

Karen Cowell

From: Dan Spiller [Daniel.Spiller@wivenhoe.gov.uk]
Sent: Monday, 10 January 2011 5:31 AM
To: Dan Spiller; 'stephen.robertson@wivenhoe.gov.uk'; Ken Smith; 'Lance McCallum (lance.mccallum@wivenhoe.gov.uk)'; 'Tim Watts (tim.watts@wivenhoe.gov.uk)'; 'Geoff Stead (geoff.stead@wivenhoe.gov.uk)'; 'lauren.sims@wivenhoe.gov.uk'; 'Debbie Best (debbie.best@wivenhoe.gov.uk)'; 'Martin.PeterJ@wivenhoe.gov.uk'; 'Dunn.KerryG@wivenhoe.gov.uk'
Cc: 'Rob Drury'; 'pbird@wivenhoe.gov.uk'; 'sstevensor@wivenhoe.gov.uk'; SEQWGM Media; Scott Denner; 'Madgwick.DarrenT@wivenhoe.gov.uk'; 'Damien Brown (damien.brown@wivenhoe.gov.uk)'; 'bob.reilly@wivenhoe.gov.uk'
Subject: RE: Updated Wivenhoe Dam release strategy

The Mt Crosby Weir and Fernvale Bridges were both inundated by other flows last night. Councils were advised and are on site.

Dam releases began to be increased overnight, brought forward because the bridges were already and with increasing inflows to storages.

We are preparing communications and technical information.

Regards,
Dan

From: Dan Spiller
Sent: Sunday, January 09, 2011 11:07 PM
To: [stephen.robertson@wivenhoe.gov.uk](#); Ken Smith ([ken.smith@wivenhoe.gov.uk](#)); Lance McCallum ([lance.mccallum@wivenhoe.gov.uk](#)); Tim Watts ([tim.watts@wivenhoe.gov.uk](#)); Geoff Stead ([geoff.stead@wivenhoe.gov.uk](#)); [lauren.sims@wivenhoe.gov.uk](#); Debbie Best ([debbie.best@wivenhoe.gov.uk](#)); [Martin.PeterJ@wivenhoe.gov.uk](#); [Dunn.KerryG@wivenhoe.gov.uk](#)
Cc: 'Rob Drury'; [pbird@wivenhoe.gov.uk](#); 'sstevensor@wivenhoe.gov.uk'; SEQWGM Media; Scott Denner; [Madgwick.DarrenT@wivenhoe.gov.uk](#); Damien Brown ([damien.brown@wivenhoe.gov.uk](#)); [bob.reilly@wivenhoe.gov.uk](#)
Subject: Updated Wivenhoe Dam release strategy

All,

Latest advice from the Flood Control Centre attached.

There has been 100 to 300mm of rainfall in the Wivenhoe and Somerset dam catchments over the past 24 hours. Rainfall of similar magnitudes is expected over the next 12 to 24 hours.

At this time, including forecast rainfall, total inflows will exceed 1,000,000 ML and may approach 1,500,000 ML - in the order of the 1974 flood volume.

To date, the primary objective for this event has been managing to prevent inundation of the Mt Crosby Weir and Fernvale Bridges.

With the forecast volumes, this primary objective is being changed to minimizing the risk of urban inundation. This involves larger releases now, minimizing the risk of even larger releases later (were the flood compartment to reach high levels).

Urban inundation in the City reaches generally commences at total river flows of about 3,500 cubic metres per second (dam releases plus Lockyer and Bremer). At this time, and depending upon overnight rainfall, the Flood Control Centre is proposing to increase releases from around 1,200 to 2,500 cubic metres per second from midday tomorrow. This provides an allowance for other flows.

The Mt Crosby Weir and Fernvale bridges will certainly be inundated - isolating or inconveniencing many Brisbane Valley residents. The timing will depend largely on local flows, with the river having recently increased to be about one foot below the deck. Seqwater is preparing the bridge to be inundated, and may need to close it tonight. However, other flows permitting, we will delay inundating the bridge until tomorrow night - providing notice for impacted residents.

Actions to date:

- Notified Councils (up to the CEO level at BCC)
- Notified Police (Assistant Commissioner)
- Increasing treated water storage and preparing treatment plants, should there again be increased turbidity levels or other operational issues.

A media advice is being prepared now, for review and issue by 7am. The advice will address the closure of the bridges, with the intent of providing as much notice as possible to impacted residents (if not already closed). Impacts on the City reaches will be addressed following further consultation with Council (with there being a 20+ hour transit time).

It is important to note that the dams are managing impacts by delaying and reducing releases. For comparison, peak flows into the dam are forecast to reach up to 7,500 cubic metres per second - excluding any downstream flows.

Please call me on [REDACTED] if you require any further information.

Regards,
Daniel Spiller

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Karen Cowell

From: Dan Spiller [Daniel.Spiller@seqwg.com.au]
Sent: Monday, 10 January 2011 9:46 AM
To: stephen.robertson@seqwg.com.au; Ken Smith; lance.mccallum@seqwg.com.au; Tim.Watts@seqwg.com.au; Geoff.Stead@seqwg.com.au; Lauren.Sims@seqwg.com.au; Best Debbie; 'Martin.Peter@seqwg.com.au'; 'Dunn.KerryG@seqwg.com.au';
Cc: Rob Drury; Paul Bird; SEQWGM Media; damien.brown@seqwg.com.au; Reilly Bob; Madgwick.DarrenT@seqwg.com.au; 'Stan Stevenson'
Subject: Water Grid operations update
Attachments: Technical Situation Report W36.docx

All,

Current situation report attached. We are distributing this version of the Technical Support Report to Councils and BoM now. We are seeking their formal input and endorsement by 1pm, prior to finalising and speaking publicly to our release strategy.

For dam operations, key points are:

- There is continuing heavy rainfall in catchments. Total inflows will be at least 1,500,000 ML and probably above 2,100,000 ML.
- As a result, Wivenhoe Dam is above 140% of capacity and Somerset is above 150%, with both rising fast.
- As specified in the approved Operational Procedures, the primary objective is now to minimizing the risk of urban inundation (release strategy W2). This involves larger releases now, minimizing the risk of even larger releases later (were the flood compartment to reach high levels).
- Consistent with this release strategy, dam releases have increased to 1,750 cubic metres per second (150,000 ML/day). It is expected to increase to 2,600 cubic metres per second by midday tomorrow.
- As specified in the approved Operational Manual, we are targeting maximum flow in the Brisbane River of 3,500 cumecs at Moggill. This is the levels above which urban inundation begins.
- For comparison, flows would be up to 12,000 cumecs without the dams.

For water treatment, key points are:

- Key facilities are operating and reservoir levels are high. Mt Crosby WTP is producing at 250 ML/day and desalination at one-third of capacity.
- There are a range of smaller plants that have been impacts, due to inundation of infrastructure, connections or stranding of operators. We are working through these issues and will advise if any become critical.

Please call me on [REDACTED] if you require any further information.

Regards,
Dan

Daniel Spiller
Director, Operations
[SEQ Water Grid Manager](#)

Phone: [REDACTED]
Email: [REDACTED]
Visit: Level 15, 53 Albert Street Brisbane
Post: PO Box 16205, City East QLD 4002
ABN: 14783 317 630

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TECHNICAL SITUATION REPORT

TSR Number	W36	Date of TSR release	10.1.2011	Time of TSR release	8am
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Seqwater status of inflows and dam operations

Current status but could change based on inflows or rainfall.

Current objectives	<ul style="list-style-type: none"> Continue increasing releases to discharge flood waters but keep impact downstream to minimum. 										
Strategy	<ul style="list-style-type: none"> All bridges are now inundated . 										
Key considerations	<table> <tr> <td>Storage levels:</td><td>Above FSL</td></tr> <tr> <td>Inflows:</td><td>Inflows expected around 1,500,000ML which is close to 1974 event.</td></tr> <tr> <td>Rainfall:</td><td>Continuing</td></tr> <tr> <td>Lockyer/Bremer:</td><td>Monitoring their inflows</td></tr> <tr> <td>Brisbane River:</td><td>Impact as below.</td></tr> </table>	Storage levels:	Above FSL	Inflows:	Inflows expected around 1,500,000ML which is close to 1974 event.	Rainfall:	Continuing	Lockyer/Bremer:	Monitoring their inflows	Brisbane River:	Impact as below.
Storage levels:	Above FSL										
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Rainfall:	Continuing										
Lockyer/Bremer:	Monitoring their inflows										
Brisbane River:	Impact as below.										

Rainfall

Moderate to heavy rainfall has been recorded in the Upper Brisbane and Stanley Rivers in the last 12 hours with totals up to 90 mm. Totals for the last 24 hours range from 100 to 325mm.

Mt Glorious recorded 100 mm in the last 12 hours.

Rainfall of similar magnitudes is expected in the 12 to 24 hours around the downstream catchments as the system tracks south.

A severe weather warning remains current for heavy rainfall in the dam catchment areas.

North Pine Dam (Full Supply Level 39.60 m AHD)

The dam level was 39.97 m and steady. Five gates are open releasing 475 m³/s. The inflow into the dam since the commencement of the event is 52,000 ML. Estimated event volume is 72,000 ML assuming no further rainfall. Gate operations will continue until at least Tuesday 11 January 2011.

Somerset Dam (Full Supply Level 99.00 m AHD)

The dam level at 05:00 was 102.84 m AHD and rising (storing 193,000 ML above FSL). Peak inflow to the dam is estimated to be about 4,200 m³/s based on observed rainfall and could be as high as 5,000m³/s with additional forecast rainfall. Five sluice gates are open releasing about 1,100m³/s (95,000ML/d) into Wivenhoe Dam. At this stage the dam lake level will reach about 103.5 m AHD on Monday afternoon. Areas around Kilcoy will continue to be adversely affected.

Since the commencement of the event on 02/01/2011 approximately 142,000ML has been released from the dam into Wivenhoe, with an event total of the order of 520,000ML expected. This is expected to increase due to the forecast rain in the next 24 to 48 hours. At this stage, releases will continue until at least Thursday.

Wivenhoe Dam (Full Supply Level 67.00 m AHD)

River levels upstream of the dam have peaked and are falling slowly with significant inflow being generated from the intense heavy rainfall. Flows in the Brisbane River at Gregor's Ck have peaked at 7,350m³/s at 23:00 on Sunday 9 January. This peak is bigger than January 1974 and February 1999 at this location.

