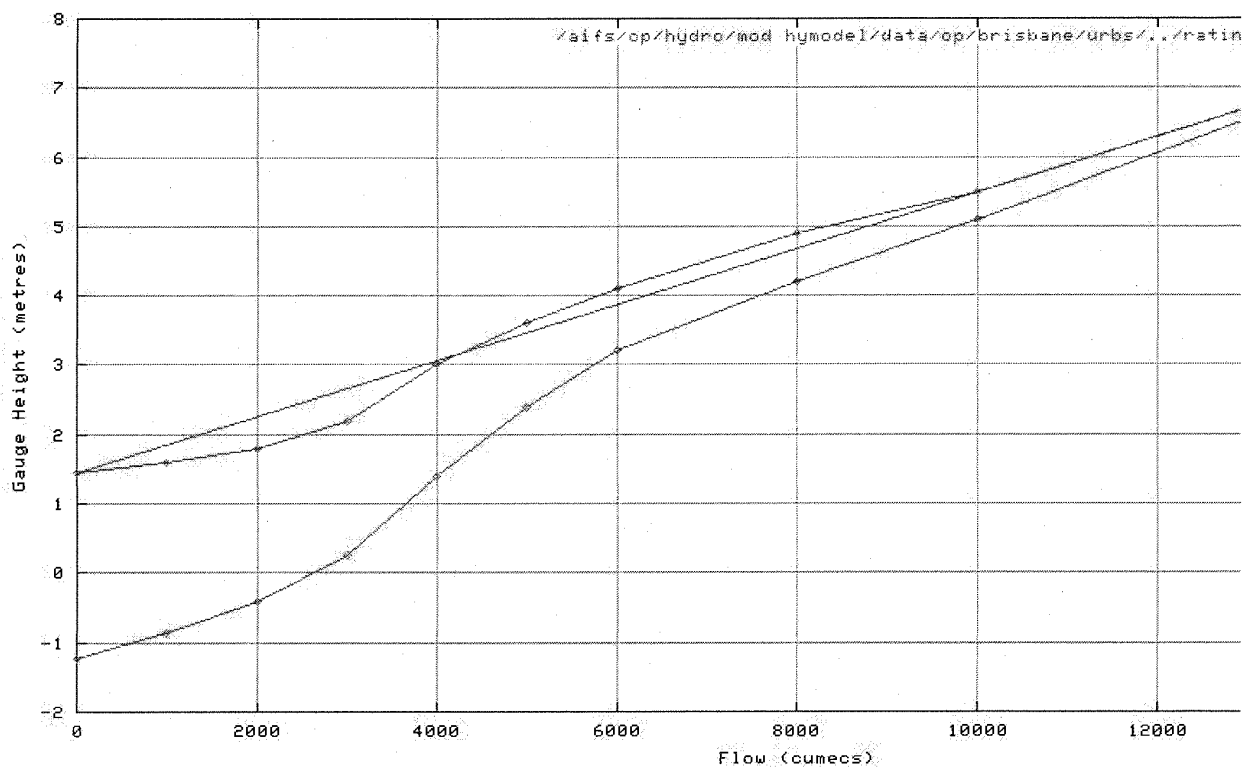
Flood Gauge Information for station ownership.

This message has passed through an insecure network.

Please direct all enquiries to the message author.

use with care ... [SEC=UNCLASSIFIED]

From: Jeff Perkins [REDACTED]
 To: James Charalambous [REDACTED]
 Date: Wed, 12 Jan 2011 00:52:18 +1000



Jeff Perkins
 Supervising Hydrologist
 Seasonal Streamflow Forecasting, Extended Hydrological Prediction
 Climate and Water Division

Australian Government Bureau of Meteorology
 Level 21, 69 Ann Street QLD 4001

This message has passed through an insecure network.
 Please direct all enquiries to the message author.

Flood_Information_Centre - Updated forecast from BoM

From: Flood_Information_Centre
To: Brady, Brendan; FIC-Standby-Duty-Officers; Flood_Information_Centre; LDCC
Date: Wednesday, 12 January 2011 1:24:46 am
Subject: Updated forecast from BoM

+*

Place: Flood_Information_Centre

+*

FIC Controller James Charalambous spoke to BoM Flood Warning Centre at 1 am 12/1/11. They advised that there was no official change to the forecasts i.e they are still going with 5.5 m AHD at the City gauge. The official forecast will be revised in the morning at approx 8 a.m 12/1/11. The FIC will not be issuing a new Situation Report until this time.

Regards
 Belinda

Flood Information Centre
 Level 1 - South Tower Green Square
 505 St Paul's Terrace
 FORTITUDE VALLEY QLD 4006

BOM Alert

From: Flood Information Centre [REDACTED]
To: Flood Information Centre [REDACTED]
Date: Wed, 12 Jan 2011 03:35:33 +1000

BOM: TO::BOM552

RIVER HEIGHT BULLETIN for Brisbane, Pine, Caboolture Rivers and tributaries

Issued at 3.31am on Wednesday, 12 January 2011

Bureau of Meteorology, Brisbane

| Station Name | Time | Height | Trend | Crossing |
|--------------|------|--------|-------|----------|
|--------------|------|--------|-------|----------|

Stanley/Upper Brisbane

| | | | | |
|-----------------------------|--------|------|---|-------------------|
| Stanley R at Peachester # | 3.22am | 6.70 | F | |
| Stanley R at Peachester * | 2.20am | 7.00 | F | |
| Stanley R at Woodford * | 2.40am | 8.38 | F | 1.98 above bridge |
| Stanley R at Woodford # | 3.28am | 8.20 | F | 1.80 above bridge |
| Stanley R at Woodford # | 3.23am | 8.24 | F | 1.84 above bridge |
| Brisbane R at Linville # | 3.24am | 4.10 | F | |
| Brisbane R at Devon Hills # | 3.27am | 5.05 | F | |
| Emu Ck at Boat Mountain # | 3.28am | 4.66 | F | |
| Emu Ck at Boat Mountain * | 2.40am | 4.82 | F | |
| Brisbane R at Gregor Ck # | 3.26am | 6.70 | F | |

Brisbane R at Gregor Ck * 2.30am 4.01 F

Cressbrook Ck at Rosentreter's Br # 3.27am 5.42 F

Cressbrook Ck at Rosentreter's Br * 2.30am 5.49 F

Lower Brisbane

Sandy Creek at Sandy Creek Road # 3.27am 2.20 F 0.30 above crossing

Laidley Ck at Showground Weir # 3.28am 8.86 F 4.71 above weir

Laidley Ck at Showground Weir * 2.30am 9.12 F 4.97 above weir

Laidley Ck at Warrego Hwy * 2.00am 7.20 F

Lockyer Ck at Glenore Grove # 3.28am 14.04 F

Lockyer Ck at Lyons Br # 3.27am 16.65 F

Lockyer Ck at Rifle Range Rd * 2.10am 16.59 F

Brisbane R at Savages Crossing # 3.26am 24.03 F 21.13 above bridge

Brisbane R at Savages Crossing * 2.40am 24.13 R 21.23 above bridge

Brisbane R at Mt Crosby # 3.15am 24.69 S 12.34 above bridge

Bremer R at Spresters Br # 3.03am 6.02 F 1.22 above bridge

Bremer R at Rosewood# 3.22am 6.26 F 1.06 above bridge

Bremer R at Rosewood # 3.23am 6.28 F 1.08 above bridge

Bremer R at Five Mile Br Walloon # 3.24am 7.90 F 3.40 above approaches

Bremer R at Walloon Derm * 2.00am 10.27 F

Warrill Ck at Kalbar Weir Hw # 3.27am 79.07 R 4.30 above weir

Warrill Ck at Kalbar Weir Hw * 2.30am 79.13 F 4.36 above weir

Warrill Ck at Kalbar Weir Tw * 2.40am 8.96 F

Warrill Ck at Harrisville# 2.58am 5.60 F 0.10 above bridge

Warrill Ck at Harrisville # 3.20am 5.76 F 0.26 above bridge

Warrill Ck at Churchbank Weir # 3.28am 3.46 R 3.46 above weir

Warrill Ck at Churchbank Weir * 2.30am 3.40 R 3.40 above weir

Warrill Ck at Greens Rd Amberley # 3.29am 7.88 F

Warrill Ck at Amberley Dnr * 2.20am 9.13 S

Purga Ck at Peak Crossing # 3.15am 2.21 F 2.89 below bridge

Purga Ck at Loamside * 2.40am 7.59 F

Bremer R at One Mile Br # 3.21am 21.30 F 4.10 above bridge

Bremer R at Ipswich # 3.19am 18.20 R 6.68 below bridge

Bremer R at Ipswich 12.15am 17.45 R 7.43 below bridge

Brisbane R at Moggill # 3.28am 15.57 R

Brisbane R at Moggill # 3.29am 15.42 R

Brisbane R at Jindalee Br # 3.17am 10.35 R

Brisbane R at City Gauge # 3.24am 3.01 R

Ipswich/Brisbane Creeks

Deebing Creek at Churchill # 3.27am 8.25 F

Bundamba Ck Harding St Raceview # 3.19am 23.93 F

Bundamba Ck at Blackstone Br # 3.22am 18.39 F 2.41 below bridge

Bundamba Ck at Bundamba School # 3.26am 16.93 R 0.63 above bridge

Woogaroo Ck at Opossum # 3.11am 21.45 F

Oxley Ck New Beith Rd Greenbank * 2.40am 3.16 F

Oxley Ck Beatty Rd Archerfield # 3.21am 6.04 R

Blunder Ck King Ave Durack # 2.51am 7.20

Oxley Ck Corinda High # 3.23am 6.22 R

Rocky Waterholes at Muriel Ave # 3.13am 6.00 R

Oxley Ck Mouth # 3.23am 6.87 R

Norman Ck Caswell St E Brisbane # 3.03am 2.32 R

Moggill Ck Fortrose St Kenmore # 3.27am 10.37 R

Enoggera Reservoir # 3.25am 76.75 S 2.38 above full supply

Enoggera Ck Bancroft Pk K Grove # 3.23am 3.46 F

Breakfast Ck Mouth # 3.13am 1.89

Pine/Caboolture

South Pine R at Cash'S Crossing# 3.19am 2.30 R

South Pine R at Normanby Way# 3.22am 2.59 F

North Pine R at Youngs Crossing# 3.22am 7.47 F

Trend

S steady RS rising slowly FS falling slowly

P peak R rising F falling

EP estimated peak RF rising fast FF falling fast

Notes:

1. All heights are in metres.
2. Stations marked with [^] indicate heights above AHD.
3. Data from automatic stations [* or #] have not been checked & may have errors.
4. This product includes data made available to the Bureau by other agencies.

Separate approval may be required to use the data for other purposes. Refer to

Flood Gauge Information for station ownership.

This message has passed through an insecure network.

Please direct all enquiries to the message author.

BOM Alert

From: Flood Information Centre [REDACTED]
To: Flood Information Centre [REDACTED]
Date: Wed, 12 Jan 2011 04:09:52 +1000

BOM:

Australian Government Bureau of Meteorology

Queensland

BROADCASTERS ARE REQUESTED TO USE THE STANDARD EMERGENCY
WARNING SIGNAL BEFORE

BROADCASTING.

PRIORITY - FOR IMMEDIATE BROADCAST

FLOOD WARNING FOR THE LOCKYER, BREMER, WARRILL AND BRISBANE RIVER
BELOW WIVENHOE

INCLUDING BRISBANE CITY

Issued at 4:02 AM on Wednesday the 12th of January 2011

by the Bureau of Meteorology, Brisbane.

At the Brisbane City Gauge (lower end of Edward Street and at Thornton Street)

risers are expected during Wednesday. River levels around 4.5 metres (major) are

expected with the high tide on Wednesday afternoon. River rises will continue

into Thursday with levels higher than 1974 expected. The 1974 flood peak was

5.45 metres at the Brisbane City gauge.

Wivenhoe dam is providing significant mitigation of upper Brisbane floods. River

flows from the Bremer and Lockyer catchments combined with releases from

Wivenhoe dam will continue to increase flood levels in Brisbane during the next

36 hours.

LOCKYER CREEK:

Major flooding will continue tonight in the Lockyer Creek catchment. Flood

levels at Glenore Grove peaked at 15.2 metres at 3pm, which is 0.3 metres above

the 1974 flood level.

The Lockyer Creek at Lyons Bridge peaked at 17.25 metres around 6pm Tuesday.

WARRILL CREEK:

Major flooding continues from Kalbar to Amberley. Levels at Amberley are

expected to reach at least 8.0 metres overnight.

BREMER RIVER:

The Bremer River at Walloon has exceeded the major flood level. The Bremer River

at Rosewood has peaked at 7.5 metres around 5pm Tuesday.

The Bremer River at Ipswich is expected to reach around 21.5 metres during

Wednesday causing major flooding. This level is 0.8 metres higher than the 1974

flood peak at Ipswich.

MIDDLE AND LOWER BRISBANE:

Major flooding is occurring along the Brisbane River from downstream of Wivenhoe

dam to Jindalee, with further rises expected downstream of Savages Crossing

during Wednesday.

Major flood levels have been exceeded at Savages Crossing, with a peak recorded

early Wednesday morning.

At the Brisbane City Gauge (lower end of Edward Street and at Thornton Street),

moderate flood levels of about 3 metres were recorded with the 3am high tide.

Higher flood levels to 4.5 metres (major) are expected with the high tide on

Wednesday afternoon (3pm). River rises will continue into Thursday with levels

higher than 1974 expected. The 1974 flood peak was 5.45 metres at the Brisbane

City gauge.

Predicted River Heights/Flows:

Ipswich: Reach about 21.5 metres (major) during Wednesday; further rises

possible.

Moggill: Reach about 21 metres (moderate) during Wednesday; further rises

possible.

Jindalee: Reach about 14.2 metres (moderate) late Wednesday; further rises

possible.

Brisbane City: Reach about 3 metres (moderate) around 3am Wednesday.

Reach about 4.5 metres (major) at 3pm Wednesday.

Exceed 1974 flood level (5.45 metres) on Thursday.

Next Issue:

The next warning will be issued at about 8am Wednesday.

Latest River Heights:

Tenthill Ck at Tenthill * 3.03m steady 02:40 AM WED 12/01/11

Laidley Ck at Mulgowie * 1.9m steady 08:50 AM TUE 11/01/11

Laidley Ck at Laidley 8.85m steady 01:20 PM TUE 11/01/11

Laidley Ck at Showground Weir # 8.9m falling 03:25 AM WED 12/01/11

Laidley Ck at Warrego Hwy * 7.2m falling 02:00 AM WED 12/01/11

Lockyer Ck at Glenore Grove # 14.06m falling 03:26 AM WED 12/01/11

Lockyer Ck at Rifle Range Rd * 16.59m falling 02:10 AM WED 12/01/11

Brisbane R at Savages Crossing * 24.13m rising 02:40 AM WED 12/01/11

Brisbane R at Kholo Br # 12.77m rising 03:28 PM TUE 11/01/11

Brisbane R at Colleges Crossing # 15.81m rising 04:05 PM TUE 11/01/11

Bremer R at Rosewood # 6.28m falling 03:23 AM WED 12/01/11

Bremer R at Walloon DERM * 10.27m falling 02:00 AM WED 12/01/11

Warrill Ck at Amberley DNR * 9.13m steady 02:20 AM WED 12/01/11

Bremer R at Ipswich # 18.2m rising 03:19 AM WED 12/01/11

Brisbane R at Moggill # 15.37m rising 03:20 AM WED 12/01/11

Brisbane R at Jindalee Br # 10.35m rising 03:17 AM WED 12/01/11

Brisbane R at City Gauge # 3.01m rising 03:24 AM WED 12/01/11

Warnings and River Height Bulletins are available at

<http://www.bom.gov.au/qld/flood/> . Flood Warnings are also available on

telephone 1300 659 219 at a low call cost of 27.5 cents, more from mobile,

public and satellite phones.