The dam level is rising quickly, with the current level being 70.77m AHD (storing 450,000 ML). Estimated peak inflow to the dam just from the Upper Brisbane R is around 8,800m³/s and, at this stage, the dam will reach at least 73.3 m AHD during Tuesday morning. Given the rapid increase in inflow volumes, it was necessary to start to increase the release from Wivenhoe during Monday morning.

The objective for dam operations will be to minimise the impact of urban flooding in areas downstream of the dam and, at this stage, releases will be kept below 3,500m³/s and the combined flows in the lower Brisbane will be limited to 4,000m³/s if possible. This is significantly less than the current estimated combined pre-dam peak inflow of 12,000 m³/s.

Fernvale Bridge approaches and Mt Crosby Weir Bridge have been inundated and both bridges are now closed.

The current release rate from Wivenhoe Dam is 1,753m³/s (150,000ML/day). Gate opening will continue to be increased during Monday and the release is expected to increase to at least 2,600m³/s in the next 12 to 24 hours.

Since the commencement of the event on 02/01/2011 approximately 275,000ML has been released from the dam, with an event total approaching 1,600,000ML without further rain and as much as 2,100,000ML with forecast rainfall of (both including Somerset outflow). At this stage, releases will continue until at least Sunday 16th January 2011.

Impacts downstream of Wivenhoe Dam

The projected Wivenhoe Dam releases combined with Lockyer flows and local runoff will mean that all crossings downstream of Wivenhoe (Twin Bridges, Fernvale, Savages Crossing, Burtons Bridge, Kholo Bridge, Mt Crosby Weir and Colleges Crossing) will be adversely impacted until at least Saturday 15 January in varying degrees.

Water levels in the lower Brisbane R will be impacted by the combined flows of Lockyer Ck, Bremer River, local runoff and releases from Wivenhoe Dam. If the predicted rainfall eventuates in the downstream tributary catchments the resultant combined flows in the lower Brisbane may exceed the threshold of damaging discharge in the urban areas within the next 24 to 48 hours. Currently the estimate peak flow in the lower Brisbane River will be the highest since Wivenhoe Dam was completed in 1984 but still well below flows the 1974 levels.

Somerset Regional, Ipswich City and Brisbane City Councils have been advised of the updated Wivenhoe operating strategy.

Outlook

Heavy rainfall continues throughout South East Queensland and the situation could deteriorate rapidly over the next 24 hours. The flood operation centre will continue to monitor the situation and provide every six hours until the situation stabilizes.

Seqwater Technical Officer name

Robert Drury

Seqwater Technical Officer position title	Dam Operations Manager
[REDACTED]	

BoM assessment

(consisting of references to latest Flood Warning for the Brisbane River and other relevant Bureau forecasts and warnings (e.g. weather/rain forecasts, Tropical Cyclone Warning etc) and other updates/comments if needed)

BoM has been advised.

BoM Technical Officer name	Peter Baddiley
BoM Technical Officer position title	
BoM Technical Officer contact details	[REDACTED]

Brisbane City Council (BCC) assessment

(to include predicted local inundation areas and depths of inundation based on the information)

Council has been advised of the current status.

BCC Technical Officer name	Chris Lavin
BCC Technical Officer position title	Disaster Operations Manager
BCC Technical Officer contact details	[REDACTED]

Ipswich City Council (ICC) assessment (if required)

(to include predicted local inundation areas and depths of inundation based on the information)

Council has been advised of the current status.

ICC Technical Officer name	Tony Trace
ICC Technical Officer position title	Local Disaster Response Coordinator
ICC Technical Officer contact details	[REDACTED]

Somerset Regional Council (SRC) assessment (if required)

(to include predicted local inundation areas and depths of inundation based on the information)

Council has been advised of the current status.

SRC Technical Officer name	Tony Jacobs
SRC Technical Officer position title	Local Disaster Response Coordinator

SRC Technical Officer contact details

Collated and distributed by (Agency)

Contact Officer signature	
Contact Officer name	Rob Drury
Contact Officer position title	Dam Operations Manager

Next TSR due	Date	11.1.2011	Time		or Event	Change in strategy
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Karen Cowell

From: Dan Spiller [Daniel.Spiller@seqwater.com.au]
Sent: Monday, 10 January 2011 1:42 PM
To: Tim.Watts@seqwater.com.au; Geoff.Stead@seqwater.com.au; Ken Smith; Best Debbie
Cc: Barry Dennien; Michael Lyons
Subject: BCC communications update

For information, BCC communications had scheduled a media conference with the Deputy Mayor at 2pm.

BCC just confirmed that they are seeking to cancel this conference, pending ongoing discussions between the Premier and Mayor.

Dan

Daniel Spiller

Director, Operations

SEQ Water Grid Manager

Phone: [REDACTED]

Email: [REDACTED]

Visit: Level 15, 53 Albert Street Brisbane

Post: PO Box 16205, City East QLD 4002

ABN: 14783 317 630

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Karen Cowell

From: Dan Spiller [REDACTED]
Sent: Monday, 10 January 2011 4:22 PM
To: stephen.robertson [REDACTED]; Ken Smith;
lance.mccallum [REDACTED]; Tim.Watts [REDACTED]
Geoff.Stead [REDACTED]; Lauren.Sims [REDACTED]; Best Debbie;
'Martin.PeterJ [REDACTED]; 'Dunn.KerryG [REDACTED]
Cc: Paul Bird; SEQWGM Media; damien.brown [REDACTED]; Reilly Bob;
Madgwick.DarrenT [REDACTED]; 'Stan Stevenson'; 'Stan Stevenson'
Subject: Water Grid water supply update

All,

While most of the Water Grid is operating well, there are a number of incidents affecting areas with stand-alone supplies.

We have issued a boil water notice for areas supplied from a small treatment plant off Atkinson Dam. The treatment plant supplies about 20 people, including a couple of houses.

At Jimna and Linville we are relying upon treated water storage. These towns both have about 100 residences and are currently isolated. We are arranging site access for operators through EMQ. We will also work with EMQ to ensure that essential supplies are maintained. In the meantime, we are using local radio to ask residents to use water wisely. With efficient use, reservoir levels should be sufficient for at least two days.

At Kilcoy, the treatment plant is offline due to power outages. Energex is treating this as a priority but has not yet been able to access its site. In the meantime, we will ask local residents to use water wisely and develop contingency plans for resupply. While this is a larger town, reservoir levels should also be sufficient for at least two days with efficient use.

At Kenilworth, the treatment plant has been flooded and will be out of operation for some days. Three trucks have been arranged to start deliveries from tomorrow. These deliveries should be sufficient to maintain reservoirs at current levels (about two days supply).

Please call me on [REDACTED] if you require any further information.

Regards,
Dan

Daniel Spiller
Director, Operations
SEQ Water Grid Manager
Phone: [REDACTED]
Email: daniel.spiller@seqwatergrid.com.au
Visit: Level 15, 53 Albert Street Brisbane
Post: PO Box 16205, City East QLD 4002
ABN: 14783 317 630

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Karen Cowell

From: Dan Spiller [REDACTED]
Sent: Tuesday, 11 January 2011 7:17 AM
To: 'stephen.robertson [REDACTED]'; Ken Smith; 'Lance McCallum (lance.mccallum [REDACTED]'; 'Tim Watts [REDACTED]'; 'Geoff Stead (geoff.stead [REDACTED]'; 'lauren.sims [REDACTED]'; 'Martin.Peter [REDACTED]'; 'Dunn.KerryG [REDACTED]';
Cc: Barry Dennien; 'pborrows [REDACTED]'; 'Rob Drury'; 'pbird [REDACTED]'; 'Damien Brown (damien.brown [REDACTED]'; 'bob.reilly [REDACTED]'; 'terry.wall [REDACTED]'; Madgwick.DarrenT [REDACTED]
Subject: Water Grid dam release strategy
Attachments: Technical Situation Report W38.docx

All,

Attached is the latest report, with the BoM warning on the Lockyer flood below.

Key points are:

- Current releases are 2,750 cubic metres per second (about 240,000 ML/day). Due to heavy rainfall in the catchment, it was not possible to reduce releases to allow the Lockyer Valley flows to pass.
- Further rainfall may result in the need to increase releases.
- Wivenhoe Dam is at 73.51m AHD and rising at about 25mm/hour. Above 74m, the primary objective becomes maintaining the security of the dam. Releases would be increased at this level with less scope for consideration of downstream impacts.

The BoM is remodeling based on this release strategy. There is some uncertainty about the level of flows coming from the Lockyer.

Please call me on [REDACTED] if you require any further information.

Debbie and Tim: I recommend that a briefing for the Minister would be appropriate, perhaps around 10am.

Regards,
Daniel Spiller

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.

-----Safe Stamp-----

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Robert Drury

Dam Operations Manager

Water Delivery

Queensland Bulk Water Supply Authority trading as Seqwater



Swimming in weirs and
flowing water is FA1

rethink



Ph (07) [REDACTED] | Fax (07) [REDACTED] | M [REDACTED] | E [REDACTED]
Wivenhoe Dam, Brisbane Valley Highway, via Fernvale Q4300 Australia
PO Box 37, Fernvale QLD 4306
Website | www.seqwater.com.au

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TECHNICAL SITUATION REPORT

TSR Number	W38	Date of TSR release	11.1.2011	Time of TSR release	6.30am
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Seqwater status of inflows and dam operations

Current status but could change based on inflows or rainfall.

Current objectives	<ul style="list-style-type: none"> Maintain releases to keep Wivenhoe below RL74 at which significant releases need to be made to ensure the dam security and minimise flood impacts downstream if possible 										
Strategy	<ul style="list-style-type: none"> Maintain current release of 2750cumecs as long as possible but it may need to be increased Close sluices at Somerset Dam to store more water however will affect upstream areas. 										
Key considerations	<table> <tr> <td>Storage levels:</td><td>Above FSL</td></tr> <tr> <td>Inflows:</td><td>Inflows expected around 1,500,000ML which is close to 1974 event.</td></tr> <tr> <td>Rainfall:</td><td>Continuing</td></tr> <tr> <td>Lockyer/Bremer:</td><td>Monitoring their inflows</td></tr> <tr> <td>Brisbane River:</td><td>Impact as below.</td></tr> </table>	Storage levels:	Above FSL	Inflows:	Inflows expected around 1,500,000ML which is close to 1974 event.	Rainfall:	Continuing	Lockyer/Bremer:	Monitoring their inflows	Brisbane River:	Impact as below.
Storage levels:	Above FSL										
Inflows:	Inflows expected around 1,500,000ML which is close to 1974 event.										
Rainfall:	Continuing										
Lockyer/Bremer:	Monitoring their inflows										
Brisbane River:	Impact as below.										

Rainfall

Rainfall continues in the North Pine Dam, Somerset Dam and Wivenhoe Dam catchments. Isolated falls in the Upper Brisbane River of up to 125 mm have been recorded with widespread falls of 40 to 70 mm in the Somerset Dam catchment. This rainfall will increase inflows into the dam.

There has also been 20 to 60 mm in the Lockyer Creek catchment in the last 12 hours with falls of up to 30 mm in the Bremer River.

A severe weather warning remains current for heavy rainfall in the dam catchment areas. The QPF issued by BOM at 16:00 estimates rainfalls for the 24 hours to 10:00 Tuesday as North Pine Dam (25mm to 50mm, with isolated falls to 100mm); Wivenhoe/Somerset Dam Catchments (25mm to 50mm, with isolated falls to 100mm).

North Pine Dam (Full Supply Level 39.60 m AHD)

The dam level is 39.80m AHD and has commenced rising again (storing 4,400ML above FSL). Five gates are open releasing 177 m3/s. The inflow into the dam since the commencement of the event is 77,000 ML. Estimated event volume is 88,000 ML assuming no further rainfall. Releases from the dam will continue until at least Wednesday 12 January 2011.

Somerset Dam (Full Supply Level 99.00 m AHD)

The dam level is 103.27m AHD and falling slowly. Peak inflow to the dam is estimated to be about

4,200 m³/s. Total discharge into Wivenhoe Dam is currently 1400 m³/s and this discharge will be decreased in the next few hours to be around 500 m³/s later on Tuesday. This is to ensure that the combined flood mitigation capacity in Somerset and Wivenhoe Dam is maximized.

The dam level peaked at 103.52m AHD at 19:00 on Monday 10 January 2011, (unless further significant rainfall is experienced). Areas around Kilcoy will continue to be adversely affected.

Wivenhoe Dam (Full Supply Level 67.00 m AHD)

The dam level is 73.51m AHD and rising at about 25 mm/hour. Releases from the dam have been held at a rate of 2,750 m³/s since 19:30 hours on Monday 10 January 2011. Outflows into the Brisbane River from both Lockyer Creek and the Bremer River are also increasing.

The BoM has provided further advice about the flash flooding experienced in the upper areas of Lockyer Creek. The rainfall responsible for this event was not observed at any rainfall stations but it is considered to be extreme. Flood levels in the Lockyer Creek catchment will exceed maximum recorded levels in some stations in the upper catchment. This flow will result in increases in Brisbane River levels below the junction of Lockyer Creek.

Five radial gates are currently open at the dam releasing about 2,750m³/s into the Brisbane River. At this stage, the dam will reach just over 74.0m AHD during Tuesday evening.

Above EL 74.0m AHD the objective for dam operations is to maintain the security of the dam and minimise downstream flood flows if possible.

If further rainfall occurs, dam releases may need to be increased further and this may result in river flows in the lower Brisbane River approaching or exceeding 5,000m³/s.

Impacts downstream of Wivenhoe Dam

The projected Wivenhoe Dam releases combined with Lockyer Creek flows and local runoff will mean that all crossings downstream of Wivenhoe (Twin Bridges, Fernvale, Savages Crossing, Burtons Bridge, Kholo Bridge, Mt Crosby Weir and Colleges Crossing) will be adversely impacted until at least Sunday 16 January in varying degrees.

Water levels in the lower Brisbane River will be impacted by the combined flows of Lockyer Creek, Bremer River, local runoff and releases from Wivenhoe Dam.

The BoM will provide further information regarding the magnitude of the flash flood event occurring in Lockyer Creek early Tuesday morning. Consideration was given to modifying the releases from Wivenhoe Dam to try to moderate the peak flows emanating from Lockyer Creek but the rainfall in the past 12 hours in the catchment above the dam makes this option not possible. Therefore instead of decreasing releases to accommodate the Lockyer Creek flows, the strategy will endeavour to maintain the current releases until Lockyer Creek peaks.

Outlook

Heavy rainfall continues throughout South East Queensland and the situation could deteriorate over the next 24 hours. The flood operation centre will continue to monitor the situation and provide situation reports every six hours until the situation stabilizes.

Seqwater Technical Officer name	Robert Drury
Seqwater Technical Officer position title	Dam Operations Manager

BoM assessment

(consisting of references to latest Flood Warning for the Brisbane River and other relevant Bureau forecasts and warnings (e.g. weather/rain forecasts, Tropical Cyclone Warning etc) and other updates/comments if needed)

BoM has been advised.

BoM Technical Officer name	Peter Baddiley
BoM Technical Officer position title	
BoM Technical Officer contact details	

Brisbane City Council (BCC) assessment

(to include predicted local inundation areas and depths of inundation based on the information)

Council has been advised of the current status.

BCC Technical Officer name	Chris Lavin
BCC Technical Officer position title	Disaster Operations Manager
BCC Technical Officer contact details	

Ipswich City Council (ICC) assessment (if required)

(to include predicted local inundation areas and depths of inundation based on the information)

Council has been advised of the current status.

ICC Technical Officer name	Tony Trace
ICC Technical Officer position title	Local Disaster Response Coordinator
ICC Technical Officer contact details	

Somerset Regional Council (SRC) assessment (if required)

(to include predicted local inundation areas and depths of inundation based on the information)

Council has been advised of the current status.

SRC Technical Officer name	Tony Jacobs
SRC Technical Officer position title	Local Disaster Response Coordinator
SRC Technical Officer contact details	

Collated and distributed by (Agency)

Contact Officer signature	
Contact Officer name	Rob Drury
Contact Officer position title	Dam Operations Manager

Next TSR due	Date	11.1.2011	Time	PM	or Event	
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Karen Cowell

From: Dan Spiller [REDACTED]
Sent: Tuesday, 11 January 2011 1:18 PM
To: Madgwick.DarrenT [REDACTED]; stephen.robertson [REDACTED]; Ken Smith; Lance McCallum (lance.mccallum [REDACTED]); Tim Watts (tim.watts [REDACTED]); lauren.sims [REDACTED]; Martin.Peter [REDACTED]; Dunn.KerryG [REDACTED]; Debbie Best (debbie.best [REDACTED]); terry.wall [REDACTED]; Geoff Stead (geoff.stead [REDACTED])
Cc: Barry Dennien; Peter Borrows; Rob Drury ([REDACTED]); Stan Stevenson; Madgwick.DarrenT [REDACTED]
Subject: Wivenhoe Dam release update
Attachments: image001.png; Technical Situation Report W39 (2).docx

All,

Attached is the updated Technical Situation Report.

Releases from Wivenhoe Dam have needed to be increased to 3,970 cubic metres per second. BoM is modelling based on this strategy.

Based on these releases, Wivenhoe Dam will peak at between 74.5 and 74.8m with no further inflows.

Further inflows will require further releases. Seqwater is considering worst case scenarios to provide to BoM and BCC to model impacts.

Regards,
Daniel Spiller

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TECHNICAL SITUATION REPORT

TSR Number	W39	Date of TSR release	11.1.2011	Time of TSR release	12.00pm
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Seqwater status of inflows and dam operations

Current status but could change based on inflows or rainfall.

Current objectives	<ul style="list-style-type: none"> Maintain releases to keep Wivenhoe below fuse plug initiation and releases need to be made to ensure the dam security and minimise flood impacts downstream if possible 										
Strategy	<ul style="list-style-type: none"> Maintain current release of 3970cumecs as long as possible but it may need to be increased Close sluices at Somerset Dam to store more water however will affect upstream areas. Current estimate of peak dam level is between EL74.5 and EL74.8 (assuming no further significant rainfall). However it is noted that rainfall is continuing across the catchment. Further rainfall in the next 3 hours will require releases to be increased in accordance with Strategy W4, page 29 of the Manual of Operational Procedures for Flood Mitigation at Wivenhoe Dam and Somerset Dam (Flood Operations Manual) 										
Key considerations	<table> <tr> <td>Storage levels:</td><td>Above FSL</td></tr> <tr> <td>Inflows:</td><td>Inflows expected around 1,500,000ML which is close to 1974 event.</td></tr> <tr> <td>Rainfall:</td><td>Continuing</td></tr> <tr> <td>Lockyer/Bremer:</td><td>Monitoring their inflows</td></tr> <tr> <td>Brisbane River:</td><td>Impact as below.</td></tr> </table>	Storage levels:	Above FSL	Inflows:	Inflows expected around 1,500,000ML which is close to 1974 event.	Rainfall:	Continuing	Lockyer/Bremer:	Monitoring their inflows	Brisbane River:	Impact as below.
Storage levels:	Above FSL										
Inflows:	Inflows expected around 1,500,000ML which is close to 1974 event.										
Rainfall:	Continuing										
Lockyer/Bremer:	Monitoring their inflows										
Brisbane River:	Impact as below.										

Somerset Dam (Full Supply Level 99.00 m AHD)

The dam level is 103.30 AHD and rising. Peak inflow to the dam is estimated to be about 4,200 m³/s. Volume stored above FSL is 240,000ML at 163.3%

The dam level peaked at 103.52m AHD at 19:00 on Monday 10 January 2011, (unless further significant rainfall is experienced). Areas around Kilcoy will continue to be adversely affected.

Wivenhoe Dam (Full Supply Level 67.00 m AHD)

The dam level is 74.1m AHD and rising at about 25 mm/hour. Holding 930,000ML above FSL and 179.5%. Releases from the dam are currently 3,970cumec/s. Outflows into the Brisbane River from both Lockyer Creek and the Bremer River are also increasing.

At this stage it is considered that without further rainfall the dam can be kept at around 74.8m.

The aim is to prevent fuse plug initiation.

Currently the situation is being assessed every 3 hours.

If further rainfall occurs, dam releases may need to be increased further.

Outlook

Heavy rainfall continues throughout South East Queensland and the situation could deteriorate over the next 24 hours. The flood operation centre will continue to monitor the situation and provide situation reports every six hours until the situation stabilizes.

Seqwater Technical Officer name	Robert Drury
Seqwater Technical Officer position title	Dam Operations Manager
[REDACTED]	

BoM assessment

(consisting of references to latest Flood Warning for the Brisbane River and other relevant Bureau forecasts and warnings (e.g. weather/rain forecasts, Tropical Cyclone Warning etc) and other updates/comments if needed)

BoM has been advised.

BoM Technical Officer name	Peter Baddiley
BoM Technical Officer position title	
BoM Technical Officer contact details	[REDACTED]

Brisbane City Council (BCC) assessment

(to include predicted local inundation areas and depths of inundation based on the information)

Council has been advised of the current status.