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Please direct all enquiries to the message author.

BOM Alert

From: Flood Information Centre [REDACTED]
To: Flood Information Centre [REDACTED]
Date: Wed, 12 Jan 2011 06:35:23 +1000

BOM: TO::BOM552

RIVER HEIGHT BULLETIN for Brisbane, Pine, Caboolture Rivers and tributaries

Issued at 6.30am on Wednesday, 12 January 2011

Bureau of Meteorology, Brisbane

| Station Name | Time | Height | Trend | Crossing |
|--------------|------|--------|-------|----------|
|--------------|------|--------|-------|----------|

Stanley/Upper Brisbane

| | | | | |
|-----------------------------|--------|------|---|-------------------|
| Stanley R at Peachester # | 6.25am | 5.72 | F | |
| Stanley R at Peachester * | 5.20am | 6.03 | F | |
| Stanley R at Woodford * | 5.40am | 7.77 | F | 1.37 above bridge |
| Stanley R at Woodford # | 6.28am | 7.60 | F | 1.20 above bridge |
| Stanley R at Woodford # | 6.29am | 7.62 | F | 1.22 above bridge |
| Brisbane R at Linville # | 6.21am | 3.72 | F | |
| Brisbane R at Devon Hills # | 6.24am | 4.63 | F | |
| Emu Ck at Boat Mountain # | 6.28am | 4.20 | F | |
| Emu Ck at Boat Mountain * | 5.20am | 4.37 | F | |
| Brisbane R at Gregor Ck # | 6.23am | 6.08 | F | |

Brisbane R at Gregor Ck * 5.30am 3.45 F

Cressbrook Ck at Rosentreter's Br # 6.21am 5.22 F

Cressbrook Ck at Rosentreter's Br * 5.00am 5.32 F

Lower Brisbane

Sandy Creek at Sandy Creek Road # 6.19am 2.05 R 0.15 above crossing

Laidley Ck at Showground Weir # 6.28am 7.02 F 2.87 above weir

Laidley Ck at Showground Weir * 5.40am 7.45 F 3.30 above weir

Laidley Ck at Warrego Hwy * 5.00am 6.86 F

Lockyer Ck at Glenore Grove # 6.28am 13.32 F

Lockyer Ck at Lyons Br # 6.27am 16.41 F

Lockyer Ck at Rifle Range Rd * 5.40am 16.55 F

Brisbane R at Savages Crossing # 6.29am 23.69 R 20.79 above bridge

Brisbane R at Savages Crossing * 5.40am 23.85 F 20.95 above bridge

Brisbane R at Mt Crosby # 6.21am 25.69 13.34 above bridge

Bremer R at Spicers Br # 6.25am 5.72 F 0.92 above bridge

Bremer R at Rosewood# 6.27am 5.81 F 0.61 above bridge

Bremer R at Rosewood # 6.26am 5.84 F 0.64 above bridge

Bremer R at Five Mile Br Walloon # 6.24am 7.54 F 3.04 above approaches

Bremer R at Walloon Derm * 5.40am 9.58 F

Warrill Ck at Kalbar Weir Hw # 6.27am 78.87 R 4.10 above weir

Warrill Ck at Kalbar Weir Hw * 5.15am 78.86 F 4.09 above weir

Warrill Ck at Kalbar Weir Tw * 5.40am 8.52 F

Warrill Ck at Harrisville# 5.40am 5.50 F At Level of bridge

Warrill Ck at Harrisville # 6.11am 5.64 F 0.14 above bridge

Warrill Ck at Churchbank Weir # 5.12am 3.41 F 3.41 above weir

Warrill Ck at Churchbank Weir * 5.00am 3.40 S 3.40 above weir

Warrill Ck at Greens Rd Amberley # 6.28am 8.04 S

Warrill Ck at Amberley Dnr * 5.20am 9.20 R

Purga Ck at Peak Crossing # 5.50am 1.96 F 3.14 below bridge

Purga Ck at Loamside * 5.40am 7.30 F

Bremer R at One Mile Br # 6.06am 21.10 F 3.90 above bridge

Bremer R at Ipswich # 6.13am 18.65 R 6.23 below bridge

Brisbane R at Moggill # 6.24am 16.57 R

Brisbane R at Moggill # 6.29am 16.42 R

Brisbane R at Jindalee Br # 6.17am 11.20 R

Brisbane R at City Gauge # 4.45am 3.11 R

Ipswich/Brisbane Creeks

Deebling Creek at Churchill # 6.08am 8.05 F

Bundamba Ck Harding St Raceview # 6.10am 23.53 F

Bundamba Ck at Blackstone Br # 5.27am 18.14 F 2.66 below bridge

Bundamba Ck at Bundamba School # 6.27am 17.78 R 1.48 above bridge

Woogaroo Ck at Opossum # 6.10am 21.20 F

Oxley Ck New Beith Rd Greenbank * 5.40am 2.83 F

Oxley Ck Beatty Rd Archerfield # 6.22am 6.52 R

Stable Swamp Ck Musgrave Rd # 6.27am 6.81 R

Oxley Ck Corinda High # 6.24am 6.77 R

Rocky Waterholes at Muriel Ave # 6.18am 6.56 R

Oxley Ck Mouth # 6.22am 7.44 R

Norman Ck Caswell St E Brisbane # 6.03am 2.27 F

Moggill Ck Fortrose St Kenmore # 6.27am 11.21 R

Enoggera Reservoir # 6.27am 76.48 S 2.11 above full supply

Enoggera Ck Bancroft Pk K Grove # 6.20am 3.24 F

Breakfast Ck Mouth # 5.59am 1.80 F

Pine/Caboolture

North Pine R at Youngs Crossing# 6.28am 6.52 F

Trend

S steady RS rising slowly FS falling slowly

P peak R rising F falling

EP estimated peak RF rising fast FF falling fast

Notes:

1. All heights are in metres.
2. Stations marked with [^] indicate heights above AHD.
3. Data from automatic stations [* or #] have not been checked & may have errors.
4. This product includes data made available to the Bureau by other agencies.

Separate approval may be required to use the data for other purposes. Refer to

Flood Gauge Information for station ownership.

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BOM Alert

From: Flood Information Centre [REDACTED]
To: Flood Information Centre [REDACTED]
Date: Wed, 12 Jan 2011 07:25:20 +1000

BOM:

Australian Government Bureau of Meteorology

Queensland

Flood Summary

Issued at 7:21 AM on Wednesday the 12th of January 2011

The following Watches/Warnings are current:

FLOOD WARNING FOR COOPER CREEK

FLOOD WARNING FOR THE BURNETT RIVER AND TRIBUTARIES

FLOOD WARNING FOR THE CABOOLTURE RIVER AND SUNSHINE COAST
STREAMS

FLOOD WARNING FOR THE CONDAMINE AND BALONNE RIVER SYSTEM

FLOOD WARNING FOR THE FITZROY RIVER BASIN

FLOOD WARNING FOR THE LOCKYER, BREMER, WARRILL AND BRISBANE RIVER
BELOW WIVENHOE

INCLUDING BRISBANE CITY

FLOOD WARNING FOR THE LOGAN AND ALBERT RIVERS

FLOOD WARNING FOR THE MARY RIVER

FLOOD WARNING FOR THE MOONIE RIVER

FLOOD WARNING FOR THE STANLEY RIVER AND BRISBANE RIVER ABOVE
WIVENHOE DAM

FLOOD WARNING FOR THE WEIR AND MACINTYRE RIVERS

See flood warnings for more detail at: www.bom.gov.au/qld/flood .

Additional information:

Other flooding includes:

Gulf Rivers: Minor flooding easing on Magnificent Creek at Kowanyama. Minor

flooding rising slowly along the Norman River between Yappar River and

Normanton.

Diamantina River: Minor flooding is easing between Diamantina Lakes and Monkira.

Kolan River: Minor flooding slowly easing at Fred Haigh Dam.

Burdekin River: Minor flooding easing slowly in the Suttor River at St Anns.

Warnings and River Height Bulletins are available at

<http://www.bom.gov.au/qld/flood/> . Flood Warnings are also available on

telephone 1300 659 219 at a low call cost of 27.5 cents, more from mobile,

public and satellite phones.

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BOM Alert

From: Flood Information Centre [REDACTED]
To: Flood Information Centre [REDACTED]
Date: Wed, 12 Jan 2011 07:35:30 +1000

BOM:

Australian Government Bureau of Meteorology

Queensland

BROADCASTERS ARE REQUESTED TO USE THE STANDARD EMERGENCY
WARNING SIGNAL BEFORE

BROADCASTING.

PRIORITY - FOR IMMEDIATE BROADCAST

FLOOD WARNING FOR THE LOCKYER, BREMER, WARRILL AND BRISBANE RIVER
BELOW WIVENHOE

INCLUDING BRISBANE CITY

Issued at 7:33 AM on Wednesday the 12th of January 2011

by the Bureau of Meteorology, Brisbane.

At at 7:30am Wednesday, the Brisbane City gauge (lower end of Edward Street and

at Thornton Street) was 3.1 metres and rising. Rises will continue during

Wednesday and overnight.

At the Brisbane City gauge, river levels of about 4.5 metres (major) are

expected with the high tide on Wednesday afternoon. River rises will continue

into Thursday with a peak of about 5.5 metres expected with the high tides at

4am and 4pm. Levels will remain high throughout Thursday. This is similar to the

1974 flood peak of 5.45 metres.

Wivenhoe dam is providing significant mitigation of upper Brisbane floods. River

flows from the Bremer and Lockyer catchments combined with releases from

Wivenhoe dam will continue to increase flood levels in Brisbane during the next

24 hours.

LOCKYER CREEK:

Major flooding will continue this morning in the Lockyer Creek catchment with

levels expected to start falling significantly today. Flood levels at Glenore

Grove peaked at 15.2 metres at 3pm Tuesday, which is 0.3 metres above the 1974

flood level.

The Lockyer Creek at Lyons Bridge peaked at 17.25 metres around 6pm Tuesday.

WARRILL CREEK:

Major flooding continues from Kalbar to Amberley. A flood peak to just over 8 metres is occurring at Amberley this morning.

BREMER RIVER

Major flooding is easing along the Bremer River from Rosewood to Walloon.

The Bremer River at Ipswich is expected to peak about 20.5 metres during

Wednesday afternoon with major flooding. This is similar to the 1974 flood

level.

MIDDLE AND LOWER BRISBANE:

Major flooding is rising from the Savages Crossing area to Jindalee along the

Brisbane River.

At Savages Crossing, a major flood peak of 24.2 metres has been recorded early

Wednesday morning, slightly above the 1974 peak level at this location.

At the Brisbane City Gauge (lower end of Edward Street and at Thornton Street),

moderate flood levels of about 3 metres were recorded with the 3am high tide.

Higher flood levels to 4.5 metres (major) are expected with the high tide on

Wednesday afternoon (3pm). River rises will continue into Thursday with a peak

of about 5.5 metres expected with the high tides at 4am and 4pm. Levels will

remain high throughout Thursday. This is similar to the 1974 flood peak of 5.45

metres.

Predicted River Heights/Flows:

Ipswich: Peak about 20.5 metres (major) during Wednesday afternoon.

Moggill: Peak about 20 metres (moderate) during Wednesday afternoon.

Jindalee: Peak about 14.2 metres (moderate) by midnight.

Brisbane City: Reach about 4.5 metres (major) at 3pm Wednesday.

Peak about 5.5 metres (major) during Thursday.

Next Issue:

The next warning will be issued at about noon Wednesday.

Latest River Heights:

Laidley Ck at Laidley 8.85m steady 01:20 PM TUE 11/01/11

Laidley Ck at Showground Weir # 7.26m falling 06:01 AM WED 12/01/11

Laidley Ck at Warrego Hwy * 6.86m falling 05:00 AM WED 12/01/11

Lockyer Ck at Glenore Grove # 13.42m falling 06:01 AM WED 12/01/11

Lockyer Ck at Rifle Range Rd * 16.55m falling 05:40 AM WED 12/01/11

Brisbane R at Savages Crossing * 23.85m falling 05:40 AM WED 12/01/11

Brisbane R at Kholo Br # 12.77m rising 03:28 PM TUE 11/01/11

Brisbane R at Colleges Crossing # 15.81m rising 04:05 PM TUE 11/01/11

Bremer R at Rosewood # 5.9m falling 06:02 AM WED 12/01/11

Bremer R at Walloon DERM * 9.58m falling 05:40 AM WED 12/01/11

Warrill Ck at Amberley DNR * 9.2m rising 05:20 AM WED 12/01/11

Bremer R at Ipswich # 18.6m rising 05:53 AM WED 12/01/11

Brisbane R at Moggill # 16.27m rising 05:53 AM WED 12/01/11

Brisbane R at Jindalee Br # 11.1m rising 06:02 AM WED 12/01/11

Brisbane R at City Gauge # 3.10m rising 07:30 AM WED 12/01/11

*automatic station

Warnings and River Height Bulletins are available at

<http://www.bom.gov.au/qld/flood/> . Flood Warnings are also available on

telephone 1300 659 219 at a low call cost of 27.5 cents, more from mobile,

public and satellite phones.

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BOM Alert

From: Flood Information Centre [REDACTED]
To: Flood Information Centre [REDACTED]
Date: Wed, 12 Jan 2011 08:05:08 +1000

BOM:

Australian Government Bureau of Meteorology

Queensland

BROADCASTERS ARE REQUESTED TO USE THE STANDARD EMERGENCY
WARNING SIGNAL BEFORE

BROADCASTING.

PRIORITY - FOR IMMEDIATE BROADCAST

FLOOD WARNING FOR THE LOCKYER, BREMER, WARRILL AND BRISBANE RIVER
BELOW WIVENHOE

INCLUDING BRISBANE CITY

Issued at 7:56 AM on Wednesday the 12th of January 2011

by the Bureau of Meteorology, Brisbane.

IPSWICH: At 7:30 am Wednesday, flood levels at Ipswich are at 19 metres and

rising. A peak is expected this afternoon of about 20.5 metres. This is similar

to the 1974 flood level.

BRISBANE: At 7:30am Wednesday, the Brisbane City gauge (lower end of Edward

Street and at Thornton Street) was 3.1 metres and rising. Rises will continue

during Wednesday and overnight.

At the Brisbane City gauge, river levels of about 4.5 metres (major) are expected with the high tide on Wednesday afternoon. River rises will continue into Thursday with a peak of about 5.5 metres expected with the high tides at 4am and 4pm. Levels will remain high throughout Thursday. This is similar to the 1974 flood peak of 5.45 metres.

Wivenhoe dam is providing significant mitigation of upper Brisbane floods. River flows from the Bremer and Lockyer catchments combined with releases from Wivenhoe dam will continue to increase flood levels in Brisbane during the next 24 hours.

LOCKYER CREEK:

Major flooding will continue this morning in the Lockyer Creek catchment with

levels expected to start falling significantly today. Flood levels at Glenore

Grove peaked at 15.2 metres at 3pm Tuesday, which is 0.3 metres above the 1974

flood level.

The Lockyer Creek at Lyons Bridge peaked at 17.25 metres around 6pm Tuesday.

WARRILL CREEK:

Major flooding continues from Kalbar to Amberley. A flood peak to just over 8

metres is occurring at Amberley this morning.

BREMER RIVER

Major flooding is easing along the Bremer River from Rosewood to Walloon.

The Bremer River at Ipswich is expected to peak about 20.5 metres during

Wednesday afternoon with major flooding. This is similar to the 1974 flood

level.

MIDDLE AND LOWER BRISBANE:

Major flooding is rising from the Savages Crossing area to Jindalee along the

Brisbane River.

At Savages Crossing, a major flood peak of 24.2 metres has been recorded early

Wednesday morning, slightly above the 1974 peak level at this location.

At the Brisbane City Gauge (lower end of Edward Street and at Thornton Street),

moderate flood levels of about 3 metres were recorded with the 3am high tide.

Higher flood levels to 4.5 metres (major) are expected with the high tide on

Wednesday afternoon (3pm). River rises will continue into Thursday with a peak

of about 5.5 metres expected with the high tides at 4am and 4pm. Levels will

remain high throughout Thursday. This is similar to the 1974 flood peak of 5.45

metres.

Predicted River Heights/Flows:

Ipswich: Peak about 20.5 metres (major) during Wednesday afternoon.

Moggill: Peak about 20 metres (moderate) during Wednesday afternoon.

Jindalee: Peak about 14.2 metres (moderate) by midnight.

Brisbane City: Reach about 4.5 metres (major) at 3pm Wednesday.

Peak about 5.5 metres (major) during Thursday.

Next Issue:

The next warning will be issued at about noon Wednesday.

Latest River Heights:

Tenthill Ck at Tenthill * 2.67m falling 06:00 AM WED 12/01/11

Laidley Ck at Mulgowie * 1.9m steady 08:50 AM TUE 11/01/11

Laidley Ck at Laidley 8.85m steady 01:20 PM TUE 11/01/11

Laidley Ck at Showground Weir # 6.56m falling 07:37 AM WED 12/01/11

Laidley Ck at Warrego Hwy * 6.75m falling 06:00 AM WED 12/01/11

Lockyer Ck at Glenore Grove # 13.04m falling 07:39 AM WED 12/01/11

Lockyer Ck at Rifle Range Rd * 16.55m falling 05:40 AM WED 12/01/11

Brisbane R at Savages Crossing * 23.85m falling 05:40 AM WED 12/01/11

Brisbane R at Kholo Br # 12.77m rising 03:28 PM TUE 11/01/11

Brisbane R at Colleges Crossing # 15.81m rising 04:05 PM TUE 11/01/11

Bremer R at Rosewood # 5.64m falling 07:38 AM WED 12/01/11

Bremer R at Walloon DERM * 9.53m falling 06:00 AM WED 12/01/11

Warrill Ck at Amberley DNR * 9.2m rising 05:20 AM WED 12/01/11

Bremer R at Ipswich # 18.85m rising 07:29 AM WED 12/01/11

Brisbane R at Moggill # 16.72m rising 07:38 AM WED 12/01/11

Brisbane R at Jindalee Br # 11.5m rising 07:41 AM WED 12/01/11

Brisbane R at City Gauge # 3.15m rising 07:39 AM WED 12/01/11

*automatic station

Warnings and River Height Bulletins are available at

<http://www.bom.gov.au/qld/flood/> . Flood Warnings are also available on

telephone 1300 659 219 at a low call cost of 27.5 cents, more from mobile,

public and satellite phones.

This message has passed through an insecure network.

Please direct all enquiries to the message author.

BOM Alert

From: Flood Information Centre [REDACTED]
To: Flood Information Centre [REDACTED]
Date: Wed, 12 Jan 2011 08:55:48 +1000

BOM:

Australian Government Bureau of Meteorology

Queensland

FLOOD WARNING FOR THE STANLEY RIVER AND BRISBANE RIVER ABOVE
WIVENHOE DAM

Issued at 8:55 AM on Wednesday the 12th of January 2011

by the Bureau of Meteorology, Brisbane.

Rainfall has now eased over the catchment.

Moderate flooding continues to ease in the Stanley River at Woodford. Minor to moderate flooding continues to ease on the Upper Brisbane River between Linville and Gregor Creek. Major flooding is easing on Cressbrook Creek at Rosentreters.

River levels will continue to fall during Wednesday.

Next Issue:

The next warning will be issued at about 6pm Wednesday.

Latest River Heights:

Stanley R at Peachester # 4.92m falling 08:34 AM WED 12/01/11

Stanley R at Woodford # 7.22m falling 08:32 AM WED 12/01/11

Stanley R at Woodford # 7.2m falling 08:31 AM WED 12/01/11

Kilcoy Ck d/s Mt Kilcoy Weir # 3.84m steady 08:40 AM WED 12/01/11

Cooyar Ck at Cooyar Ck # 3.14m falling 08:39 AM WED 12/01/11

Brisbane R at Linville # 3.5m falling 08:33 AM WED 12/01/11

Brisbane R at Devon Hills # 4.41m falling 08:36 AM WED 12/01/11

Brisbane R at Gregor Ck # 5.66m falling 08:35 AM WED 12/01/11

Cressbrook Ck at Rosentreter's Br # 5.08m falling 08:27 AM WED 12/01/11

Flood Warnings are also available on telephone 1300 659 219 at a low call cost

of 27.5 cents, more from mobile, public and satellite phones.

This message has passed through an insecure network.

Please direct all enquiries to the message author.

BOM Alert

From: Flood Information Centre [REDACTED]
To: Flood Information Centre [REDACTED]
Date: Wed, 12 Jan 2011 09:35:23 +1000

BOM: TO::BOM552

RIVER HEIGHT BULLETIN for Brisbane, Pine, Caboolture Rivers and tributaries

Issued at 9.30am on Wednesday, 12 January 2011

Bureau of Meteorology, Brisbane

| Station Name | Time | Height | Trend | Crossing |
|--------------|------|--------|-------|----------|
|--------------|------|--------|-------|----------|

Stanley/Upper Brisbane

| | | | | |
|-------------------------------------|--------|------|---|-------------------|
| Stanley R at Peachester # | 9.25am | 4.62 | F | |
| Stanley R at Peachester * | 8.00am | 5.07 | F | |
| Stanley R at Woodford * | 8.20am | 7.25 | F | 0.85 above bridge |
| Stanley R at Woodford # | 9.25am | 7.04 | F | 0.64 above bridge |
| Stanley R at Woodford # | 9.23am | 7.06 | F | 0.66 above bridge |
| Brisbane R at Linville # | 9.15am | 3.44 | F | |
| Brisbane R at Devon Hills # | 9.24am | 4.33 | F | |
| Emu Ck at Boat Mountain * | 8.00am | 4.05 | F | |
| Brisbane R at Gregor Ck # | 9.23am | 5.54 | F | |
| Cressbrook Ck at Rosentreter's Br # | 9.21am | 5.02 | F | |

Cressbrook Ck at Rosentreter's Br * 8.30am 5.08 F

Lower Brisbane

Sandy Creek at Sandy Creek Road # 8.48am 1.95 S 0.05 above crossing

Laidley Ck at Laidley 8.45am 5.10 S 3.40 below bridge

Laidley Ck at Showground Weir # 9.22am 6.18 F 2.03 above weir

Laidley Ck at Showground Weir * 8.20am 6.36 F 2.21 above weir

Laidley Ck at Warrego Hwy * 8.00am 6.51 F

Lockyer Ck at Glenore Grove # 9.28am 12.58 F

Lockyer Ck at Lyons Br # 9.27am 16.25 F

Lockyer Ck at Rifle Range Rd * 8.20am 16.50 F

Brisbane R at Savages Crossing # 9.26am 22.71 F 19.81 above bridge

Brisbane R at Savages Crossing * 8.20am 23.25 F 20.35 above bridge

Brisbane R at Mt Crosby # 9.24am 25.98 S 13.63 above bridge

Bremer R at Spresters Br # 9.03am 5.47 F 0.67 above bridge

Western Ck at Rosewood Wwtp # 9.29am 6.08 S 1.17 below approaches

Bremer R at Rosewood# 8.57am 5.41 F 0.21 above bridge

Bremer R at Rosewood # 9.26am 5.36 F 0.16 above bridge

Bremer R at Five Mile Br Walloon # 9.24am 7.06 F 2.56 above approaches

Bremer R at Walloon Derm * 8.00am 9.13 F

Warrill Ck at Kalbar Weir Hw # 9.27am 78.55 R 3.78 above weir

Warrill Ck at Kalbar Weir Hw * 8.15am 78.59 F 3.82 above weir

Warrill Ck at Kalbar Weir Tw * 8.20am 8.30 F

Warrill Ck at Kalbar 7.30am 9.95 FS 2.95 above bridge

Warrill Ck at Harrisville# 7.40am 5.40 F 0.10 below bridge

Warrill Ck at Harrisville # 9.05am 5.48 F 0.02 below bridge

Warrill Ck at Churchbank Weir # 9.23am 3.27 F 3.27 above weir

Warrill Ck at Greens Rd Amberley # 9.29am 8.12 R

Warrill Ck at Amberley Dnr * 8.00am 9.25 S

Purga Ck at Peak Crossing # 8.12am 1.81 F 3.29 below bridge

Purga Ck at Loamside * 8.20am 6.94 F

Bremer R at One Mile Br # 9.25am 20.85 F 3.65 above bridge

Bremer R at Ipswich # 9.22am 19.10 R 5.78 below bridge

Bremer R at Ipswich 5.50am 18.52 RS 6.36 below bridge

Brisbane R at Moggill # 9.25am 17.27 R

Brisbane R at Moggill # 9.26am 17.12 R

Brisbane R at Jindalee Br # 9.14am 11.85 R

Brisbane R at City Gauge # 8.54am 3.40 R

Ipswich/Brisbane Creeks

Deebing Creek at Churchill # 9.00am 7.80 F

Bundamba Ck Harding St Raceview # 9.07am 23.18 F

Bundamba Ck at Blackstone Br # 9.28am 18.39 R 2.41 below bridge

Bundamba Ck at Bundamba School # 9.13am 18.38 R 2.08 above bridge

Woogaroo Ck at Opossum # 9.28am 21.00 F

Oxley Ck New Beith Rd Greenbank * 8.20am 2.63 F

Oxley Ck Beatty Rd Archerfield # 9.19am 7.04 R

Stable Swamp Ck Musgrave Rd # 9.28am 7.35 R

Oxley Ck Corinda High # 9.14am 7.27 R

Rocky Waterholes at Muriel Ave # 9.21am 7.06 R

Oxley Ck Mouth # 9.24am 7.97 R

Norman Ck Caswell St E Brisbane # 9.25am 2.32 R

Moggill Ck Fortrose St Kenmore # 8.35am 11.69 R

Enoggera Reservoir # 9.28am 76.24 S 1.87 above full supply

Enoggera Ck Bancroft Pk K Grove # 9.18am 3.06 F

Breakfast Ck Mouth # 9.24am 1.80 S

Pine/Caboolture

North Pine R at Youngs Crossing# 9.15am 6.32 R

Trend

S steady RS rising slowly FS falling slowly

P peak R rising F falling

EP estimated peak RF rising fast FF falling fast

Notes:

1. All heights are in metres.
2. Stations marked with [^] indicate heights above AHD.
3. Data from automatic stations [* or #] have not been checked & may have errors.
4. This product includes data made available to the Bureau by other agencies.

Separate approval may be required to use the data for other purposes. Refer to

Flood Gauge Information for station ownership.

This message has passed through an insecure network.

Please direct all enquiries to the message author.

Flood_Information_Centre - Fwd: BOM Alert

From: Ken Morris
To: Flood_Information_Centre
Date: Wednesday, 12 January 2011 10:40:31 am
Subject: Fwd: BOM Alert

+++++*
 +++++*

Place: Flood_Information_Centre

+++++*
 +++++*

>>> Flood Information Centre 12 January 2011 9:35 am >>>

BOM: TO::BOM552

RIVER HEIGHT BULLETIN for Brisbane, Pine, Caboolture Rivers and tributaries

Issued at 9.30am on Wednesday, 12 January 2011

Bureau of Meteorology, Brisbane

Station Name Time Height Trend Crossing

Stanley/Upper Brisbane

Stanley R at Peachester # 9.25am 4.62 F
 Stanley R at Peachester * 8.00am 5.07 F
 Stanley R at Woodford * 8.20am 7.25 F 0.85 above bridge
 Stanley R at Woodford # 9.25am 7.04 F 0.64 above bridge
 Stanley R at Woodford # 9.23am 7.06 F 0.66 above bridge
 Brisbane R at Linville # 9.15am 3.44 F
 Brisbane R at Devon Hills # 9.24am 4.33 F
 Emu Ck at Boat Mountain * 8.00am 4.05 F
 Brisbane R at Gregor Ck # 9.23am 5.54 F
 Cressbrook Ck at Rosentreter Br # 9.21am 5.02 F
 Cressbrook Ck at Rosentreter Br * 8.30am 5.08 F

Lower Brisbane

Sandy Creek at Sandy Creek Road # 8.48am 1.95 S 0.05 above crossing
 Laidley Ck at Laidley 8.45am 5.10 S 3.40 below bridge
 Laidley Ck at Showground Weir # 9.22am 6.18 F 2.03 above weir
 Laidley Ck at Showground Weir * 8.20am 6.36 F 2.21 above weir
 Laidley Ck at Warrego Hwy * 8.00am 6.51 F
 Lockyer Ck at Glenore Grove # 9.28am 12.58 F

Lockyer Ck at Lyons Br # 9.27am 16.25 F
 Lockyer Ck at Rifle Range Rd * 8.20am 16.50 F
 Brisbane R at Savages Crossing # 9.26am 22.71 F 19.81 above bridge
 Brisbane R at Savages Crossing * 8.20am 23.25 F 20.35 above bridge
 Brisbane R at Mt Crosby # 9.24am 25.98 S 13.63 above bridge
 Bremer R at Spresters Br # 9.03am 5.47 F 0.67 above bridge
 Western Ck at Rosewood Wwtp # 9.29am 6.08 S 1.17 below approaches
 Bremer R at Rosewood# 8.57am 5.41 F 0.21 above bridge
 Bremer R at Rosewood # 9.26am 5.36 F 0.16 above bridge
 Bremer R at Five Mile Br Walloon # 9.24am 7.06 F 2.56 above approaches
 Bremer R at Walloon Derm * 8.00am 9.13 F
 Warrill Ck at Kalbar Weir Hw # 9.27am 78.55 R 3.78 above weir
 Warrill Ck at Kalbar Weir Hw * 8.15am 78.59 F 3.82 above weir
 Warrill Ck at Kalbar Weir Tw * 8.20am 8.30 F
 Warrill Ck at Kalbar 7.30am 9.95 FS 2.95 above bridge
 Warrill Ck at Harrisville# 7.40am 5.40 F 0.10 below bridge
 Warrill Ck at Harrisville # 9.05am 5.48 F 0.02 below bridge
 Warrill Ck at Churchbank Weir # 9.23am 3.27 F 3.27 above weir
 Warrill Ck at Greens Rd Amberley # 9.29am 8.12 R
 Warrill Ck at Amberley Dnr * 8.00am 9.25 S
 Purga Ck at Peak Crossing # 8.12am 1.81 F 3.29 below bridge
 Purga Ck at Loamside * 8.20am 6.94 F
 Bremer R at One Mile Br # 9.25am 20.85 F 3.65 above bridge
 Bremer R at Ipswich # 9.22am 19.10 R 5.78 below bridge
 Bremer R at Ipswich 5.50am 18.52 RS 6.36 below bridge
 Brisbane R at Moggill # 9.25am 17.27 R
 Brisbane R at Moggill # 9.26am 17.12 R
 Brisbane R at Jindalee Br # 9.14am 11.85 R
 Brisbane R at City Gauge # 8.54am 3.40 R

Ipswich/Brisbane Creeks

Deebing Creek at Churchill # 9.00am 7.80 F
 Bundamba Ck Harding St Raceview # 9.07am 23.18 F
 Bundamba Ck at Blackstone Br # 9.28am 18.39 R 2.41 below bridge
 Bundamba Ck at Bundamba School # 9.13am 18.38 R 2.08 above bridge
 Woogaroo Ck at Opossum # 9.28am 21.00 F
 Oxley Ck New Beith Rd Greenbank * 8.20am 2.63 F
 Oxley Ck Beatty Rd Archerfield # 9.19am 7.04 R
 Stable Swamp Ck Musgrave Rd # 9.28am 7.35 R
 Oxley Ck Corinda High # 9.14am 7.27 R
 Rocky Waterholes at Muriel Ave # 9.21am 7.06 R
 Oxley Ck Mouth # 9.24am 7.97 R
 Norman Ck Caswell St E Brisbane # 9.25am 2.32 R
 Moggill Ck Fortrose St Kenmore # 8.35am 11.69 R
 Enoggera Reservoir # 9.28am 76.24 S 1.87 above full supply
 Enoggera Ck Bancroft Pk K Grove # 9.18am 3.06 F
 Breakfast Ck Mouth # 9.24am 1.80 S

Pine/Caboolture

North Pine R at Youngs Crossing# 9.15am 6.32 R

Trend

S steady RS rising slowly FS falling slowly

P peak R rising F falling

EP estimated peak RF rising fast FF falling fast

Notes:

1. All heights are in metres.
 2. Stations marked with [^] indicate heights above AHD.
 3. Data from automatic stations [* or #] have not been checked & may have errors.
 4. This product includes data made available to the Bureau by other agencies.
- Separate approval may be required to use the data for other purposes. Refer to Flood Gauge Information for station ownership.