BCC Technical Officer name	Chris Lavin
BCC Technical Officer position title	Disaster Operations Manager
BCC Technical Officer contact details	[REDACTED]

Ipswich City Council (ICC) assessment (if required)

(to include predicted local inundation areas and depths of inundation based on the information)

Council has been advised of the current status.

ICC Technical Officer name	Tony Trace
ICC Technical Officer position title	Local Disaster Response Coordinator
ICC Technical Officer contact details	

Somerset Regional Council (SRC) assessment (if required)

(to include predicted local inundation areas and depths of inundation based on the information)

Council has been advised of the current status.

SRC Technical Officer name	Tony Jacobs
SRC Technical Officer position title	Local Disaster Response Coordinator
SRC Technical Officer contact details	

Collated and distributed by (Agency)

Contact Officer signature	
Contact Officer name	Rob Drury
Contact Officer position title	Dam Operations Manager

Next TSR due	Date	11.1.2011	Time	PM	or Event	
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Karen Cowell

From: Petula Martinz [REDACTED] on behalf of Dan Spiller
[Daniel.Spiller@seqwg.com.au]
Sent: Tuesday, 11 January 2011 7:01 PM
To: Peter Martin; Kerry Dunn
Cc: Ken Smith; john.bradley [REDACTED] Barry Dennien; Darren Madgwick; Tim Watts ;
Lance McCallum
Subject: FW: Request for logistic support - SEQ Water Grid
Attachments: Water Supply outage Isolated town supply support request - 11111 at 1800h.xlsx
Importance: High

All,

As noted below, there are a number of stand-alone towns in the Scenic Rim and Somerset areas that have run out of supply or are expected to do so tomorrow.

Most of these towns are isolated. While we have tanker trucks on standby, these cannot access the areas. We also cannot access the reservoirs to confirm the amount in storage and the need and priority to supply of bottled water.

Our recommendation is that a helicopter be prioritised to early tomorrow to:

- transport operators to the Kilcoy site, which should be able to recommence supply (avoiding the need for air supply of bottled water)
- transport a QUU and a Seqwater officer to other isolated towns, allowing them to confirm remaining reservoir levels and provide advice and the need for supply of bottled water.

We are preparing a proposed itinerary and timetable.

We appreciate that these resources will need to be prioritised against other needs. We appreciate your advice and assistance.

We are receiving good support on a number of other issues.

Regards,
Dan

From: Lee Hutchison
Sent: Tuesday, 11 January 2011 6:46 PM
To: [sdcclogs](#) [REDACTED]
Cc: SEQWGM Emergency; Dan Spiller
Subject: FW: Request for logistic support - SEQ Water Grid
Importance: High

Further to the below, please find attached the latest update. Please note that Fernvale a sub-district of Lowood is now out of water. It is the highest priority for resupply of potable water within the attached list.

We do not have any internal capacity to carry out the resupply to Fernvale as it is cut off by road.

Please acknowledge receipt and do not hesitate to contact our Emergency Manager or [REDACTED]

Regards,

Scott Denner
Duty Emergency Executive
[REDACTED]

From: Lee Hutchison
Sent: Tuesday, 11 January 2011 4:25 PM
To: 'sdcclogsc [REDACTED]'
Cc: SEQWGM Emergency
Subject: Request for logistic support - SEQ Water Grid

Per telecom at 1605hr, please find attached a log of requested support tasks consisting of 5 towns requiring the supply of potable water (thru tanker or bottled water), and one water treatment plant requiring a resupply of lime.

The attachment includes detail of the time-line for supply of water to townships, based on what remains within the reservoirs at present.

With regards to the Water Treatment Plant, we have procured some lime, but are unable to get it to the plant. The plant supplies approx 40,000 pers on the Sunshine Coast, and will fail within 24 hours.

Included in the attachment are the contact details for personnel at a local level best able to answer queries and to coordinate movements and local support.

Regards

Scott Denner
Duty Emergency Executive
[REDACTED]

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Limited supply towns summary

Updated: 11-Jan-11 12:10pm

A message to conserve water has been issued to all towns in the following regions					
Region	Town	Asset owner	Point of contact	Supply status	Actions
Scenic Rim	Canungra	WTP - Seqwater		* WTP offline * Reservoir level - 94%, 2-3 days supply at current demand	* Monitoring supply
	Beaudesert	WTP - Seqwater		* WTP online * Reservoir level - 86%	* Monitoring supply
	South Maclean	WTP - Seqwater		* Being supplied by Logan City Council	* Supply should continue as normal
	Kooralbyn	WTP - Seqwater		* WTP offline * Reservoirs full - 5-7 days supply	* Monitoring supply
	Rathdowney	WTP - Seqwater		* WTP online, maybe run twice today * Reservoirs full, only 50kL in each though * Break in mains last night, reservoirs re-filled	* Monitoring supply
	Moogerah	WTP - Seqwater		* Rec WTP offline	* Tankering water
	Boonah-Kalbar	WTP - Seqwater		* WTP online and all going OK, river level high	* Monitoring supply
Somerset/Lockyer Valley	No access to any WTPs. Some workers have been isolated on site.				
	Jimna	WTP - Seqwater		* Power off, no access * 1m in reservoir, unsure of supply limit	* Requesting bottled water * Monitoring levels * Awaiting access for water tankers
	Linville	WTP - Seqwater		* Power off, no access * Reservoir levels going OK	* Requesting bottled water * Monitoring supply * Awaiting access for water tankers and water transfer pump
	Kirkleagh	WTP - Seqwater		* No access	* Recreational plant, supply OK
	Kilcoy	WTP - Seqwater		* Power off, no access * 50% in town reservoirs - 24hr supply on current demand * No boosting for high level zones, loss of supply for some customers	* Requesting bottled water * SDCC/DDC request in progress * Awaiting Energex and EMQ assistance to gain access to WTP
	Lowood	WTP - Seqwater		* Power off, no access * Unsure of raw water pumps or raw water cells flooded * > 80% reservoir storage If WTP out due to flooding for moderate period - affected towns and nearby reticulated estates requiring bottled water are Withcott, Helidon, Gatton, Grantham, Laidley, Forest Hill, Fernvale. Lowood Reservoir 1 empty due to burst on Minden main. Likely no supply NOW to the towns and nearby reticulated areas of Minden, Coolana, Tarampa, Brightview, Hatton Vale, Lockrose, Lowood West. Supply volumes held in service reservoirs in the Lowood scheme unknown.	* Requesting bottled water * Town being evacuated * Unable to get close enough to confirm situation * Operator isolated and monitoring reservoir levels Urgent bottled water supply for drinking will be likely on 12/1/11.
	Fernvale	QUU		* Burst main is draining reservoir - unsure of available volume	* Requesting bottled water
	Helensvale Estate Withcott Table Top Estate Murphy's Creek	QUU		* Helidon Water Pump Station lost in floodwaters * Withcott reservoir empty and on supplies Table Top * Helidon P/S normally supplies Helensvale Estate	* Requesting bottled water
	Esk	WTP - Seqwater		* Power off, no access * Seqwater reservoir levels - 98% * QUU pump station to Toogoolawah down - therefore no transfer to town reservoirs * Severe flooding	* Requesting bottled water * WTP maybe available once access is possible
	Toogoolawah	QUU		* QUU pump station to Toogoolawah down - therefore no transfer to Toogoolawah * Severe flooding - can't access pump station	* Requesting bottled water
Sunshine Coast	Somerset Township	WTP - Seqwater		* Currently offline, no external access	* Will be operated by local dam operators if necessary
	Wivenhoe (recreation)	WTP - Seqwater		* Currently offline, no physical access	* Will be operated if necessary
	Kenilworth	WTP - Seqwater		* No power, no access * WTP will not be available, even after access due to loss of raw water pontoon * Reservoir levels - 45%, 48hrs supply max.	* Town isolated - contacting police at 12pm to check access * 3 tankers on stand-by as soon as access is granted
	Woodford	WTP - Seqwater		* WTP offline	* Supply from NPI
	Caboolture	WTP - Seqwater		* WTP offline	* Supply from NPI
	Banksia Beach	WTP - Seqwater		* Currently supplying Bribie Island	* Local workers running plant due to access issues

Karen Cowell

From: Petula Martinz [redacted] on behalf of Dan Spiller
[Daniel.Spiller@seqwater.com.au]
Sent: Tuesday, 11 January 2011 9:04 PM
To: Ken Smith; Dan Spiller; 'Martin.PeterJ [redacted]';
'Dunn.KerryG [redacted]';
Cc: 'John.bradley [redacted]'; Barry Dennien; 'Madgwick.Darren [redacted]';
'tim.watts [redacted]'; 'lance.mccallum [redacted]';
'dawson.alistaire [redacted]';
Subject: RE: Request for logistic support - SEQ Water Grid

Ken,

Seqwater has been able to access a commercial helicopter for the day. That will be sufficient for the survey of reservoirs.

We will still require assistance with the supply of bottled water, and will continue to liaise with SDCC about that.

Thanks for your assistance.

Dan

From: Ken Smith [mailto:[redacted]]
Sent: Tuesday, 11 January 2011 7:06 PM
To: Dan Spiller; 'Martin.PeterJ [redacted]'; 'Dunn.KerryG [redacted]';
Cc: 'John.bradley [redacted]'; Barry Dennien; 'Madgwick.Darren [redacted]';
'tim.watts [redacted]'; 'lance.mccallum [redacted]'; 'dawson.alistaire [redacted]';
Subject: Re: Request for logistic support - SEQ Water Grid

Dan

I will take up these logistical support issues with a/asst commissioner Alistair Dawson

From: Petula Martinz <Petula.Martinz [redacted]>
To: Peter Martin <Martin.PeterJ [redacted]>; Kerry Dunn [redacted]
Cc: Ken Smith; john.bradley [redacted] <john.bradley [redacted]>; Barry Dennien
<Barry.Dennien [redacted]>; Darren Madgwick <Madgwick.Darren [redacted]>; Tim Watts
<tim.watts [redacted]>; Lance McCallum <lance.mccallum [redacted]>
Sent: Tue Jan 11 19:00:36 2011
Subject: FW: Request for logistic support - SEQ Water Grid

All,

As noted below, there are a number of stand-alone towns in the Scenic Rim and Somerset areas that have run out of supply or are expected to do so tomorrow.

Most of these towns are isolated. While we have tanker trucks on standby, these cannot access the areas. We also cannot access the reservoirs to confirm the amount in storage and the need and priority to supply of bottled water.

Our recommendation is that a helicopter be prioritised to early tomorrow to:

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- transport a QUU and a Seqwater officer to other isolated towns, allowing them to confirm remaining reservoir levels and provide advice and the need for supply of bottled water.

We are preparing a proposed itinerary and timetable.

We appreciate that these resources will need to be prioritised against other needs. We appreciate your advice and assistance.

We are receiving good support on a number of other issues.

Regards,
Dan

From: Lee Hutchison
Sent: Tuesday, 11 January 2011 6:46 PM
To: sdclogs [REDACTED]
Cc: SEQWGM Emergency; Dan Spiller
Subject: FW: Request for logistic support - SEQ Water Grid
Importance: High

Further to the below, please find attached the latest update. Please note that Fernvale a sub-district of Lowood is now out of water. It is the highest priority for resupply of potable water within the attached list.

We do not have any internal capacity to carry out the resupply to Fernvale as it is cut off by road.

Please acknowledge receipt and do not hesitate to contact our Emergency Manager on [REDACTED] (24/7).

Regards,

Scott Denner
Duty Emergency Executive
[REDACTED]

From: Lee Hutchison
Sent: Tuesday, 11 January 2011 4:25 PM
To: 'sdclogs' [REDACTED]
Cc: SEQWGM Emergency
Subject: Request for logistic support - SEQ Water Grid

Per telecom at 1605hr, please find attached a log of requested support tasks consisting of 5 towns requiring the supply of potable water (thru tanker or bottled water), and one water treatment plant requiring a resupply of lime.

The attachment includes detail of the time-line for supply of water to townships, based on what remains within the reservoirs at present.

With regards to the Water Treatment Plant, we have procured some lime, but are unable to get it to the plant. The plant supplies approx 40,000 pers on the Sunshine Coast, and will fail within 24 hours.

Included in the attachment are the contact details for personnel at a local level best able to answer queries and to coordinate movements and local support.

Regards

Scott Denner
Duty Emergency Executive
[REDACTED]

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Karen Cowell

From: Dan Spiller [REDACTED]
Sent: Tuesday, 11 January 2011 10:19 PM
To: stephen.robertson([REDACTED]); Lance McCallum ([lance.mccallum@seqwg.com.au]); Tim Watts ([REDACTED]); Geoff Stead (geoff.stead@seqwg.com.au); Lauren Sims ([REDACTED]); John Bradley (john.bradley@seqwg.com.au); Debbie Best (debbie.best@seqwg.com.au); Martin Peter J [REDACTED]; Dunn Kerry G [REDACTED]; Ken Smith [REDACTED]
Cc: Rob Drury ([REDACTED]); Barry Dennien; Peter Borrows; SEQWGM Media; SEQWGM Emergency; Madgwick.Darren ([REDACTED])
Subject: Wivenhoe Dam update
Attachments: Technical Situation Report W44.docx

All,

Attached is the most recent technical situation report.

Note that Wivenhoe Dam levels have stabilised and are now falling slowly. Without further rainfall, release rates will be reduced progressively. The first reduction will be to 7,100 cubic metres per second.

Regards,
Daniel Spiller

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TECHNICAL SITUATION REPORT

TSR Number	W44	Date of TSR release	11.1.2011	Time of TSR release	8pm
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Seqwater status of inflows and dam operations

Current status but could change based on inflows or rainfall.

Current objectives	<ul style="list-style-type: none"> Initiate the gradual reduction of releases. 										
Strategy	<ul style="list-style-type: none"> Peak inflows into Wivenhoe were in excess of 12000 cumecs. Maintain controlled releases. Keep sluices closed at Somerset Dam to store more water however will affect upstream areas. 										
Key considerations	<table> <tr> <td>Storage levels:</td><td>Above FSL</td></tr> <tr> <td>Inflows:</td><td>Inflows expected well over 1,500,000ML.</td></tr> <tr> <td>Rainfall:</td><td>Continuing</td></tr> <tr> <td>Lockyer/Bremer:</td><td>Monitoring their inflows</td></tr> <tr> <td>Brisbane River:</td><td>Impact as below.</td></tr> </table>	Storage levels:	Above FSL	Inflows:	Inflows expected well over 1,500,000ML.	Rainfall:	Continuing	Lockyer/Bremer:	Monitoring their inflows	Brisbane River:	Impact as below.
Storage levels:	Above FSL										
Inflows:	Inflows expected well over 1,500,000ML.										
Rainfall:	Continuing										
Lockyer/Bremer:	Monitoring their inflows										
Brisbane River:	Impact as below.										

Somerset/Wivenhoe

Our strategy revolves ensuring dam security and is around trying to prevent initiation of the first fuse plug at EL 75.6m. If this happens we will get a rapid increase of about 2,000m³/s in outflow from the dam in addition to the gate release which could be as high as 10,000m³/s at the time.

Sluices have been closed at Somerset and this will result in high upstream water levels affecting Kilcoy. Somerset is at 104.78m holding 697,400ML and 183.6%.

Somerset should peak at around 105.2m (1974 peak level was 106.5m).

At 2100 Wivenhoe Dam was 74.95m AHD holding 2,223,000ML and 190.8% and slowly dropping.

The levels have now stabilized and commenced to fall slowly.

The FOC has begun an appropriate closure sequence to reduce releases. Releases will be reduced slowly throughout the night to track dropping levels. First reduction will be to around 7,100cumecs.

Assuming no further rain, the dam has now peaked around 74.97m AHD which was around 600mm below the first fuse plug initiation level.

The Flood Operations Centre is continuing to monitor rainfalls and water levels through the Brisbane and Pine catchments and reviewing operating strategy every 30 minutes. The FOC is also maintaining close contact with warning agencies and local councils.

It should be noted that the flow in the lower Brisbane R in 1974 was about 9,500m³/s

North Pine Dam:

Five gates are open and continuing to drop. Releases may still continue until Wednesday 12 January.

The local Council is being kept informed regarding Youngs Crossing.

Leslie Harrison Dam:

Gate releases are underway due to rainfall and inflows.

Hinze Dam:

A release of around 8,000 megalitres a day is being made through the emergency gates. There is no public access to the spillway.

Seqwater Technical Officer name	Robert Drury
Seqwater Technical Officer position title	Dam Operations Manager

BoM assessment

(consisting of references to latest Flood Warning for the Brisbane River and other relevant Bureau forecasts and warnings (e.g. weather/rain forecasts, Tropical Cyclone Warning etc) and other updates/comments if needed)

BoM has been advised.

BoM Technical Officer name	Peter Baddiley
BoM Technical Officer position title	
BoM Technical Officer contact details	

Brisbane City Council (BCC) assessment

(to include predicted local inundation areas and depths of inundation based on the information)

Council has been advised of the current strategy

BCC Technical Officer name	Chris Lavin
BCC Technical Officer position title	Disaster Operations Manager
BCC Technical Officer contact details	

Ipswich City Council (ICC) assessment (if required)

(to include predicted local inundation areas and depths of inundation based on the information)

Council has been advised of the current strategy.

ICC Technical Officer name	Tony Trace
ICC Technical Officer position title	Local Disaster Response Coordinator
ICC Technical Officer contact details	

Somerset Regional Council (SRC) assessment (if required)

(to include predicted local inundation areas and depths of inundation based on the information)

Council has been advised of the current strategy.

SRC Technical Officer name	Tony Jacobs
SRC Technical Officer position title	Local Disaster Response Coordinator
SRC Technical Officer contact details	

Collated and distributed by (Agency)

Contact Officer signature	
Contact Officer name	Rob Drury
Contact Officer position title	Dam Operations Manager

Next TSR due	Date	11.1.2011	Time	PM	or Event	
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Karen Cowell

From: Dan Spiller [Daniel.Spiller@...]
Sent: Tuesday, 11 January 2011 10:40 PM
To: Ken Smith; 'Martin.PeterJ@...'; 'Dunn.KerryG@...'
Cc: 'John.bradley@...'; Barry Dennien; 'Madgwick.DarrenT@...';
'tim.watts@...'; 'lance.mccallum@...';
'dawson.alistaire@...'
Subject: RE: Request for logistic support - SEQ Water Grid

All,

A helicopter has been arranged through

Thank you for your assistance

Regards,
Dan

From: Ken Smith [mailto:Ken.Smith@...]
Sent: Tuesday, January 11, 2011 7:06 PM
To: Dan Spiller; 'Martin.PeterJ@...'; 'Dunn.KerryG@...'
Cc: 'John.bradley@...'; Barry Dennien; 'Madgwick.DarrenT@...';
'tim.watts@...'; 'lance.mccallum@...'; 'dawson.alistaire@...'
Subject: Re: Request for logistic support - SEQ Water Grid

Dan

I will take up these logistical support issues with asst commissioner Alistair Dawson

From: Petula Martinz <petula.martinz@...>
To: Peter Martin <Martin.PeterJ@...>; Kerry Dunn <Dunn.KerryG@...>
Cc: Ken Smith; john.bradley <john.bradley@...>; Barry Dennien
<Barry.Dennien@...>; Darren Madgwick <Madgwick.DarrenT@...>; Tim Watts
<tim.watts@...>; Lance McCallum <lance.mccallum@...>
Sent: Tue Jan 11 19:00:36 2011
Subject: FW: Request for logistic support - SEQ Water Grid

All,

As noted below, there are a number of stand-alone towns in the Scenic Rim and Somerset areas that have run out of supply or are expected to do so tomorrow.

Most of these towns are isolated. While we have tanker trucks on standby, these cannot access the areas. We also cannot access the reservoirs to confirm the amount in storage and the need and priority to supply of bottled water.

Our recommendation is that a helicopter be prioritised to early tomorrow to:

- transport operators to the Kilcoy site, which should be able to recommence supply (avoiding the need for air supply of bottled water)
- transport a QUU and a Seqwater officer to other isolated towns, allowing them to confirm remaining reservoir levels and provide advice and the need for supply of bottled water.

We are preparing a proposed itinerary and timetable.

We appreciate that these resources will need to be prioritised against other needs. We appreciate your advice and assistance.

We are receiving good support on a number of other issues.

Regards,
Dan

From: Lee Hutchison
Sent: Tuesday, 11 January 2011 6:46 PM
To: sdcclogs [REDACTED]
Cc: SEQWGM Emergency; Dan Spiller
Subject: FW: Request for logistic support - SEQ Water Grid
Importance: High

Further to the below, please find attached the latest update. Please note that Fernvale a sub-district of Lowood is now out of water. It is the highest priority for resupply of potable water within the attached list.

We do not have any internal capacity to carry out the resupply to Fernvale as it is cut off by road.