This message has passed through an insecure network.

Please direct all enquiries to the message author.

From: Ken Morris
To: Flood_Information_Centre
Date: Wednesday, 12 January 2011 10:40:58 am
Subject: Fwd: BOM Alert

Place: Flood Information Centre

[illegible]

Ken Morris
Principal Engineer, Water & Environment

>>> Flood Information Centre 12 January 2011 8:55 am >>>
BOM:

Australian Government Bureau of Meteorology
Queensland

FLOOD WARNING FOR THE STANLEY RIVER AND BRISBANE RIVER ABOVE WIVENHOE DAM

Issued at 8:55 AM on Wednesday the 12th of January 2011
by the Bureau of Meteorology, Brisbane.

Rainfall has now eased over the catchment.

Moderate flooding continues to ease in the Stanley River at Woodford. Minor to moderate flooding continues to ease on the Upper Brisbane River between Linville and Gregor Creek. Major flooding is easing on Cressbrook Creek at Rosentreters.

River levels will continue to fall during Wednesday.

Next Issue:

The next warning will be issued at about 6pm Wednesday.

Latest River Heights:

Stanley R at Peachester # 4.92m falling 08:34 AM WED 12/01/11

Stanley R at Woodford # 7.22m falling 08:32 AM WED 12/01/11

Stanley R at Woodford # 7.2m falling 08:31 AM WED 12/01/11

Kilcoy Ck d/s Mt Kilcoy Weir # 3.84m steady 08:40 AM WED 12/01/11

Cooyar Ck at Cooyar Ck # 3.14m falling 08:39 AM WED 12/01/11

Brisbane R at Linville # 3.5m falling 08:33 AM WED 12/01/11

Brisbane R at Devon Hills # 4.41m falling 08:36 AM WED 12/01/11

Brisbane R at Gregor Ck # 5.66m falling 08:35 AM WED 12/01/11

Cressbrook Ck at Rosentreter Br # 5.08m falling 08:27 AM WED 12/01/11

Flood Warnings are also available on telephone 1300 659 219 at a low call cost of 27.5 cents, more from mobile, public and satellite phones.

This message has passed through an insecure network.

Please direct all enquiries to the message author.

Flood_Information_Centre - Fwd: BOM Alert

From: Ken Morris
To: Flood_Information_Centre
Date: Wednesday, 12 January 2011 10:41:18 am
Subject: Fwd: BOM Alert

+==*

Place: Flood_Information_Centre

+==*

Ken Morris
Principal Engineer, Water & Environment

>>> Flood Information Centre 12 January 2011 7:25 am >>>
BOM:

Australian Government Bureau of Meteorology
Queensland

Flood Summary
Issued at 7:21 AM on Wednesday the 12th of January 2011

The following Watches/Warnings are current:
FLOOD WARNING FOR COOPER CREEK
FLOOD WARNING FOR THE BURNETT RIVER AND TRIBUTARIES
FLOOD WARNING FOR THE CABOOLTURE RIVER AND SUNSHINE COAST STREAMS
FLOOD WARNING FOR THE CONDRAMINE AND BALONNE RIVER SYSTEM
FLOOD WARNING FOR THE FITZROY RIVER BASIN
FLOOD WARNING FOR THE LOCKYER, BREMER, WARRILL AND BRISBANE RIVER BELOW WIVENHOE
INCLUDING BRISBANE CITY
FLOOD WARNING FOR THE LOGAN AND ALBERT RIVERS
FLOOD WARNING FOR THE MARY RIVER
FLOOD WARNING FOR THE MOONIE RIVER
FLOOD WARNING FOR THE STANLEY RIVER AND BRISBANE RIVER ABOVE WIVENHOE DAM
FLOOD WARNING FOR THE WEIR AND MACINTYRE RIVERS

See flood warnings for more detail at: www.bom.gov.au/qld/flood .

Additional information:
Other flooding includes:

Gulf Rivers: Minor flooding easing on Magnificent Creek at Kowanyama. Minor flooding rising slowly along the Norman River between Yappar River and Normanton.

Diamantina River: Minor flooding is easing between Diamantina Lakes and Monkira.

Kolan River: Minor flooding slowly easing at Fred Haigh Dam.

Burdekin River: Minor flooding easing slowly in the Suttor River at St Anns.

Warnings and River Height Bulletins are available at
<http://www.bom.gov.au/qld/flood/> . Flood Warnings are also available on
telephone 1300 659 219 at a low call cost of 27.5 cents, more from mobile,
public and satellite phones.

This message has passed through an insecure network.
Please direct all enquiries to the message author.

Flood Information Centre - Fwd: BOM Alert

From: Ken Morris
To: Flood_Information_Centre
Date: Wednesday, 12 January 2011 10:41:38 am
Subject: Fwd: BOM Alert

+==*

Place: Flood_Information_Centre

+==*

Ken Morris
Principal Engineer, Water & Environment

>>> Flood Information Centre 12 January 2011 6:35 am >>>

BOM: TO::BOM552

RIVER HEIGHT BULLETIN for Brisbane, Pine, Caboolture Rivers and tributaries

Issued at 6.30am on Wednesday, 12 January 2011

Bureau of Meteorology, Brisbane

Station Name Time Height Trend Crossing

Stanley/Upper Brisbane

Stanley R at Peachester # 6.25am 5.72 F
Stanley R at Peachester * 5.20am 6.03 F
Stanley R at Woodford * 5.40am 7.77 F 1.37 above bridge
Stanley R at Woodford # 6.28am 7.60 F 1.20 above bridge
Stanley R at Woodford # 6.29am 7.62 F 1.22 above bridge
Brisbane R at Linville # 6.21am 3.72 F
Brisbane R at Devon Hills # 6.24am 4.63 F
Emu Ck at Boat Mountain # 6.28am 4.20 F
Emu Ck at Boat Mountain * 5.20am 4.37 F
Brisbane R at Gregor Ck # 6.23am 6.08 F
Brisbane R at Gregor Ck * 5.30am 3.45 F
Cressbrook Ck at Rosentreter Br # 6.21am 5.22 F
Cressbrook Ck at Rosentreter Br * 5.00am 5.32 F

Lower Brisbane

Sandy Creek at Sandy Creek Road # 6.19am 2.05 R 0.15 above crossing
 Laidley Ck at Showground Weir # 6.28am 7.02 F 2.87 above weir
 Laidley Ck at Showground Weir * 5.40am 7.45 F 3.30 above weir
 Laidley Ck at Warrego Hwy * 5.00am 6.86 F
 Lockyer Ck at Glenore Grove # 6.28am 13.32 F
 Lockyer Ck at Lyons Br # 6.27am 16.41 F
 Lockyer Ck at Rifle Range Rd * 5.40am 16.55 F
 Brisbane R at Savages Crossing # 6.29am 23.69 R 20.79 above bridge
 Brisbane R at Savages Crossing * 5.40am 23.85 F 20.95 above bridge
 Brisbane R at Mt Crosby # 6.21am 25.69 13.34 above bridge
 Bremer R at Spresters Br # 6.25am 5.72 F 0.92 above bridge
 Bremer R at Rosewood# 6.27am 5.81 F 0.61 above bridge
 Bremer R at Rosewood # 6.26am 5.84 F 0.64 above bridge
 Bremer R at Five Mile Br Walloon # 6.24am 7.54 F 3.04 above approaches
 Bremer R at Walloon Derm * 5.40am 9.58 F
 Warrill Ck at Kalbar Weir Hw # 6.27am 78.87 R 4.10 above weir
 Warrill Ck at Kalbar Weir Hw * 5.15am 78.86 F 4.09 above weir
 Warrill Ck at Kalbar Weir Tw * 5.40am 8.52 F
 Warrill Ck at Harrisville# 5.40am 5.50 F At Level of bridge
 Warrill Ck at Harrisville # 6.11am 5.64 F 0.14 above bridge
 Warrill Ck at Churchbank Weir # 5.12am 3.41 F 3.41 above weir
 Warrill Ck at Churchbank Weir * 5.00am 3.40 S 3.40 above weir
 Warrill Ck at Greens Rd Amberley # 6.28am 8.04 S
 Warrill Ck at Amberley Dnr * 5.20am 9.20 R
 Purga Ck at Peak Crossing # 5.50am 1.96 F 3.14 below bridge
 Purga Ck at Loamside * 5.40am 7.30 F
 Bremer R at One Mile Br # 6.06am 21.10 F 3.90 above bridge
 Bremer R at Ipswich # 6.13am 18.65 R 6.23 below bridge
 Brisbane R at Moggill # 6.24am 16.57 R
 Brisbane R at Moggill # 6.29am 16.42 R
 Brisbane R at Jindalee Br # 6.17am 11.20 R
 Brisbane R at City Gauge # 4.45am 3.11 R

Ipswich/Brisbane Creeks

Deebing Creek at Churchill # 6.08am 8.05 F
 Bundamba Ck Harding St Raceview # 6.10am 23.53 F
 Bundamba Ck at Blackstone Br # 5.27am 18.14 F 2.66 below bridge
 Bundamba Ck at Bundamba School # 6.27am 17.78 R 1.48 above bridge
 Woogaroo Ck at Opossum # 6.10am 21.20 F
 Oxley Ck New Beith Rd Greenbank * 5.40am 2.83 F
 Oxley Ck Beatty Rd Archerfield # 6.22am 6.52 R
 Stable Swamp Ck Musgrave Rd # 6.27am 6.81 R
 Oxley Ck Corinda High # 6.24am 6.77 R
 Rocky Waterholes at Muriel Ave # 6.18am 6.56 R
 Oxley Ck Mouth # 6.22am 7.44 R
 Norman Ck Caswell St E Brisbane # 6.03am 2.27 F
 Moggill Ck Fortrose St Kenmore # 6.27am 11.21 R
 Enoggera Reservoir # 6.27am 76.48 S 2.11 above full supply

Enoggera Ck Bancroft Pk K Grove # 6.20am 3.24 F
Breakfast Ck Mouth # 5.59am 1.80 F

Pine/Caboolture

North Pine R at Youngs Crossing# 6.28am 6.52 F

Trend

S steady RS rising slowly FS falling slowly

P peak R rising F falling

EP estimated peak RF rising fast FF falling fast

Notes:

1. All heights are in metres.
 2. Stations marked with [^] indicate heights above AHD.
 3. Data from automatic stations [* or #] have not been checked & may have errors.
 4. This product includes data made available to the Bureau by other agencies.
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This message has passed through an insecure network.

Please direct all enquiries to the message author.

BOM Alert

From: Flood Information Centre [REDACTED]
To: Flood Information Centre [REDACTED]
Date: Wed, 12 Jan 2011 12:05:09 +1000

BOM:

Australian Government Bureau of Meteorology

Queensland

BROADCASTERS ARE REQUESTED TO USE THE STANDARD EMERGENCY
WARNING SIGNAL BEFORE

BROADCASTING.

PRIORITY - FOR IMMEDIATE BROADCAST

FLOOD WARNING FOR THE LOCKYER, BREMER, WARRILL AND BRISBANE RIVER
BELOW WIVENHOE

INCLUDING BRISBANE CITY

Issued at 11:56 AM on Wednesday the 12th of January 2011

by the Bureau of Meteorology, Brisbane.

IPSWICH: At 11:30 am Wednesday, flood levels at Ipswich are at 19.3 metres and
rising. A peak is expected this afternoon of about 20.5 metres. This is similar
to the 1974 flood level.

BRISBANE: At 11:45am Wednesday, the Brisbane City gauge (lower end of Edward

Street and at Thornton Street) was 3.75 metres and rising. Rises will continue during Wednesday afternoon and overnight.

At the Brisbane City gauge, river levels of about 4.5 metres (major) are expected with the high tide on Wednesday afternoon. River rises will continue into Thursday with a peak of about 5.5 metres expected with the high tides at 4am and 4pm. Levels will remain high throughout Thursday. This is similar to the 1974 flood peak of 5.45 metres.

Wivenhoe dam is providing significant mitigation of upper Brisbane floods. River flows from the Bremer and Lockyer catchments combined with releases from Wivenhoe dam will continue to increase flood levels in Brisbane during the next 24 hours.

LOCKYER CREEK:

Major flooding will continue this morning in the Lockyer Creek catchment with levels expected to start falling significantly today.

WARRILL CREEK:

Major flooding continues from Kalbar to Amberley. A flood peak to just over 8 metres is occurring at Amberley today.

BREMER RIVER

Major flooding is easing along the Bremer River from Rosewood to Walloon.

The Bremer River at Ipswich is expected to peak about 20.5 metres during Wednesday afternoon with major flooding. This is similar to the 1974 flood level.

MIDDLE AND LOWER BRISBANE:

Major flooding is rising from the Savages Crossing area to Jindalee along the Brisbane River.

At Savages Crossing, a major flood peak of 24.2 metres has been recorded early Wednesday morning, slightly above the 1974 peak level at this location.

At the Brisbane City Gauge (lower end of Edward Street and at Thornton Street), moderate flood levels of about 3 metres were recorded with the 3am high tide.

Higher flood levels to 4.5 metres (major) are expected with the high tide on Wednesday afternoon (3pm). River rises will continue into Thursday with a peak of about 5.5 metres expected with the high tides at 4am and 4pm. Levels will remain high throughout Thursday. This is similar to the 1974 flood peak of 5.45 metres.

Predicted River Heights/Flows:

Ipswich: Peak about 20.5 metres (major) during Wednesday afternoon.

Moggill: Peak about 20 metres (moderate) during Wednesday afternoon.

Jindalee: Peak about 14.2 metres (moderate) by midnight.

Brisbane City: Reach about 4.5 metres (major) at 3pm Wednesday.

Peak about 5.5 metres (major) during Thursday.

Fall below major flood level during Friday.

Next Issue:

The next warning will be issued at about 4pm Wednesday.

Latest River Heights:

Laidley Ck at Laidley 5.1m steady 08:45 AM WED 12/01/11

Laidley Ck at Showground Weir # 5.92m falling 11:34 AM WED 12/01/11

Laidley Ck at Warrego Hwy * 6.19m falling 10:00 AM WED 12/01/11

Lockyer Ck at Glenore Grove # 12.02m falling 11:36 AM WED 12/01/11

Lockyer Ck at Rifle Range Rd * 16.5m falling 08:20 AM WED 12/01/11

Brisbane R at Savages Crossing * 23.25m falling 08:20 AM WED 12/01/11

Brisbane R at Kholo Br # 12.77m rising 03:28 PM TUE 11/01/11

Brisbane R at Colleges Crossing # 15.81m rising 04:05 PM TUE 11/01/11

Bremer R at Rosewood # 5.08m falling 11:32 AM WED 12/01/11

Bremer R at Walloon DERM * 8.55m falling 10:30 AM WED 12/01/11

Warrill Ck at Amberley DNR * 9.25m steady 08:00 AM WED 12/01/11

Bremer R at Ipswich # 19.3m rising 11:27 AM WED 12/01/11

Brisbane R at Moggill # 17.42m rising 11:20 AM WED 12/01/11

Brisbane R at Jindalee Br # 12.25m rising 11:35 AM WED 12/01/11

Brisbane R at City Gauge # 3.7m rising 11:15 AM WED 12/01/11

*automatic station

Warnings and River Height Bulletins are available at

<http://www.bom.gov.au/qld/flood/> . Flood Warnings are also available on telephone 1300 659 219 at a low call cost of 27.5 cents, more from mobile, public and satellite phones.

This message has passed through an insecure network.

Please direct all enquiries to the message author.

BOM Alert

From: Flood Information Centre
To: Flood Information Centre
Date: Wed, 12 Jan 2011 12:35:49 +1000

BOM: TO::BOM552

RIVER HEIGHT BULLETIN for Brisbane, Pine, Caboolture Rivers and tributaries

Issued at 12.31pm on Wednesday, 12 January 2011

Bureau of Meteorology, Brisbane

| Station Name | Time | Height | Trend | Crossing |
|--------------|------|--------|-------|----------|
|--------------|------|--------|-------|----------|

Stanley/Upper Brisbane

| | | | | |
|-------------------------|---------|------|---|-------------------|
| Stanley R at Woodford * | 12.00pm | 6.63 | F | 0.23 above bridge |
|-------------------------|---------|------|---|-------------------|

| | | | | |
|-------------------------|---------|------|---|-------------------|
| Stanley R at Woodford # | 12.28pm | 6.56 | F | 0.16 above bridge |
|-------------------------|---------|------|---|-------------------|

| | | | | |
|-------------------------|---------|------|---|-------------------|
| Stanley R at Woodford # | 12.20pm | 6.60 | F | 0.20 above bridge |
|-------------------------|---------|------|---|-------------------|

| | | | | |
|--------------------------|---------|------|---|--|
| Brisbane R at Linville # | 12.18pm | 3.22 | F | |
|--------------------------|---------|------|---|--|

| | | | | |
|--------------------------|---------|------|---|--|
| Brisbane R at Linville * | 11.40am | 3.29 | F | |
|--------------------------|---------|------|---|--|

| | | | | |
|-----------------------------|---------|------|---|--|
| Brisbane R at Devon Hills # | 12.18pm | 4.09 | F | |
|-----------------------------|---------|------|---|--|

| | | | | |
|---------------------------|---------|------|---|--|
| Brisbane R at Gregor Ck # | 12.14pm | 5.14 | F | |
|---------------------------|---------|------|---|--|

| | | | | |
|-------------------------------------|---------|------|---|--|
| Cressbrook Ck at Rosentreter's Br # | 12.19pm | 4.84 | S | |
|-------------------------------------|---------|------|---|--|

| | | | | |
|-------------------------------------|---------|------|---|--|
| Cressbrook Ck at Rosentreter's Br * | 11.00am | 4.93 | F | |
|-------------------------------------|---------|------|---|--|

Lower Brisbane

| | | | | |
|-----------------------------------|---------|------|---|----------------------|
| Sandy Creek at Sandy Creek Road # | 11.47am | 1.90 | S | At Level of crossing |
|-----------------------------------|---------|------|---|----------------------|

Laidley Ck at Laidley 8.45am 5.10 S 3.40 below bridge
 Laidley Ck at Showground Weir # 12.25pm 5.86 F 1.71 above weir
 Laidley Ck at Showground Weir * 12.00pm 5.86 S 1.71 above weir
 Laidley Ck at Warrego Hwy * 11.00am 6.01 F
 Lockyer Ck at Glenore Grove # 12.28pm 11.76 F
 Lockyer Ck at Lyons Br # 12.18pm 15.91 F
 Lockyer Ck at Rifle Range Rd * 11.40am 16.39 F
 Brisbane R at Savages Crossing # 12.26pm 21.43 F 18.53 above bridge
 Brisbane R at Savages Crossing * 12.00pm 21.72 F 18.82 above bridge
 Brisbane R at Mt Crosby # 12.18pm 26.14 13.79 above bridge
 Bremer R at Spresters Br # 12.21pm 5.17 F 0.37 above bridge
 Western Ck at Rosewood Wwtp # 12.29pm 5.63 S 1.62 below approaches
 Bremer R at Rosewood# 12.21pm 4.96 F 0.24 below bridge
 Bremer R at Rosewood # 12.26pm 4.98 F 0.22 below bridge
 Bremer R at Five Mile Br Walloon # 12.27pm 6.26 F 1.76 above approaches
 Bremer R at Walloon Derm * 11.40am 8.26 F
 Warrill Ck at Kalbar Weir Hw # 12.27pm 78.11 F 3.34 above weir
 Warrill Ck at Kalbar Weir Hw * 11.30am 78.27 F 3.50 above weir
 Warrill Ck at Kalbar Weir Tw * 11.35am 7.99 F
 Warrill Ck at Harrisville# 11.44am 5.20 F 0.30 below bridge
 Warrill Ck at Harrisville # 11.47am 5.34 F 0.16 below bridge
 Warrill Ck at Churchbank Weir # 11.54am 3.16 F 3.16 above weir
 Warrill Ck at Churchbank Weir * 12.00pm 3.13 F 3.13 above weir

Warrill Ck at Greens Rd Amberley # 12.29pm 8.04 F
 Warrill Ck at Amberley Dnr * 12.00pm 9.24 S
 Purga Ck at Loamside * 11.40am 6.38 F
 Bremer R at One Mile Br # 12.13pm 20.60 F 3.40 above bridge
 Bremer R at Ipswich # 11.55am 19.35 R 5.53 below bridge
 Bremer R at Ipswich 11.19am 19.10 R 5.78 below bridge
 Brisbane R at Moggill # 12.00pm 17.67 R
 Brisbane R at Moggill # 12.05pm 17.52 R
 Brisbane R at Jindalee Br # 12.26pm 12.35 R
 Brisbane R at City Gauge # 12.18pm 3.86 R
 Ipswich/Brisbane Creeks
 Deebing Creek at Churchill # 12.18pm 7.50 F
 Bundamba Ck at Blackstone Br # 12.23pm 18.69 R 2.11 below bridge
 Bundamba Ck at Bundamba School # 12.20pm 18.83 R 2.53 above bridge
 Woogaroo Ck at Opossum # 10.45am 20.95 F
 Oxley Ck New Beith Rd Greenbank * 12.00pm 2.45 F
 Oxley Ck Beatty Rd Archerfield # 12.17pm 7.58 R
 Blunder Ck King Ave Durack # 11.50am 7.49 R
 Stable Swamp Ck Musgrave Rd # 12.23pm 7.89 R
 Oxley Ck Corinda High # 12.21pm 7.82 R
 Rocky Waterholes at Muriel Ave # 11.52am 7.48
 Oxley Ck Mouth # 11.53am 8.35
 Norman Ck Caswell St E Brisbane # 12.26pm 2.71 R

Moggill Ck Fortrose St Kenmore # 8.35am 11.69 R

Enoggera Reservoir # 12.25pm 76.04 S 1.67 above full supply

Breakfast Ck Railway Bowen Hills # 12.08pm 2.22 R

Breakfast Ck Mouth # 12.15pm 2.24 R

Pine/Caboolture

North Pine R at Youngs Crossing# 10.19am 6.42 S

Trend

S steady RS rising slowly FS falling slowly

P peak R rising F falling

EP estimated peak RF rising fast FF falling fast

Notes:

1. All heights are in metres.
2. Stations marked with [^] indicate heights above AHD.
3. Data from automatic stations [* or #] have not been checked & may have errors.
4. This product includes data made available to the Bureau by other agencies.

Separate approval may be required to use the data for other purposes. Refer to

Flood Gauge Information for station ownership.

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Please direct all enquiries to the message author.

BOM Alert

From: Flood Information Centre [REDACTED]
To: Flood Information Centre [REDACTED]
Date: Wed, 12 Jan 2011 15:35:28 +1000

BOM: TO::BOM552

RIVER HEIGHT BULLETIN for Brisbane, Pine, Caboolture Rivers and tributaries

Issued at 3.31pm on Wednesday, 12 January 2011

Bureau of Meteorology, Brisbane

| Station Name | Time | Height | Trend | Crossing |
|--------------|------|--------|-------|----------|
|--------------|------|--------|-------|----------|

Stanley/Upper Brisbane

| | | | | |
|-------------------------|--------|------|---|-------------------|
| Stanley R at Woodford * | 2.40pm | 6.34 | F | 0.06 below bridge |
|-------------------------|--------|------|---|-------------------|

| | | | | |
|-------------------------|--------|------|---|-------------------|
| Stanley R at Woodford # | 3.22pm | 6.26 | F | 0.14 below bridge |
|-------------------------|--------|------|---|-------------------|

| | | | | |
|-------------------------|--------|------|---|-------------------|
| Stanley R at Woodford # | 3.23pm | 6.28 | F | 0.12 below bridge |
|-------------------------|--------|------|---|-------------------|

| | | | | |
|--------------------------|--------|------|---|--|
| Brisbane R at Linville # | 3.11pm | 3.06 | S | |
|--------------------------|--------|------|---|--|

| | | | | |
|--------------------------|---------|------|---|--|
| Brisbane R at Linville * | 11.40am | 3.29 | F | |
|--------------------------|---------|------|---|--|

| | | | | |
|-----------------------------|--------|------|---|--|
| Brisbane R at Devon Hills # | 3.24pm | 3.89 | F | |
|-----------------------------|--------|------|---|--|

| | | | | |
|---------------------------|--------|------|---|--|
| Brisbane R at Gregor Ck # | 3.23pm | 4.82 | F | |
|---------------------------|--------|------|---|--|

| | | | | |
|-------------------------------------|--------|------|---|--|
| Cressbrook Ck at Rosentreter's Br # | 3.24pm | 4.66 | F | |
|-------------------------------------|--------|------|---|--|

| | | | | |
|-------------------------------------|--------|------|---|--|
| Cressbrook Ck at Rosentreter's Br * | 2.00pm | 4.75 | S | |
|-------------------------------------|--------|------|---|--|

Lower Brisbane

| | | | | |
|-----------------------------------|--------|------|---|---------------------|
| Sandy Creek at Sandy Creek Road # | 2.13pm | 1.85 | F | 0.05 below crossing |
|-----------------------------------|--------|------|---|---------------------|

Laidley Ck at Showground Weir # 3.19pm 5.66 F 1.51 above weir
 Laidley Ck at Showground Weir * 2.30pm 5.66 F 1.51 above weir
 Laidley Ck at Warrego Hwy * 2.00pm 5.56 F
 Lockyer Ck at Glenore Grove # 3.20pm 10.66 F
 Lockyer Ck at Lyons Br # 3.21pm 15.69 R
 Lockyer Ck at Rifle Range Rd * 2.40pm 16.29 R
 Brisbane R at Savages Crossing # 3.26pm 20.23 F 17.33 above bridge
 Brisbane R at Savages Crossing * 2.50pm 20.62 F 17.72 above bridge
 Brisbane R at Mt Crosby # 3.21pm 25.49 13.14 above bridge
 Bremer R at Spresters Br # 3.04pm 4.82 F 0.02 above bridge
 Western Ck at Rosewood Wwtp # 3.29pm 5.18 S 2.07 below approaches
 Bremer R at Rosewood# 3.14pm 4.66 F 0.54 below bridge
 Bremer R at Rosewood # 3.23pm 4.68 F 0.52 below bridge
 Bremer R at Five Mile Br Walloon # 3.24pm 5.36 F 0.86 above approaches
 Bremer R at Walloon Derm * 2.40pm 7.38 F
 Warrill Ck at Kalbar Weir Hw # 3.27pm 77.65 F 2.88 above weir
 Warrill Ck at Kalbar Weir Hw * 2.30pm 77.80 F 3.03 above weir
 Warrill Ck at Kalbar Weir Tw * 2.40pm 7.50 F
 Warrill Ck at Kalbar 3.00pm 8.90 FS 1.90 above bridge
 Warrill Ck at Harrisville# 1.41pm 5.10 F 0.40 below bridge
 Warrill Ck at Harrisville # 2.59pm 5.20 F 0.30 below bridge
 Warrill Ck at Churchbank Weir # 1.29pm 3.12 S 3.12 above weir
 Warrill Ck at Churchbank Weir * 2.30pm 3.03 F 3.03 above weir

Warrill Ck at Greens Rd Amberley # 3.29pm 7.78 F
 Warrill Ck at Amberley Dnr * 2.40pm 9.10 F
 Purga Ck at Loamside * 2.40pm 5.81 F
 Bremer R at One Mile Br # 3.09pm 20.30 F 3.10 above bridge
 Bremer R at Ipswich # 2.27pm 19.40 S 5.48 below bridge
 Bremer R at Ipswich 1.15pm 19.22 RS 5.66 below bridge
 Brisbane R at Moggill # 3.29pm 17.87 R
 Brisbane R at Moggill # 3.23pm 17.67 S
 Brisbane R at Jindalee Br # 3.20pm 12.70 R
 Brisbane R at City Gauge # 3.21pm 4.20 R
 Ipswich/Brisbane Creeks
 Deebing Creek at Churchill # 3.10pm 7.20 F
 Bundamba Ck at Blackstone Br # 3.19pm 18.84 R 1.96 below bridge
 Bundamba Ck at Bundamba School # 2.16pm 18.98 R 2.68 above bridge
 Woogaroo Ck at Opossum # 2.49pm 20.80 F
 Oxley Ck New Beith Rd Greenbank * 2.30pm 2.36 F
 Oxley Ck Beatty Rd Archerfield # 3.11pm 8.10 S
 Blunder Ck King Ave Durack # 3.07pm 8.07 R
 Stable Swamp Ck Musgrave Rd # 3.28pm 8.45 R
 Oxley Ck Corinda High # 3.24pm 8.37 R
 Rocky Waterholes at Muriel Ave # 3.24pm 8.06 R
 Oxley Ck Mouth # 3.15pm 8.78 R
 Norman Ck Caswell St E Brisbane # 3.20pm 3.06 R

Moggill Ck Fortrose St Kenmore # 2.48pm 11.69 S

Enoggera Reservoir # 3.28pm 75.86 S 1.49 above full supply

Breakfast Ck Railway Bowen Hills # 2.28pm 2.52 R

Breakfast Ck Mouth # 3.17pm 2.51

Pine/Caboolture

North Pine R at Youngs Crossing# 3.25pm 6.02 F

Trend

S steady RS rising slowly FS falling slowly

P peak R rising F falling

EP estimated peak RF rising fast FF falling fast

Notes:

1. All heights are in metres.
2. Stations marked with [^] indicate heights above AHD.
3. Data from automatic stations [* or #] have not been checked & may have errors.
4. This product includes data made available to the Bureau by other agencies.