Please acknowledge receipt and do not hesitate to contact our Emergency Manager or [REDACTED] (24/7).

Regards,

Scott Denner
Duty Emergency Executive
[REDACTED]

From: Lee Hutchison
Sent: Tuesday, 11 January 2011 4:25 PM
To: 'sdcclogs' [REDACTED]
Cc: SEQWGM Emergency
Subject: Request for logistic support - SEQ Water Grid

Per telecom at 1605hr, please find attached a log of requested support tasks consisting of 5 towns requiring the supply of potable water (thru tanker or bottled water), and one water treatment plant requiring a resupply of lime.

The attachment includes detail of the time-line for supply of water to townships, based on what remains within the reservoirs at present.

With regards to the Water Treatment Plant, we have procured some lime, but are unable to get it to the plant. The plant supplies approx 40,000 pers on the Sunshine Coast, and will fail within 24 hours.

Included in the attachment are the contact details for personnel at a local level best able to answer queries and to coordinate movements and local support.

Regards

Scott Denner
Duty Emergency Executive
[REDACTED]

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Karen Cowell

From: Dan Spiller [Daniel.Spiller [REDACTED]]
Sent: Tuesday, 11 January 2011 11:43 PM
To: 'stephen.robertson [REDACTED]'; Ken Smith; 'john.bradley [REDACTED]';
'Lance McCallum (lance.mccallum [REDACTED])'; 'Tim Watts
(tim.watts [REDACTED])'; 'Geoff Stead (geoff.stead [REDACTED])';
'lauren.sims@ [REDACTED]'; 'Martin.PeterJ [REDACTED]';
'Dunn.KerryG@ [REDACTED]';
Cc: Barry Dennien; 'pborrows [REDACTED]'; 'Rob Drury'; SEQWGM Media; SEQWGM
Emergency; 'bob.reilly [REDACTED]'; 'Damien Brown
(damien.brown [REDACTED])'; 'Madgwick.DarrenT [REDACTED]';
Subject: Updated Wivenhoe Dam releases
Attachments: Technical Situation Report W46.docx

All,

Updated report attached.

At 2300, Wivenhoe Dam was at 74.92m AHD (190.4%) and holding.

The Flood Operations Centre has commenced a closure sequence. At 2330, releases will be reduced to 6,100 cubic metres per second.

The centre will continue to monitor rainfall and inflows and adjust as necessary.

With releases having peaked, the next report will be provided at 0500.

Regards,
Dan

From: Rob Drury [mailto:[REDACTED]]
Sent: Tuesday, January 11, 2011 11:21 PM
To: Rob Drury; Dan Spiller; Paul Bird; Stan Stevenson; Peter Borrows; [Peter.Aller \[REDACTED\]](#)
Cc: David Roberts; Duty Seq
Subject: RE: Technical Report

Attached report W46.

Next report will be 5am Wednesday 12.1.2011.

Rob

Robert Drury
Dam Operations Manager
Water Delivery
Queensland Bulk Water Supply Authority trading as Seqwater



Swimming in weirs and
flowing water is FA

rethink



Wivenhoe Dam, Brisbane Valley Highway, via Fernvale Q4306 Australia
PO Box 37, Fernvale QLD 4306
Website | www.seqwater.com.au

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TECHNICAL SITUATION REPORT

TSR Number	W46	Date of TSR release	11.1.2011	Time of TSR release	11pm
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Seqwater status of inflows and dam operations

Current status but could change based on inflows or rainfall.

Current objectives	<ul style="list-style-type: none"> Gradual reduction of releases. 										
Strategy	<ul style="list-style-type: none"> Peak inflows into Wivenhoe were in excess of 12000 cumecs. Maintain controlled releases. Keep sluices closed at Somerset Dam to store more water however will affect upstream areas. 										
Key considerations	<table> <tr> <td>Storage levels:</td><td>Above FSL</td></tr> <tr> <td>Inflows:</td><td>Inflows expected well over 1,500,000ML.</td></tr> <tr> <td>Rainfall:</td><td>Continuing</td></tr> <tr> <td>Lockyer/Bremer:</td><td>Monitoring their inflows</td></tr> <tr> <td>Brisbane River:</td><td>Impact as below.</td></tr> </table>	Storage levels:	Above FSL	Inflows:	Inflows expected well over 1,500,000ML.	Rainfall:	Continuing	Lockyer/Bremer:	Monitoring their inflows	Brisbane River:	Impact as below.
Storage levels:	Above FSL										
Inflows:	Inflows expected well over 1,500,000ML.										
Rainfall:	Continuing										
Lockyer/Bremer:	Monitoring their inflows										
Brisbane River:	Impact as below.										

Somerset/Wivenhoe

Our strategy revolves ensuring dam security and is around trying to prevent initiation of the first fuse plug at EL 75.6m. If this happens we will get a rapid increase of about 2,000m³/s in outflow from the dam in addition to the gate release which could be as high as 10,000m³/s at the time.

Sluices have been closed at Somerset and this will result in high upstream water levels affecting Kilcoy. Somerset is at 104.90m holding 705,730ML and 185.8%.

Somerset should peak at around 105.2m (1974 peak level was 106.5m).

At 2300 Wivenhoe Dam was 74.92m AHD holding 2,219,000ML and 190.4%.

The FOC has begun an appropriate closure sequence to reduce releases. Releases will be reduced throughout the night to track dropping levels. Another reduction will commence around 23:30 to 6,100cumecs. Further reductions will occur over night.

Assuming no further rain, the dam peaked around 74.97m AHD which was around 600mm below the first fuse plug initiation level.

The Flood Operations Centre is continuing to monitor rainfalls and water levels through the Brisbane and Pine catchments and reviewing operating strategy every 30 minutes. The FOC is also maintaining close contact with warning agencies and local councils.

It should be noted that the flow in the lower Brisbane R in 1974 was about 9,500m³/s

North Pine Dam:

Five gates are open and continuing to drop. Releases may still continue until Wednesday 12 January.

The local Council is being kept informed regarding Youngs Crossing.

Leslie Harrison Dam:

Gate releases are underway due to rainfall and inflows.

Hinze Dam:

A release of around 8,000 megalitres a day is being made through the emergency gates. There is no public access to the spillway.

Seqwater Technical Officer name	Robert Drury
Seqwater Technical Officer position title	Dam Operations Manager

BoM assessment

(consisting of references to latest Flood Warning for the Brisbane River and other relevant Bureau forecasts and warnings (e.g. weather/rain forecasts, Tropical Cyclone Warning etc) and other updates/comments if needed)

BoM has been advised.

BoM Technical Officer name	Peter Baddiley
BoM Technical Officer position title	
BoM Technical Officer contact details	

Brisbane City Council (BCC) assessment

(to include predicted local inundation areas and depths of inundation based on the information)

Council has been advised of the current strategy

BCC Technical Officer name	Chris Lavin
BCC Technical Officer position title	Disaster Operations Manager
BCC Technical Officer contact details	

Ipswich City Council (ICC) assessment (if required)

(to include predicted local inundation areas and depths of inundation based on the information)

Council has been advised of the current strategy.

ICC Technical Officer name	Tony Trace
ICC Technical Officer position title	Local Disaster Response Coordinator
ICC Technical Officer contact details	

Somerset Regional Council (SRC) assessment (if required)

(to include predicted local inundation areas and depths of inundation based on the information)

Council has been advised of the current strategy.

SRC Technical Officer name	Tony Jacobs
SRC Technical Officer position title	Local Disaster Response Coordinator
SRC Technical Officer contact details	

Collated and distributed by (Agency)

Contact Officer signature	
Contact Officer name	Rob Drury
Contact Officer position title	Dam Operations Manager

Next TSR due	Date	12.1.2011	Time	AM	or Event	
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Karen Cowell

From: Dan Spiller [Daniel.Spiller@seqwater.qld.gov.au]
Sent: Wednesday, 12 January 2011 5:37 AM
To: stephen.robertson@seqwater.qld.gov.au; Ken Smith; Bradley John; lance.mccallum@seqwater.qld.gov.au; Tim.Watts@seqwater.qld.gov.au; Geoff.Stead@seqwater.qld.gov.au; Lauren.Sims@seqwater.qld.gov.au; 'Martin.PeterJ@seqwater.qld.gov.au'; Dunn.KerryG@seqwater.qld.gov.au; Best Debbie
Cc: Barry Dennien; Peter Borrows; Rob Drury; SEQWGM Media; SEQWGM Emergency; Madgwick.DarrenT@seqwater.qld.gov.au; damien.brown@seqwater.qld.gov.au; Reilly Bob
Subject: Dam release update
Attachments: Technical Situation Report W47.docx

All,

Attached is the most recent situation report.

There was minimum rainfall in the catchment last night, meaning that dam levels and release rates were reduced.

Wivenhoe Dam is currently at 188%, having peaked at about 191% (74.97m AHD, about 0.6m below the first fuse peak). Somerset Dam is at about 190%, which is its peak level.

Releases are now at 4,300 cubic metres per second (about 370,000 ML/day), having peaked at 7,500 cubic metres per second (about 650,000 ML/day) for a couple of hours.

We will update the report about every three hours. The next report will include more information about the closing sequence, including the broad timeframes for dam levels to be reduced. Note that, while dam levels are reducing, they remain at critical levels.

An update on water treatment will be provided later this morning.

Please call me on [REDACTED] if you require further information.

Regards,
Dan

Daniel Spiller
Director, Operations
SEQ Water Grid Manager

Phone: [REDACTED]
Email: daniel.spiller@seqwater.qld.gov.au
Visit: Level 15, 53 Albert Street Brisbane
Post: PO Box 16205, City East QLD 4002
ABN: 14783 317 630

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TECHNICAL SITUATION REPORT

TSR Number	W47	Date of TSR release	12.1.2011	Time of TSR release	5am
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Seqwater status of inflows and dam operations

Current status but could change based on inflows or rainfall.

Current objectives	<ul style="list-style-type: none"> Gradual reduction of releases. 										
Strategy	<ul style="list-style-type: none"> Peak inflows into Wivenhoe were in excess of 12000 cumecs. Maintain controlled releases. Keep sluices closed at Somerset Dam to store more water however will affect upstream areas. 										
Key considerations	<table> <tr> <td>Storage levels:</td><td>Above FSL</td></tr> <tr> <td>Inflows:</td><td>Inflows expected well over 1,500,000ML.</td></tr> <tr> <td>Rainfall:</td><td>Continuing</td></tr> <tr> <td>Lockyer/Bremer:</td><td>Monitoring their inflows</td></tr> <tr> <td>Brisbane River:</td><td>Impact as below.</td></tr> </table>	Storage levels:	Above FSL	Inflows:	Inflows expected well over 1,500,000ML.	Rainfall:	Continuing	Lockyer/Bremer:	Monitoring their inflows	Brisbane River:	Impact as below.
Storage levels:	Above FSL										
Inflows:	Inflows expected well over 1,500,000ML.										
Rainfall:	Continuing										
Lockyer/Bremer:	Monitoring their inflows										
Brisbane River:	Impact as below.										