Separate approval may be required to use the data for other purposes. Refer to

Flood Gauge Information for station ownership.

This message has passed through an insecure network.

Please direct all enquiries to the message author.

BOM Alert

From: Flood Information Centre [REDACTED]
To: Flood Information Centre [REDACTED]
Date: Wed, 12 Jan 2011 16:34:40 +1000

BOM:

Australian Government Bureau of Meteorology

Queensland

BROADCASTERS ARE REQUESTED TO USE THE STANDARD EMERGENCY
WARNING SIGNAL BEFORE

BROADCASTING.

PRIORITY - FOR IMMEDIATE BROADCAST

FLOOD WARNING FOR THE LOCKYER, BREMER, WARRILL AND BRISBANE RIVER
BELOW WIVENHOE

INCLUDING BRISBANE CITY

Issued at 4:29 PM on Wednesday the 12th of January 2011

by the Bureau of Meteorology, Brisbane.

IPSWICH: At 4pm Wednesday, flood levels at Ipswich are at 19.4 metres and
steady. Based on upstream peak levels, it is likely to peak at around current
levels which will be maintained into this evening.

BRISBANE: At 4pm Wednesday, the Brisbane City gauge (lower end of Edward Street

and at Thornton Street) was 4.3 metres and rising. Rises will continue during Wednesday afternoon and overnight.

At the Brisbane City gauge, river rises will continue this evening with a peak of about 5.2 metres expected with the high tide at 4am. Levels will remain high throughout Thursday.

This is below the 1974 flood peak of 5.45 metres as releases at Wivenhoe Dam were reduced quickly overnight.

LOCKYER CREEK:

Minor to major flooding will continue this afternoon in the Lockyer Creek catchment with levels expected to start falling significantly today.

WARRILL CREEK:

Major flooding continues from Kalbar to Amberley. A flood peak just over 8 metres occurred at Amberley today.

BREMER RIVER

Moderate to minor flooding is easing along the Bremer River from Rosewood to Walloon.

The Bremer River at Ipswich is currently at 19.4 metres, and is expected to peak up to 19.5 metres during Wednesday evening with major flooding. This is around 1.2 metres below the 1974 flood level.

MIDDLE AND LOWER BRISBANE:

Major flooding is rising from the Moggill area to Brisbane City along the Brisbane River.

At Mount Crosby Weir, a major flood peak of 26.2 metres was recorded on Wednesday morning, slightly below the 1974 peak level at this location.

At the Brisbane City Gauge (lower end of Edward Street and at Thornton Street), flood levels reached 4.2 metres on the 3pm high tide with major flooding. River rises will continue this evening with a peak of about 5.2 metres expected with the high tide at 4am Thursday. This is slightly below to the 1974 flood peak of 5.45 metres. Levels will remain high throughout Thursday.

Predicted River Heights/Flows:

Ipswich: Peak around 19.5 metres (major) during Wednesday evening.

Moggill: Peak around 18.5 metres (major) during Wednesday afternoon.

Jindalee: Peak about 13 metres (major) by midnight.

Brisbane City: Peak about 5.2 metres (major) with the high tide at 4am Thursday.

Fall below major flood level during Friday.

Next Issue:

The next warning will be issued at about 8pm Wednesday.

Latest River Heights:

Laidley Ck at Showground Weir # 5.66m falling 03:10 PM WED 12/01/11

Laidley Ck at Warrego Hwy * 5.56m falling 02:00 PM WED 12/01/11

Lockyer Ck at Glenore Grove # 10.72m falling 03:11 PM WED 12/01/11

Lockyer Ck at Rifle Range Rd * 16.29m rising 02:40 PM WED 12/01/11
Brisbane R at Savages Crossing * 20.62m falling 02:50 PM WED 12/01/11
Brisbane R at Colleges Crossing # 15.81m falling 04:05 PM TUE 11/01/11
Bremer R at Rosewood # 4.7m falling 03:08 PM WED 12/01/11
Bremer R at Walloon DERM * 7.38m falling 02:40 PM WED 12/01/11
Warrill Ck at Amberley DNR * 9.1m falling 02:40 PM WED 12/01/11
Bremer R at Ipswich # 19.4m rising 04:00 PM WED 12/01/11
Brisbane R at Moggill # 17.67m rising 03:11 PM WED 12/01/11
Brisbane R at Jindalee Br # 12.7m rising 03:11 PM WED 12/01/11
Brisbane R at City Gauge # 4.3m rising 04:00 PM WED 12/01/11

*automatic station

Warnings and River Height Bulletins are available at

<http://www.bom.gov.au/qld/flood/> . Flood Warnings are also available on
telephone 1300 659 219 at a low call cost of 27.5 cents, more from mobile,
public and satellite phones.

This message has passed through an insecure network.

Please direct all enquiries to the message author.

BOM Alert

From: Flood Information Centre [REDACTED]
To: Flood Information Centre [REDACTED]
Date: Wed, 12 Jan 2011 17:55:03 +1000

BOM:

Australian Government Bureau of Meteorology

Queensland

FLOOD WARNING FOR THE STANLEY RIVER AND BRISBANE RIVER ABOVE
WIVENHOE DAM

Issued at 5:46 PM on Wednesday the 12th of January 2011

by the Bureau of Meteorology, Brisbane.

Rainfall has now eased over the catchment.

Moderate flooding continues to ease in the Stanley River at Woodford. Minor to

moderate flooding continues to ease on the Upper Brisbane River between Linville

and Gregor Creek. Moderate flooding is easing on Cressbrook Creek at

Rosentreeters.

River levels will continue to fall during Wednesday.

Next Issue:

The next warning will be issued at about 9am Thursday.

Latest River Heights:

Stanley R at Peachester # 3.12m falling 05:10 PM WED 12/01/11

Stanley R at Woodford # 6.1m falling 05:23 PM WED 12/01/11

Kilcoy Ck d/s Mt Kilcoy Weir # 2.97m steady 05:23 PM WED 12/01/11

Stanley R at Somerset Dam HW # 104.7m falling 05:17 PM WED 12/01/11

Cooyar Ck at Cooyar Ck # 2.82m falling 05:00 PM WED 12/01/11

Brisbane R at Linville # 2.96m falling 05:18 PM WED 12/01/11

Brisbane R at Devon Hills # 3.77m falling 05:24 PM WED 12/01/11

Emu Ck at Boat Mountain # 3.36m falling 05:22 PM WED 12/01/11

Maronghi Ck at Glendale * 2.18m steady 04:00 PM WED 12/01/11

Brisbane R at Gregor Ck # 4.66m falling 05:23 PM WED 12/01/11

Cressbrook Ck at Rosentreter Br * 4.66m falling 04:00 PM WED 12/01/11


#, * from automatic station

Flood Warnings are also available on telephone 1300 659 219 at a low call cost

of 27.5 cents, more from mobile, public and satellite phones.

This message has passed through an insecure network.

Please direct all enquiries to the message author.

| | | |
|---|---|---------------------------|
|  | Brisbane Infrastructure Integrated Management System Flood Information Centre FIC Record of Conversation | CD F 101 005 |
| | | Date: 31 October 2008 |
| | | Rev no: 1A |
| | | Rev date: 31 October 2009 |
| | | Page 1 of 1 |

| | | | |
|-----------------|---------------------|------------|-----------------|
| Date: 12/1/2011 | Employee No: 074840 | Shift: 1 # | Page No: / of / |
|-----------------|---------------------|------------|-----------------|

| | |
|-------------------------------|---------------------------|
| Contact name: Santina Pennisi | Operations Log Serial No: |
| Organisation/Division | Phone No |
| In-coming Call | Subject |
| Out-going Call 4pm | BOM predictions Tues/Wed |

Conversation Details:

FIC phoned BOM, Ken Morris + Santina Pennisi spoke with Peter Baddiley (BOM).
BOM about to review 4pm warning.

Ipswich 19.5 4pm warning

Moggil 18.5

Jindalee 13 midnight

BrisCity 5.2 4am high tide

- Dam release reduced. Floodplain Storage in lower Brisbane. In effect - attenuation in floodplain - much lower volume in hydrograph. Steeper recession in falling hydrograph.
- Need to wait for SCQ Strategy - slower recession due to releases
- SCQ water to model release + then check with BOM + then BOM model will be pushed to public site.

END

Sign Off: FIC Controller

BOM Alert

From: Flood Information Centre [REDACTED]
To: Flood Information Centre [REDACTED]
Date: Wed, 12 Jan 2011 18:35:26 +1000

BOM: TO::BOM552

RIVER HEIGHT BULLETIN for Brisbane, Pine, Caboolture Rivers and tributaries

Issued at 6.30pm on Wednesday, 12 January 2011

Bureau of Meteorology, Brisbane

| Station Name | Time | Height | Trend | Crossing |
|--------------|------|--------|-------|----------|
|--------------|------|--------|-------|----------|

Stanley/Upper Brisbane

Stanley R at Woodford * 2.50pm 6.31 F 0.09 below bridge

Stanley R at Woodford # 6.28pm 6.00 F 0.40 below bridge

Stanley R at Woodford # 6.14pm 6.04 F 0.36 below bridge

Brisbane R at Linville # 6.18pm 2.92 F

Brisbane R at Linville * 2.40pm 3.11 F

Brisbane R at Devon Hills # 5.59pm 3.75 S

Brisbane R at Gregor Ck # 6.23pm 4.58 F

Cressbrook Ck at Rosentreter's Br # 6.19pm 4.50 S

Cressbrook Ck at Rosentreter's Br * 5.00pm 4.59 F

Lower Brisbane

Sandy Creek at Sandy Creek Road # 5.12pm 1.80 S 0.10 below crossing

Laidley Ck at Showground Weir # 6.16pm 5.52 F 1.37 above weir

Laidley Ck at Showground Weir * 5.20pm 5.53 F 1.38 above weir

Laidley Ck at Warrego Hwy * 5.00pm 5.20 F

Lockyer Ck at Glenore Grove # 6.27pm 9.68 F

Lockyer Ck at Lyons Br # 6.24pm 15.75 R

Lockyer Ck at Rifle Range Rd * 5.40pm 16.15 F

Brisbane R at Savages Crossing # 6.23pm 19.11 F 16.21 above bridge

Brisbane R at Savages Crossing * 5.40pm 19.52 F 16.62 above bridge

Brisbane R at Mt Crosby # 6.21pm 24.82 12.47 above bridge

Bremer R at Spressers Br # 6.09pm 4.47 F 0.33 below bridge

Western Ck at Rosewood Wwtp # 6.29pm 4.63 S 2.62 below approaches

Bremer R at Rosewood# 6.28pm 4.36 F 0.84 below bridge

Bremer R at Rosewood # 6.23pm 4.40 F 0.80 below bridge

Bremer R at Five Mile Br Walloon # 6.24pm 4.64 F 0.14 above approaches

Bremer R at Walloon Derm * 5.40pm 6.52 F

Warrill Ck at Kalbar Weir Hw # 6.27pm 77.19 F 2.42 above weir

Warrill Ck at Kalbar Weir Hw * 5.30pm 77.31 F 2.54 above weir

Warrill Ck at Kalbar Weir Tw * 5.35pm 6.96 F

Warrill Ck at Kalbar 3.00pm 8.90 FS 1.90 above bridge

Warrill Ck at Harrisville# 6.21pm 4.95 F 0.55 below bridge

Warrill Ck at Harrisville # 6.26pm 5.10 F 0.40 below bridge

Warrill Ck at Churchbank Weir # 6.24pm 2.91 F 2.91 above weir

Warrill Ck at Churchbank Weir * 5.00pm 2.93 F 2.93 above weir

Warrill Ck at Greens Rd Amberley # 6.29pm 7.58 R

Warrill Ck at Amberley Dnr * 5.40pm 8.84 F

Purga Ck at Loamside * 5.40pm 5.30 F

Bremer R at One Mile Br # 6.18pm 19.90 F 2.70 above bridge

Bremer R at Hancocks Br Brassall # 2.57pm 21.53 F 7.73 above bridge

Bremer R at Ipswich # 6.15pm 19.25 F 5.63 below bridge

Bremer R at Ipswich 3.45pm 19.25 S 5.63 below bridge

Brisbane R at Moggill # 6.18pm 17.77 F

Brisbane R at Moggill # 6.23pm 17.62 F

Brisbane R at Jindalee Br # 6.20pm 12.85 R

Brisbane R at City Gauge # 6.24pm 4.20 F

Ipswich/Brisbane Creeks

Deebling Creek at Churchill # 6.12pm 6.80 F

Bundamba Ck at Blackstone Br # 6.15pm 18.74 F 2.06 below bridge

Bundamba Ck at Bundamba School # 6.01pm 18.93 F 2.63 above bridge

Woogaroo Ck at Opossum # 5.53pm 20.70 F

Oxley Ck New Beith Rd Greenbank * 5.30pm 2.28 F

Oxley Ck Beatty Rd Archerfield # 6.13pm 8.62 R

Blunder Ck King Ave Durack # 5.58pm 8.55

Stable Swamp Ck Musgrave Rd # 6.15pm 8.91 R

Oxley Ck Corinda High # 6.11pm 8.82 R

Rocky Waterholes at Muriel Ave # 5.41pm 8.41

Oxley Ck Mouth # 6.21pm 9.06 R

Norman Ck Caswell St E Brisbane # 6.11pm 3.01 F

Moggill Ck Fortrose St Kenmore # 2.48pm 11.69 S

Enoggera Reservoir # 6.24pm 75.71 S 1.34 above full supply

Breakfast Ck Railway Bowen Hills # 6.26pm 2.37 F

Breakfast Ck Mouth # 6.26pm 2.31 F

Pine/Caboolture

North Pine R at Youngs Crossing# 5.56pm 5.77 F

Trend

S steady RS rising slowly FS falling slowly

P peak R rising F falling

EP estimated peak RF rising fast FF falling fast

Notes:

1. All heights are in metres.

2. Stations marked with [^] indicate heights above AHD.
3. Data from automatic stations [* or #] have not been checked & may have errors.
4. This product includes data made available to the Bureau by other agencies.

Separate approval may be required to use the data for other purposes. Refer to

Flood Gauge Information for station ownership.

This message has passed through an insecure network.

Please direct all enquiries to the message author.

BOM Alert

From: Flood Information Centre [REDACTED]
To: Flood Information Centre [REDACTED]
Date: Wed, 12 Jan 2011 20:14:49 +1000

BOM:

Australian Government Bureau of Meteorology

Queensland

BROADCASTERS ARE REQUESTED TO USE THE STANDARD EMERGENCY
WARNING SIGNAL BEFORE

BROADCASTING.

PRIORITY - FOR IMMEDIATE BROADCAST

FLOOD WARNING FOR THE LOCKYER, BREMER, WARRILL AND BRISBANE RIVER
BELOW WIVENHOE

INCLUDING BRISBANE CITY

Issued at 8:11 PM on Wednesday the 12th of January 2011

by the Bureau of Meteorology, Brisbane.

IPSWICH: Flood levels at Ipswich peaked at 19.4 metres during Wednesday, and are beginning to fall. River levels are expected to continue falling into Thursday.