Somerset/Wivenhoe

Our strategy revolved ensuring dam security and was around trying to prevent initiation of the first fuse plug at EL 75.6m. If this happens we will get a rapid increase of about 2,000m³/s in outflow from the dam in addition to the gate release which could be as high as 10,000m³/s at the time.

Only minimal falls occurred overnight in the order of mm.

Sluices have been closed at Somerset and this will result in high upstream water levels affecting Kilcoy. Somerset is at 105.1m holding 719730ML and 189.5%. Some flows are going over the Somerset spillway.

Somerset should peak at around 105.2m (1974 peak level was 106.5m).

At 0500 Wivenhoe Dam was 74.77m AHD holding 2,195,287ML and 188%.

The FOC has begun an appropriate closure sequence to reduce releases.

Current release rate is 4,300cumecs.
Further reductions will occur throughout the week..

Assuming no further rain, the dam peaked around 74.97m AHD which was around 600mm below the first fuse plug initiation level.

The Flood Operations Centre is continuing to monitor rainfalls and water levels through the Brisbane and Pine catchments and reviewing operating strategy every 30 minutes. The FOC is also maintaining close contact with warning agencies and local councils.

It should be noted that the flow in the lower Brisbane R in 1974 was about 9,500m³/s

North Pine Dam:

Five gates are open and continuing to drop. Releases may still continue until Wednesday 12 January. The event magnitude is estimated to be a 1:10,000 year exceedance probability.

The local Council is being kept informed regarding Youngs Crossing.

Leslie Harrison Dam:

Gate releases are underway due to rainfall and inflows.

Hinze Dam:

A release of around 8,000 megalitres a day is being made through the emergency gates. There is no public access to the spillway.

Seqwater Technical Officer name	Robert Drury
Seqwater Technical Officer position title	Dam Operations Manager

BoM assessment

(consisting of references to latest Flood Warning for the Brisbane River and other relevant Bureau forecasts and warnings (e.g. weather/rain forecasts, Tropical Cyclone Warning etc) and other updates/comments if needed)

BoM has been advised.

BoM Technical Officer name	Peter Baddiley
BoM Technical Officer position title	
BoM Technical Officer contact details	

Brisbane City Council (BCC) assessment

(to include predicted local inundation areas and depths of inundation based on the information)

Council has been advised of the current strategy

BCC Technical Officer name	Chris Lavin
BCC Technical Officer position title	Disaster Operations Manager
BCC Technical Officer contact details	

Ipswich City Council (ICC) assessment (if required)

(to include predicted local inundation areas and depths of inundation based on the information)

Council has been advised of the current strategy.

ICC Technical Officer name	Tony Trace
ICC Technical Officer position title	Local Disaster Response Coordinator
ICC Technical Officer contact details	

Somerset Regional Council (SRC) assessment (if required)

(to include predicted local inundation areas and depths of inundation based on the information)

Council has been advised of the current strategy.

SRC Technical Officer name	Tony Jacobs
SRC Technical Officer position title	Local Disaster Response Coordinator
SRC Technical Officer contact details	

Collated and distributed by (Agency)

Contact Officer signature	
Contact Officer name	Rob Drury
Contact Officer position title	Dam Operations Manager

Next TSR due	Date	12.1.2011	Time	PM	or Event	
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Karen Cowell

From: Dan Spiller [Daniel.Spiller@]
Sent: Wednesday, 12 January 2011 9:00 AM
To: 'stephen.robertson'; Ken Smith; 'Bradley John';
'lance.mccallum'; Tim.Watts;
'Geoff.Stead'; 'Lauren.Sims';
'Martin.PeterJ'; 'Dunn.KerryG'; 'Best Debbie'
Cc: Barry Dennien; 'Peter Borrows'; 'Rob Drury'; SEQWGM Media; SEQWGM Emergency;
'Madgwick.DarrenT'; 'damien.brown'; Reilly Bob'
Subject: Dam release update
Attachments: Technical Situation Report W48.docx

All,

Attached is an updated Technical Support Report, including advice about the gate closure process.

Note that releases have been reduced to 2,500 cubic metres per second while peak Lockyer Valley flows pass. Increases will then increase to 3,500 cubic metres per second.

Please call me or [redacted] if you require further information.

Regards,
Dan

Daniel Spiller
Director, Operations
SEQ Water Grid Manager

Phone: ([redacted])
Email: daniel.spiller@ [redacted]
Visit: Level 15, 53 Albert Street Brisbane
Post: PO Box 16205, City East QLD 4002
ABN: 14783 317 630

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TECHNICAL SITUATION REPORT

TSR Number	W48	Date of TSR release	12.1.2011	Time of TSR release	8am
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Seqwater status of inflows and dam operations

Current status but could change based on inflows or rainfall.

Current objectives	<ul style="list-style-type: none"> Gradual reduction of releases. 										
Strategy	<ul style="list-style-type: none"> Peak inflows into Wivenhoe were in excess of 12000 cumecs. Develop and implement closing plan for next 7 or so days 										
Key considerations	<table> <tr> <td>Storage levels:</td><td>Above FSL</td></tr> <tr> <td>Inflows:</td><td>Inflows expected well over 2,000,000ML.</td></tr> <tr> <td>Rainfall:</td><td>Continuing</td></tr> <tr> <td>Lockyer/Bremer:</td><td>Monitoring their inflows</td></tr> <tr> <td>Brisbane River:</td><td>Impact as below.</td></tr> </table>	Storage levels:	Above FSL	Inflows:	Inflows expected well over 2,000,000ML.	Rainfall:	Continuing	Lockyer/Bremer:	Monitoring their inflows	Brisbane River:	Impact as below.
Storage levels:	Above FSL										
Inflows:	Inflows expected well over 2,000,000ML.										
Rainfall:	Continuing										
Lockyer/Bremer:	Monitoring their inflows										
Brisbane River:	Impact as below.										

Rainfall

No significant rain has fallen over the catchments in the past twelve hours. Less than 10 to 15 millimeters of rainfall is expected over the next 24-48 hours.

Somerset/Wivenhoe

Somerset Dam has peaked at 105.11 m AHD at 08:00 on 12 January 2011 and the dam is discharging 1,230 m³/s over the spillway. Sluice gates will be utilised to assist the draining of the flood storage compartment commencing later Wednesday. At 8am Somerset was 105.11m and 720,400ML at 189.7%.

Wivenhoe Dam peaked at 74.97 m AHD at 19:00 on 11 January 2011 with a corresponding discharge of 7,450 m³/s. Wivenhoe Dam was 74.75 m AHD at 2,192,000ML and 188.1% at 07:30 and generally falling slowly.

The releases from Wivenhoe Dam have been temporarily reduced to 2,500 m³/s at 07:30 to allow the peak of Lockyer Creek to enter the Brisbane River. After the downstream peak in the lower Brisbane River has passed, releases will be increased to maximum of 3,500 m³/s. This release will then be maintained to drain the flood storage component within the required 7 days.

The combined flood event volume in Somerset and Wivenhoe Dams is estimated to be in excess of 2 million megalitres.

North Pine

At 07:00 North Pine Dam was 39.78 m AHD falling and releasing about 105 m³/s. North Pine has

peaked at 41.11 mAHD at 14:00 on 11 January 1974 with peak release of 2,800 m³/s. The event has a volume of around 200,000 ML. It is expected that gates will be close later Wednesday or early Thursday

Strategy

The Flood Operations Centre is continuing to monitor rainfalls and water levels through the Brisbane and Pine catchments and reviewing operating strategy every 30 minutes. The FOC is maintaining close contact with warning agencies and local councils.

Leslie Harrison Dam:

Gate releases are underway due to rainfall and inflows.

Hinze Dam:

A release of around 8,000 megalitres a day is being made through the emergency gates. There is no public access to the spillway.

Seqwater Technical Officer name	Robert Drury
Seqwater Technical Officer position title	Dam Operations Manager

BoM assessment

(consisting of references to latest Flood Warning for the Brisbane River and other relevant Bureau forecasts and warnings (e.g. weather/rain forecasts, Tropical Cyclone Warning etc) and other updates/comments if needed)

BoM has been advised.

BoM Technical Officer name	Peter Baddiley
BoM Technical Officer position title	
BoM Technical Officer contact details	

Brisbane City Council (BCC) assessment

(to include predicted local inundation areas and depths of inundation based on the information)

Council has been advised of the current strategy

BCC Technical Officer name	Chris Lavin
BCC Technical Officer position title	Disaster Operations Manager
BCC Technical Officer contact details	

Ipswich City Council (ICC) assessment (if required)

(to include predicted local inundation areas and depths of inundation based on the information)

Council has been advised of the current strategy.

ICC Technical Officer name	Tony Trace
ICC Technical Officer position title	Local Disaster Response Coordinator
ICC Technical Officer contact details	

Somerset Regional Council (SRC) assessment (if required)

(to include predicted local inundation areas and depths of inundation based on the information)

Council has been advised of the current strategy.

SRC Technical Officer name	Tony Jacobs
SRC Technical Officer position title	Local Disaster Response Coordinator
SRC Technical Officer contact details	

Collated and distributed by (Agency)

Contact Officer signature	
Contact Officer name	Rob Drury
Contact Officer position title	Dam Operations Manager

Next TSR due	Date	12.1.2011	Time	11am	or Event	
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Karen Cowell

From: Dan Spiller [Daniel.Spiller@seqwg.com.au]
Sent: Wednesday, 12 January 2011 3:52 PM
To: 'stephen.robertson@seqwg.com.au'; Ken Smith; 'Bradley John'; 'lance.mccallum@seqwg.com.au'; 'Tim.Watts@seqwg.com.au'; 'Geoff.Stead@seqwg.com.au'; 'Lauren.Sims@seqwg.com.au'; 'Martin.PeterJ@seqwg.com.au'; 'Dunn.KerryG@seqwg.com.au'; 'Best Debbie'
Cc: Barry Dennien; 'Peter Borrows'; 'Rob Drury'; SEQWGM Media; SEQWGM Emergency; 'Madgwick.DarrenT@seqwg.com.au'; 'damien.brown@seqwg.com.au'; 'Reilly Bob'; seqwg@seqwg.com.au
Subject: Dam release update
Attachments: Technical_Situation_Report_W50.docx

All,

Attached is an updated Technical Support Report, including advice about the gate closure process.