BRISBANE: At 8pm Wednesday, the Brisbane City gauge (lower end of Edward Street and at Thornton Street) was 4.2 metres.

At the Brisbane City gauge, river rises will continue this evening with a peak of about 5.2 metres expected with the high tide at 4am. Levels will remain high

throughout Thursday.

This is below the 1974 flood peak of 5.45 metres as releases at Wivenhoe Dam

were reduced quickly during Tuesday night.

LOCKYER CREEK:

Major flooding in the lower Lockyer Creek will continue easing tonight.

WARRILL CREEK:

Moderate to major flooding continues from Kalbar to Amberley, with flood levels

now falling.

BREMER RIVER

Minor flooding is easing along the Bremer River from Rosewood to Walloon.

The Bremer River at Ipswich peaked at 19.4 metres Wednesday afternoon, and is continuing to fall. This peak was around 1.3 metres below the 1974 flood level.

MIDDLE AND LOWER BRISBANE:

Major flooding is rising from the Moggill area to Brisbane City along the Brisbane River.

At Mount Crosby Weir, a major flood peak of 26.2 metres was recorded on

Wednesday morning, slightly below the 1974 peak level at this location.

At Moggill, a peak of 17.9 metres was observed during Wednesday afternoon. This

was about 2 metres below the 1974 peak at this location.

At the Brisbane City Gauge (lower end of Edward Street and at Thornton Street),

flood levels reached 4.2 metres on the 3pm high tide with major flooding. River

rises will continue this evening with a peak of about 5.2 metres expected with

the high tide at 4am Thursday. This is slightly below to the 1974 flood peak of

5.45 metres. Levels will remain high throughout Thursday.

Predicted River Heights/Flows:

Jindalee: Peak about 13 metres (major) by midnight.

Brisbane City: Peak about 5.2 metres (major) with the high tide at 4am

Thursday.

Fall below major flood level during Friday.

Next Issue:

The next warning will be issued at about midnight Wednesday.

Latest River Heights:

Laidley Ck at Showground Weir # 5.46m falling 07:37 PM WED 12/01/11

Laidley Ck at Warrego Hwy * 5.2m falling 05:00 PM WED 12/01/11

Lockyer Ck at Glenore Grove # 9.38m falling 07:37 PM WED 12/01/11

Lockyer Ck at Rifle Range Rd * 16.15m falling 05:40 PM WED 12/01/11

Brisbane R at Savages Crossing * 19.52m falling 05:40 PM WED 12/01/11

Bremer R at Rosewood # 4.32m falling 07:26 PM WED 12/01/11

Bremer R at Walloon DERM * 6.52m falling 05:40 PM WED 12/01/11

Warrill Ck at Amberley DNR * 8.84m falling 05:40 PM WED 12/01/11

Bremer R at Ipswich # 19.05m falling 08:00 PM WED 12/01/11

Brisbane R at Moggill # 17.52m falling 07:20 PM WED 12/01/11

Brisbane R at Jindalee Br # 12.9m rising 07:35 PM WED 12/01/11

Brisbane R at City Gauge # 4.2m steady 08:00 PM WED 12/01/11

Warnings and River Height Bulletins are available at

<http://www.bom.gov.au/qld/flood/> . Flood Warnings are also available on

telephone 1300 659 219 at a low call cost of 27.5 cents, more from mobile,

public and satellite phones.

This message has passed through an insecure network.

Please direct all enquiries to the message author.

BOM Alert

From: Flood Information Centre
To: Flood Information Centre
Date: Wed, 12 Jan 2011 21:40:46 +1000

BOM: TO::BOM552

RIVER HEIGHT BULLETIN for Brisbane, Pine, Caboolture Rivers and tributaries

Issued at 9.30pm on Wednesday, 12 January 2011

Bureau of Meteorology, Brisbane

| Station Name | Time | Height | Trend | Crossing |
|--------------|------|--------|-------|----------|
|--------------|------|--------|-------|----------|

Stanley/Upper Brisbane

| | | | | |
|-------------------------|--------|------|---|-------------------|
| Stanley R at Woodford # | 9.25pm | 5.82 | F | 0.58 below bridge |
|-------------------------|--------|------|---|-------------------|

| | | | | |
|-------------------------|--------|------|---|-------------------|
| Stanley R at Woodford # | 9.17pm | 5.86 | F | 0.54 below bridge |
|-------------------------|--------|------|---|-------------------|

| | | | | |
|--------------------------|--------|------|---|--|
| Brisbane R at Linville # | 9.27pm | 2.80 | F | |
|--------------------------|--------|------|---|--|

| | | | | |
|-----------------------------|--------|------|---|--|
| Brisbane R at Devon Hills # | 9.27pm | 3.57 | F | |
|-----------------------------|--------|------|---|--|

| | | | | |
|---------------------------|--------|------|---|--|
| Brisbane R at Gregor Ck # | 9.23pm | 4.38 | F | |
|---------------------------|--------|------|---|--|

| | | | | |
|-------------------------------------|--------|------|---|--|
| Cressbrook Ck at Rosentreter's Br # | 9.27pm | 4.36 | F | |
|-------------------------------------|--------|------|---|--|

| | | | | |
|-------------------------------------|--------|------|---|--|
| Cressbrook Ck at Rosentreter's Br * | 8.00pm | 4.45 | F | |
|-------------------------------------|--------|------|---|--|

Lower Brisbane

| | | | | |
|-----------------------------------|--------|------|---|---------------------|
| Sandy Creek at Sandy Creek Road # | 9.18pm | 1.70 | F | 0.20 below crossing |
|-----------------------------------|--------|------|---|---------------------|

| | | | | |
|-----------------------------|--------|------|---|--|
| Laidley Ck at Warrego Hwy * | 8.00pm | 4.96 | F | |
|-----------------------------|--------|------|---|--|

| | | | | |
|-------------------------------|--------|------|---|--|
| Lockyer Ck at Glenore Grove # | 9.27pm | 9.00 | F | |
|-------------------------------|--------|------|---|--|

Lockyer Ck at Lyons Br # 9.21pm 15.33 F
 Lockyer Ck at Rifle Range Rd * 8.40pm 15.96 F
 Brisbane R at Savages Crossing # 9.26pm 18.07 F 15.17 above bridge
 Brisbane R at Savages Crossing * 8.40pm 18.48 F 15.58 above bridge
 Brisbane R at Mt Crosby # 9.27pm 23.84 F 11.49 above bridge
 Bremer R at Spresters Br # 9.09pm 4.22 F 0.58 below bridge
 Western Ck at Rosewood Wwtp # 9.29pm 4.23 S 3.02 below approaches
 Bremer R at Rosewood# 8.41pm 4.21 F 0.99 below bridge
 Bremer R at Rosewood # 9.23pm 4.20 F 1.00 below bridge
 Bremer R at Five Mile Br Walloon # 9.24pm 4.16 F 0.34 below approaches
 Bremer R at Walloon Derm * 8.00pm 5.97 F
 Warrill Ck at Kalbar Weir Hw # 9.27pm 76.79 F 2.02 above weir
 Warrill Ck at Kalbar Weir Hw * 8.00pm 76.93 F 2.16 above weir
 Warrill Ck at Kalbar Weir Tw * 8.40pm 6.45 F
 Warrill Ck at Harrisville# 8.45pm 4.90 F 0.60 below bridge
 Warrill Ck at Harrisville # 9.29pm 5.04 F 0.46 below bridge
 Warrill Ck at Churchbank Weir # 7.48pm 2.87 F 2.87 above weir
 Warrill Ck at Churchbank Weir * 8.30pm 2.83 F 2.83 above weir
 Warrill Ck at Greens Rd Amberley # 9.28pm 7.28 S
 Warrill Ck at Amberley Dnr * 8.40pm 8.48 F
 Purga Ck at Loamside * 8.40pm 4.81 F
 Bremer R at One Mile Br # 9.21pm 19.40 F 2.20 above bridge
 Bremer R at Hancocks Br Brassall # 9.14pm 20.93 F 7.13 above bridge

Bremer R at Ipswich # 9.20pm 18.90 F 5.98 below bridge

Brisbane R at Moggill # 9.17pm 17.47 F

Brisbane R at Moggill # 9.17pm 17.32 F

Brisbane R at Jindalee Br # 9.29pm 12.80 F

Brisbane R at City Gauge # 8.24pm 4.16 F

Ipswich/Brisbane Creeks

Deebling Creek at Churchill # 9.18pm 6.30 F

Bundamba Ck at Blackstone Br # 9.04pm 18.49 F 2.31 below bridge

Bundamba Ck at Bundamba School # 9.19pm 18.63 F 2.33 above bridge

Woogaroo Ck at Opossum # 9.19pm 20.65 F

Oxley Ck New Beith Rd Greenbank * 8.30pm 2.20 F

Oxley Ck Beatty Rd Archerfield # 9.09pm 8.98 R

Blunder Ck King Ave Durack # 8.15pm 8.85

Stable Swamp Ck Musgrave Rd # 9.24pm 9.27 R

Oxley Ck Corinda High # 9.18pm 9.17 R

Rocky Waterholes at Muriel Ave # 9.29pm 8.81 R

Oxley Ck Mouth # 9.10pm 9.21 R

Norman Ck Caswell St E Brisbane # 6.52pm 2.96 F

Moggill Ck Fortrose St Kenmore # 2.48pm 11.69 S

Enoggera Reservoir # 9.24pm 75.58 S 1.21 above full supply

Breakfast Ck Railway Bowen Hills # 8.30pm 2.22 F

Breakfast Ck Mouth # 9.24pm 2.17 F

Pine/Caboolture

North Pine R at Youngs Crossing# 9.01pm 5.77 S

Trend

S steady RS rising slowly FS falling slowly

P peak R rising F falling

EP estimated peak RF rising fast FF falling fast

Notes:

1. All heights are in metres.
2. Stations marked with [^] indicate heights above AHD.
3. Data from automatic stations [* or #] have not been checked & may have errors.
4. This product includes data made available to the Bureau by other agencies.

Separate approval may be required to use the data for other purposes. Refer to
Flood Gauge Information for station ownership.

This message has passed through an insecure network.

Please direct all enquiries to the message author.

BOM Alert

From: Flood Information Centre [REDACTED]
To: Flood Information Centre [REDACTED]
Date: Thu, 13 Jan 2011 00:34:55 +1000

BOM:

Australian Government Bureau of Meteorology

Queensland

BROADCASTERS ARE REQUESTED TO USE THE STANDARD EMERGENCY
WARNING SIGNAL BEFORE

BROADCASTING.

PRIORITY - FOR IMMEDIATE BROADCAST

FLOOD WARNING FOR THE LOCKYER, BREMER, WARRILL AND BRISBANE RIVER
BELOW WIVENHOE

INCLUDING BRISBANE CITY

Issued at 12:27 AM on Thursday the 13th of January 2011

by the Bureau of Meteorology, Brisbane.

IPSWICH: Flood levels at Ipswich peaked at 19.4 metres during Wednesday, and are

beginning to fall. River levels are expected to continue falling into Thursday.

BRISBANE: At 10pm Wednesday, the Brisbane City gauge (lower end of Edward Street

and at Thornton Street) was 4.2 metres following the high tide. Renewed rises

with the tide are expected, with a peak under 5 metres expected with the high

tide at 4am. Levels will remain high throughout Thursday.

This is below the 1974 flood peak of 5.45 metres as releases at Wivenhoe Dam

were reduced quickly during Tuesday night.

LOCKYER CREEK:

Major flooding in the lower Lockyer Creek will continue easing into Thursday.

WARRILL CREEK:

Moderate to major flooding continues from Kalbar to Amberley, with flood levels

now falling.

BREMER RIVER

Minor flooding is easing along the Bremer River from Rosewood to Walloon.

The Bremer River at Ipswich peaked at 19.4 metres Wednesday afternoon, and is continuing to fall. This peak was around 1.3 metres below the 1974 flood level.

MIDDLE AND LOWER BRISBANE:

Major flooding continues from the Mount Crosby area to Brisbane City along the Brisbane River.

At Mount Crosby Weir, a major flood peak of 26.2 metres was recorded on

Wednesday morning, slightly below the 1974 peak level at this location.

At Moggill, a peak of 17.9 metres was observed during Wednesday afternoon. This was about 2 metres below the 1974 peak at this location.

At Jindalee, a peak of 13 metres was observed at about 7pm Wednesday.

At the Brisbane City Gauge (lower end of Edward Street and at Thornton Street), flood levels reached 4.2 metres on the 3pm high tide with major flooding. River rises will continue with a peak under 5 metres expected with the high tide about 4am Thursday. This is below the 1974 flood peak of 5.45 metres. Levels will remain high throughout Thursday.

Predicted River Heights/Flows:

Brisbane City: Peak under 5 metres (major) with the high tide at 4am

Thursday.

Fall below major flood level by Friday.

Next Issue:

The next warning will be issued at about 4am Thursday.

Latest River Heights:

Laidley Ck at Laidley 5.1m steady 08:45 AM WED 12/01/11

Laidley Ck at Showground Weir # 5.36m falling 10:31 PM WED 12/01/11

Laidley Ck at Warrego Hwy * 4.85m falling 10:00 PM WED 12/01/11

Lockyer Ck at Glenore Grove # 8.68m falling 11:28 PM WED 12/01/11

Lockyer Ck at Rifle Range Rd * 15.96m falling 08:40 PM WED 12/01/11

Brisbane R at Savages Crossing * 18.48m falling 08:40 PM WED 12/01/11

Bremer R at Rosewood # 4.1m steady 11:26 PM WED 12/01/11

Bremer R at Walloon DERM * 5.59m falling 10:00 PM WED 12/01/11

Warrill Ck at Amberley DNR * 8.48m falling 08:40 PM WED 12/01/11

Bremer R at Ipswich # 18.55m falling 11:34 PM WED 12/01/11

Brisbane R at Moggill # 17.02m falling 11:29 PM WED 12/01/11

Brisbane R at Jindalee Br # 12.75m falling 11:23 PM WED 12/01/11

Brisbane R at City Gauge # 4.25m rising 11:45 PM WED 12/01/11

Warnings and River Height Bulletins are available at

<http://www.bom.gov.au/qld/flood/> . Flood Warnings are also available on

telephone 1300 659 219 at a low call cost of 27.5 cents, more from mobile,

public and satellite phones.

This message has passed through an insecure network.

Please direct all enquiries to the message author.

BOM Alert

From: Flood Information Centre [REDACTED]
To: Flood Information Centre [REDACTED]
Date: Thu, 13 Jan 2011 00:35:08 +1000

BOM: TO::BOM552

RIVER HEIGHT BULLETIN for Brisbane, Pine, Caboolture Rivers and tributaries

Issued at 12.31am on Thursday, 13 January 2011

Bureau of Meteorology, Brisbane

| Station Name | Time | Height | Trend | Crossing |
|--------------|------|--------|-------|----------|
|--------------|------|--------|-------|----------|

Stanley/Upper Brisbane

Stanley R at Woodford * 11.50pm 5.72 F 0.68 below bridge

Stanley R at Woodford # 12.10am 5.70 F 0.70 below bridge

Stanley R at Woodford # 12.14am 5.72 F 0.68 below bridge

Brisbane R at Linville # 12.18am 2.70 F

Brisbane R at Devon Hills # 12.21am 3.45 F

Brisbane R at Gregor Ck # 12.26am 4.20 F

Cressbrook Ck at Rosentreter's Br # 12.19am 4.24 F

Cressbrook Ck at Rosentreter's Br * 11.00pm 4.28 F

Lower Brisbane

Sandy Creek at Sandy Creek Road # 11.12pm 1.70 S 0.20 below crossing

Laidley Ck at Warrego Hwy * 11.00pm 4.80 F

Lockyer Ck at Glenore Grove # 12.16am 8.56 F

Lockyer Ck at Lyons Br # 12.21am 14.91 R

Lockyer Ck at Rifle Range Rd * 11.40pm 15.59 F

Brisbane R at Savages Crossing # 12.26am 17.23 F 14.33 above bridge

Brisbane R at Savages Crossing * 11.40pm 17.57 F 14.67 above bridge

Brisbane R at Mt Crosby # 12.27am 22.89 F 10.54 above bridge

Bremer R at Spresters Br # 11.42pm 4.07 F 0.73 below bridge

Western Ck at Rosewood Wwtp # 12.29am 3.88 S 3.37 below approaches

Bremer R at Rosewood# 12.29am 4.01 F 1.19 below bridge

Bremer R at Rosewood # 12.11am 4.06 F 1.14 below bridge

Bremer R at Five Mile Br Walloon # 12.21am 3.84 F 0.66 below approaches

Bremer R at Walloon Derm * 11.00pm 5.43 F

Warrill Ck at Kalbar Weir Tw * 11.30pm 6.03 F

Warrill Ck at Harrisville# 11.03pm 4.85 F 0.65 below bridge

Warrill Ck at Harrisville # 12.20am 4.98 F 0.52 below bridge

Warrill Ck at Churchbank Weir # 11.20pm 2.77 F 2.77 above weir

Warrill Ck at Churchbank Weir * 11.30pm 2.75 F 2.75 above weir

Warrill Ck at Greens Rd Amberley # 12.28am 6.92 S

Warrill Ck at Amberley Dnr * 11.40pm 8.09 F

Purga Ck at Loamside * 11.40pm 4.36 F

Bremer R at One Mile Br # 12.29am 18.80 F 1.60 above bridge

Bremer R at Hancocks Br Brassall # 12.14am 20.48 F 6.68 above bridge

Bremer R at Ipswich # 12.28am 18.40 F 6.48 below bridge

Bremer R at Ipswich 11.00pm 18.55 FS 6.33 below bridge

Brisbane R at Moggill # 12.08am 17.02 F

Brisbane R at Moggill # 12.29am 16.82 F

Brisbane R at Jindalee Br # 11.53pm 12.70 F

Brisbane R at City Gauge # 11.45pm 4.26 R

Ipswich/Brisbane Creeks

Deebing Creek at Churchill # 12.24am 5.70 F

Bundamba Ck at Blackstone Br # 12.26am 18.04 F 2.76 below bridge

Bundamba Ck at Bundamba School # 12.25am 18.18 F 1.88 above bridge

Woogaroo Ck at Opossum # 11.50pm 20.55 F

Oxley Ck New Beith Rd Greenbank * 11.40pm 2.14 F

Oxley Ck Beatty Rd Archerfield # 12.10am 9.16 R

Blunder Ck King Ave Durack # 12.11am 9.13 R

Stable Swamp Ck Musgrave Rd # 11.48pm 9.41 R

Oxley Ck Corinda High # 12.07am 9.32 R

Rocky Waterholes at Muriel Ave # 12.24am 8.94 R

Oxley Ck Mouth # 12.23am 9.27 R

Norman Ck Caswell St E Brisbane # 12.11am 2.97 R

Moggill Ck Fortrose St Kenmore # 2.48pm 11.69 S

Enoggera Reservoir # 12.28am 75.47 S 1.10 above full supply

Breakfast Ck Railway Bowen Hills # 12.25am 2.38 R

Breakfast Ck Mouth # 12.16am 2.34

Pine/Caboolture

North Pine R at Youngs Crossing# 12.00am 5.77 S

Trend

S steady RS rising slowly FS falling slowly

P peak R rising F falling

EP estimated peak RF rising fast FF falling fast

Notes:

1. All heights are in metres.
2. Stations marked with [^] indicate heights above AHD.
3. Data from automatic stations [* or #] have not been checked & may have errors.
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Flood Gauge Information for station ownership.

This message has passed through an insecure network.

Please direct all enquiries to the message author.

BOM Update

From:

To:

Cc:

Date: Thu, 13 Jan 2011 01:40:10 +1000

Place: Flood_Information_Centre

See the following link for BOM update:

http://www.bom.gov.au/cgi-bin/wrap_fwo.pl?IDQ20805.html

This update indicates a peak under 5 metres at the city gauge. Currently city gauge is at 4.3m and rising slowly with the high tide.

FIC will monitor city gauge and provide the latest update from the BOM as they become available.

Regards
JamesC
FIC Controller

Flood_Information_Centre - BOM Update

From: Flood_Information_Centre
To: DM DutyOfficers; LDCC
Date: Thursday, 13 January 2011 1:40:11 am
Subject: BOM Update
CC: FIC-Standby-Duty-Officers; Flood_Information_Centre

+*

Place: Flood_Information_Centre

+*

See the following link for BOM update:

http://www.bom.gov.au/cgi-bin/wrap_fwo.pl?IDQ20805.html

This update indicates a peak under 5 metres at the city gauge. Currently city gauge is at 4.3m and rising slowly with the high tide.

FIC will monitor city gauge and provide the latest update from the BOM as they become available.

Regards
 JamesC
 FIC Controller

From: Flood_Information_Centre
To: LDCC
Date: Thu, Jan 13, 2011 2:04 am
Subject: Re: BOM Update for SITREP 2am 13/1/11

Based on the latest BOM Update (13/1/11 @12.27AM) for inclusion in next SITREP.

The current Brisbane City Gauge reading is 4.36m and rising slowly with the high tide. The latest BOM advice indicates a peak at the city gauge under 5m.

FIC will monitor city gauge and provide the latest advice from the BOM on the city gauge as they become available.

BOM also indicated that at Jindalee, a peak of 13 metres was observed at about 7pm Wednesday.

Regards

William Prentice
FIC Liaison

>>> Flood_Information_Centre 13/01/2011 1:40 am >>>
See the following link for BOM update:

http://www.bom.gov.au/cgi-bin/wrap_fwo.pl?IDQ20805.html

This update indicates a peak under 5 metres at the city gauge. Currently city gauge is at 4.3m and rising slowly with the high tide.

FIC will monitor city gauge and provide the latest update from the BOM as they become available.

Regards
JamesC
FIC Controller

CC: Flood_Information_Centre; Joshua Ada



BOM Alert

From: Flood Information Centre [REDACTED]
To: Flood Information Centre [REDACTED]
Date: Thu, 13 Jan 2011 03:35:21 +1000

BOM: TO::BOM552

RIVER HEIGHT BULLETIN for Brisbane, Pine, Caboolture Rivers and tributaries

Issued at 3.30am on Thursday, 13 January 2011

Bureau of Meteorology, Brisbane

| Station Name | Time | Height | Trend | Crossing |
|--------------|------|--------|-------|----------|
|--------------|------|--------|-------|----------|

Stanley/Upper Brisbane

Stanley R at Woodford * 2.40am 5.59 F 0.81 below bridge

Stanley R at Woodford # 3.16am 5.56 F 0.84 below bridge

Stanley R at Woodford # 3.17am 5.58 F 0.82 below bridge

Brisbane R at Linville # 3.27am 2.60 F

Brisbane R at Devon Hills # 3.28am 3.33 F

Brisbane R at Gregor Ck # 3.23am 4.06 F

Cressbrook Ck at Rosentreter's Br # 3.19am 4.12 S

Cressbrook Ck at Rosentreter's Br * 2.40am 4.14 F

Lower Brisbane

Sandy Creek at Sandy Creek Road # 2.12am 1.65 S 0.25 below crossing

Laidley Ck at Warrego Hwy * 2.00am 4.68 F

Lockyer Ck at Glenore Grove # 3.28am 8.18 F

Lockyer Ck at Lyons Br # 3.21am 14.33 F

Lockyer Ck at Rifle Range Rd * 2.40am 15.06 F

Brisbane R at Savages Crossing # 3.26am 16.43 F 13.53 above bridge

Brisbane R at Savages Crossing * 2.40am 16.70 F 13.80 above bridge

Brisbane R at Mt Crosby # 3.27am 21.99 S 9.64 above bridge

Bremer R at Spicers Br # 3.24am 3.87 F 0.93 below bridge

Western Ck at Rosewood Wwtp # 2.34am 3.68 F 3.57 below approaches

Bremer R at Rosewood# 2.52am 3.91 F 1.29 below bridge

Bremer R at Rosewood # 3.14am 3.92 F 1.28 below bridge

Bremer R at Five Mile Br Walloon # 3.12am 3.54 F 0.96 below approaches

Bremer R at Walloon Derm * 2.00am 5.01 F

Warrill Ck at Kalbar Weir Tw * 2.35am 5.63 F

Warrill Ck at Harrisville# 1.55am 4.80 F 0.70 below bridge

Warrill Ck at Harrisville # 3.20am 4.92 F 0.58 below bridge

Warrill Ck at Churchbank Weir # 2.57am 2.66 F 2.66 above weir

Warrill Ck at Churchbank Weir * 2.30am 2.67 S 2.67 above weir

Warrill Ck at Greens Rd Amberley # 3.28am 6.64 S

Warrill Ck at Amberley Dnr * 2.40am 7.71 F

Bremer R at One Mile Br # 3.18am 18.20 F 1.00 above bridge

Bremer R at Hancocks Br Brassall # 3.29am 19.53 F 5.73 above bridge

Bremer R at Ipswich # 3.29am 17.80 F 7.08 below bridge

Brisbane R at Moggill # 3.19am 16.42 F

Brisbane R at Moggill # 3.14am 16.27 F

Brisbane R at Jindalee Br # 2.59am 12.45 F

Brisbane R at City Gauge # 2.57am 4.45 R

Ipswich/Brisbane Creeks

Deebing Creek at Churchill # 3.21am 5.05 F

Bundamba Ck at Bundamba School # 3.18am 17.63 F 1.33 above bridge

Woogaroo Ck at Opossum # 2.27am 20.50 F

Oxley Ck New Beith Rd Greenbank * 2.40am 2.08 F

Oxley Ck Beatty Rd Archerfield # 3.11am 9.18 S

Blunder Ck King Ave Durack # 1.19am 9.15 R

Stable Swamp Ck Musgrave Rd # 12.29am 9.43 R

Oxley Ck Corinda High # 3.10am 9.33 S

Rocky Waterholes at Muriel Ave # 3.18am 8.94 F

Oxley Ck Mouth # 12.23am 9.27 R

Norman Ck Caswell St E Brisbane # 3.03am 3.22 R

Moggill Ck Fortrose St Kenmore # 2.48pm 11.69 S

Enoggera Reservoir # 2.52am 75.39 S 1.02 above full supply

Breakfast Ck Railway Bowen Hills # 3.10am 2.68 R

Breakfast Ck Mouth # 3.18am 2.69 R

Pine/Caboolture

North Pine R at Youngs Crossing# 3.00am 5.77 S

Trend

S steady RS rising slowly FS falling slowly

P peak R rising F falling

EP estimated peak RF rising fast FF falling fast

Notes:

1. All heights are in metres.
2. Stations marked with [^] indicate heights above AHD.
3. Data from automatic stations [* or #] have not been checked & may have errors.
4. This product includes data made available to the Bureau by other agencies.

Separate approval may be required to use the data for other purposes. Refer to

Flood Gauge Information for station ownership.

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Please direct all enquiries to the message author.

BOM Alert

From: Flood Information Centre [REDACTED]
To: Flood Information Centre [REDACTED]
Date: Thu, 13 Jan 2011 03:55:10 +1000

BOM:

Australian Government Bureau of Meteorology

Queensland

BROADCASTERS ARE REQUESTED TO USE THE STANDARD EMERGENCY
WARNING SIGNAL BEFORE

BROADCASTING.

PRIORITY - FOR IMMEDIATE BROADCAST

FLOOD WARNING FOR THE LOCKYER, BREMER, WARRILL AND BRISBANE RIVER
BELOW WIVENHOE

INCLUDING BRISBANE CITY

Issued at 3:52 AM on Thursday the 13th of January 2011

by the Bureau of Meteorology, Brisbane.

IPSWICH: Flood levels at Ipswich are falling strongly, and have fallen below 18

metres around 3am Thursday. River levels will continue falling during Thursday,

and drop below major flood level later Thursday.

BRISBANE: At 3:30am Thursday, the Brisbane City gauge (lower end of Edward

Street and at Thornton Street) was 4.45 metres and rising with the high tide. A

peak slightly above this level is expected in the next few hours.

This is below the 1974 flood peak of 5.45 metres as releases at Wivenhoe Dam

were reduced quickly during Tuesday night.

LOCKYER CREEK:

Major flooding in the lower Lockyer Creek will continue easing during Thursday.

WARRILL CREEK:

Moderate to major flooding continues from Kalbar to Amberley, with flood levels

now falling.

BREMER RIVER

Minor flooding is easing along the Bremer River from Rosewood to Walloon.

The Bremer River at Ipswich is falling strongly, and has fallen below 18 metres

at around 3am Thursday. River levels will continue falling during Thursday.

MIDDLE AND LOWER BRISBANE:

Major flooding continues along the Brisbane River from the Mount Crosby area to
Brisbane City.

At Mount Crosby Weir, a major flood peak of 26.2 metres was recorded on

Wednesday morning, slightly below the 1974 peak level at this location.

At Moggill, a peak of 17.9 metres was observed during Wednesday afternoon. This was about 2 metres below the 1974 peak at this location.

At Jindalee, a peak of 13 metres was observed at about 7pm Wednesday.

At 3:30am Thursday, the Brisbane City gauge (lower end of Edward Street and at Thornton Street) was 4.45 metres and rising with the high tide. A peak slightly above this level is expected in the next few hours.

Predicted River Heights/Flows:

Brisbane City: Peak around 4.6 metres (major) with the high tide about 4am

Thursday.

Fall below major flood level by Friday.

Next Issue:

The next warning will be issued at about 8am Thursday.

Latest River Heights:

Tenthill Ck at Tenthill * 1.74m falling 02:00 AM THU 13/01/11

Laidley Ck at Laidley 5.1m steady 08:45 AM WED 12/01/11

Laidley Ck at Showground Weir # 5.32m falling 03:25 AM THU 13/01/11

Laidley Ck at Warrego Hwy * 4.68m falling 02:00 AM THU 13/01/11

Lockyer Ck at Glenore Grove # 8.2m falling 03:15 AM THU 13/01/11

Lockyer Ck at Rifle Range Rd * 15.06m falling 02:40 AM THU 13/01/11

Brisbane R at Savages Crossing * 16.7m falling 02:40 AM THU 13/01/11

Bremer R at Rosewood # 3.92m falling 03:14 AM THU 13/01/11

Bremer R at Walloon DERM * 5.01m falling 02:00 AM THU 13/01/11

Warrill Ck at Amberley DNR * 7.71m falling 02:40 AM THU 13/01/11

Bremer R at Ipswich # 17.85m falling 03:16 AM THU 13/01/11

Brisbane R at Moggill # 16.27m falling 03:14 AM THU 13/01/11

Brisbane R at Jindalee Br # 12.45m falling 02:59 AM THU 13/01/11

Brisbane R at City Gauge # 4.45m rising 02:57 AM THU 13/01/11

Warnings and River Height Bulletins are available at

<http://www.bom.gov.au/qld/flood/> . Flood Warnings are also available on

telephone 1300 659 219 at a low call cost of 27.5 cents, more from mobile,

public and satellite phones.

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Please direct all enquiries to the message author.