The Wivenhoe Dam release rate has been maintained at 2,500 cubic metres per second. Dam levels have reduced slightly.

Please call me on [REDACTED] if you require further information.

Regards,
Dan

Daniel Spiller
Director, Operations
SEQ Water Grid Manager

Phone [REDACTED]
Email: daniel.spiller@seqwg.com.au
Visit: Level 15, 53 Albert Street Brisbane
Post: PO Box 16205, City East QLD 4002
ABN: 14783 317 630

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TECHNICAL SITUATION REPORT

TSR Number	W50	Date of TSR release	12.1.2011	Time of TSR release	3pm
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Seqwater status of inflows and dam operations

Current status but could change based on inflows or rainfall.

Current objectives	<ul style="list-style-type: none"> Gradual release of stored floodwaters with minimal impact. 										
Strategy	<ul style="list-style-type: none"> Peak inflows into Wivenhoe were in excess of 12000 cumecs. Continue release of water from Somerset into Wivenhoe to reduce impacts upstream in Kilcoy area Maintain reduced release from Wivenhoe until Lockyer flows are reduced and then increase to discharge flood waters over 7 days 										
Key considerations	<table> <tr> <td>Storage levels:</td><td>Above FSL</td></tr> <tr> <td>Inflows:</td><td>Inflows expected well over 2,300,000ML.</td></tr> <tr> <td>Rainfall:</td><td>Continuing</td></tr> <tr> <td>Lockyer/Bremer:</td><td>Monitoring their inflows</td></tr> <tr> <td>Brisbane River:</td><td>Impact as below.</td></tr> </table>	Storage levels:	Above FSL	Inflows:	Inflows expected well over 2,300,000ML.	Rainfall:	Continuing	Lockyer/Bremer:	Monitoring their inflows	Brisbane River:	Impact as below.
Storage levels:	Above FSL										
Inflows:	Inflows expected well over 2,300,000ML.										
Rainfall:	Continuing										
Lockyer/Bremer:	Monitoring their inflows										
Brisbane River:	Impact as below.										

Rainfall

Rainfall in the last 12 hours is generally below 5mm with a couple of 10mm falls in the Stanley and North Pine catchments. There is no significant rain expected in the next 4 days.

Somerset/Wivenhoe

Somerset Dam has peaked at 105.11 m AHD at 08:00 on 12 January 2011 and the dam has been discharging over the spillway. One sluice was opened at 1030 12 January 2011 and the dam is discharging 1,440 m³/s. Sluice gates will be utilised to drain of the flood storage compartment during the next 5 days.

At 3pm Somerset was 104.94m and 708,505ML at 186.5%.

Wivenhoe Dam peaked at 74.97 m AHD at 19:00 on 11 January 2011 with a corresponding discharge of 7,450 m³/s

The releases from Wivenhoe Dam have been temporarily reduced to 2,500 m³/s at 07:30 to allow the peak of Lockyer Creek to enter the Brisbane River. After the downstream peak in the lower Brisbane River has passed, releases will be increased to maximum of 3,500 m³/s. This release will then be maintained to drain the flood storage component within the required 7 days.

At 3pm Wivenhoe Dam was 74.81 m AHD at 2,201,636ML and 188.9% and fluctuating slightly due to the releases coming from Somerset but relatively steady.

The combined flood event volume in Somerset and Wivenhoe Dams is estimated to be approximately 2.6 million megalitres.

North Pine

North Pine peaked at 41.11 mAHD at 14:00 on 11 January 1974 with peak release of 2,800 m³/s. The event has a volume of around 200,000 ML.

At 3.00pm North Pine Dam was 39.74 mAHD and 217,370 ML and 101.4% and slowly falling. It is expected that gates will be closed Thursday or Friday.

Strategy

The Flood Operations Centre is continuing to monitor rainfalls and water levels through the Brisbane and Pine catchments and reviewing operating strategy every 30 minutes. The FOC is maintaining close contact with warning agencies and local councils.

Leslie Harrison Dam:

Gate releases are underway due to rainfall and inflows.

Hinze Dam:

A release of around 8,000 megalitres a day is being made through the emergency gates. There is no public access to the spillway.

Seqwater Technical Officer name	Robert Drury
Seqwater Technical Officer position title	Dam Operations Manager

BoM assessment

(consisting of references to latest Flood Warning for the Brisbane River and other relevant Bureau forecasts and warnings (e.g. weather/rain forecasts, Tropical Cyclone Warning etc) and other updates/comments if needed)

BoM has been advised.

BoM Technical Officer name	Peter Baddiley
BoM Technical Officer position title	
BoM Technical Officer contact details	

Brisbane City Council (BCC) assessment

(to include predicted local inundation areas and depths of inundation based on the information)

Council has been advised of the current strategy

BCC Technical Officer name	Chris Lavin
BCC Technical Officer position title	Disaster Operations Manager
BCC Technical Officer contact details	

Ipswich City Council (ICC) assessment (if required)

(to include predicted local inundation areas and depths of inundation based on the information)

Council has been advised of the current strategy.

ICC Technical Officer name	Tony Trace
ICC Technical Officer position title	Local Disaster Response Coordinator
ICC Technical Officer contact details	

Somerset Regional Council (SRC) assessment (if required)

(to include predicted local inundation areas and depths of inundation based on the information)

Council has been advised of the current strategy.

SRC Technical Officer name	Tony Jacobs
SRC Technical Officer position title	Local Disaster Response Coordinator
SRC Technical Officer contact details	

Collated and distributed by (Agency)

Contact Officer signature	
Contact Officer name	Rob Drury
Contact Officer position title	Dam Operations Manager

Next TSR due	Date	12.1.2011	Time	8pm	or Event	
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Karen Cowell

From: Dan Spiller [Daniel.S. [REDACTED]]
Sent: Wednesday, 12 January 2011 8:34 PM
To: 'stephen.roberts [REDACTED]'; Ken Smith; 'Bradley John';
'lance.mccallum [REDACTED]'; 'Jim.Watts [REDACTED]';
'Geoff.Stead [REDACTED]'; 'Lauren.Sims [REDACTED]';
'Martin.PeterJ [REDACTED]'; 'Dunn.KerryG [REDACTED]'; 'Best Debbie'
Cc: Barry Dennien; 'Peter Borrows'; 'Rob Drury'; SEQWGM Media; SEQWGM Emergency;
'Madgwick.Darren [REDACTED]'; 'damien.brown [REDACTED]'; 'Reilly Bob';
seqwgr [REDACTED]
Subject: RE: Dam release update
Attachments: Technical_Situation_Report_W51.docx

All,

Attached is an updated Technical Support Report.

Please call me on [REDACTED] if you require further information.

Regards,
Dan

Daniel Spiller
Director, Operations
SEQ Water Grid Manager

Phone: [REDACTED]
Email: [REDACTED]
Visit: Level 15, 53 Albert Street Brisbane
Post: PO Box 16205, City East QLD 4002
ABN: 14783 317 630

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TECHNICAL SITUATION REPORT

TSR Number	W51	Date of TSR release	12.1.2011	Time of TSR release	6pm
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Seqwater status of inflows and dam operations

Current status but could change based on inflows or rainfall.

Current objectives	<ul style="list-style-type: none"> Gradual release of stored floodwaters with minimal impact.
Strategy	<ul style="list-style-type: none"> Peak inflows into Wivenhoe were in excess of 12000 cumecs. Continue release of water from Somerset into Wivenhoe to reduce impacts upstream in Kilcoy area Maintain reduced release from Wivenhoe until Lockyer flows are reduced and then increase to discharge flood waters over 7 days
Key considerations	Storage levels: Above FSL
	Inflows: Inflows expected well over 2,300,000ML.
	Rainfall: Continuing
	Lockyer/Bremer: Monitoring their inflows
	Brisbane River: Impact as below.

Rainfall

Rainfall in the last 12 hours is generally below 5mm with a couple of 10mm falls in the Stanley and North Pine catchments. There is no significant rain expected in the next 4 days.

Somerset/Wivenhoe

Somerset Dam has peaked at 105.11 mAHD at 06:00 on 12 January 2011. One sluice was opened at 1030 12 January 2011 and discharging 1,410 m³/s. Sluice gates will be utilised to drain of the flood storage compartment during the next 5 days.

At 5pm Somerset was 104.86m and 702,953ML at 185.1%.

Wivenhoe Dam peaked at 74.97 mAHD at 19:00 on 11 January 2011 with a corresponding discharge of 7,450 m³/s.

The release from Wivenhoe Dam was reduced to 2,500 m³/s at 07:30 12 January 2011 to allow the peak of Lockyer Creek to enter the Brisbane River and this release has been maintained since. After the downstream peak in the lower Brisbane River has passed, releases will be increased to maximum of 3,500 m³/s. The release is expected to commence Thursday and then be maintained at this level to drain the flood storage component within the required 7 days. The releases will not result in any renewed rises at downstream locations.

At 5pm Wivenhoe Dam was 74.82 m AHD at 2,203,223ML and 189.1% and fluctuating slightly due to the releases coming from Somerset but relatively steady.

The combined flood event volume in Somerset and Wivenhoe Dams is estimated to be approximately 2.6 million megalitres.

North Pine

At 17:00 North Pine Dam had all gates open 1 increment, releasing about 80 m3/s. North Pine peaked at 41.11 mAHd at 14:00 on 11 January 2011 with peak release of 2,800 m3/s. The event has a volume of around 200,000 ML

At 5.00pm North Pine Dam was 39.74 mAHd and 217,370 ML and 101.4% and slowly falling. It is expected that gates will be closed Thursday or Friday.

Strategy

The Flood Operations Centre is continuing to monitor rainfalls and water levels through the Brisbane and Pine catchments and reviewing operating strategy every 30 minutes. The FOC is maintaining close contact with warning agencies and local councils.

Leslie Harrison Dam:

Gate releases finished late this afternoon.

Hinze Dam:

A release of around 8,000 megalitres a day is being made through the emergency gates. There is no public access to the spillway.

Seqwater Technical Officer name	Robert Drury
Seqwater Technical Officer position title	Dam Operations Manager
[REDACTED]	

BoM assessment

(consisting of references to latest Flood Warning for the Brisbane River and other relevant Bureau forecasts and warnings (e.g. weather/rain forecasts, Tropical Cyclone Warning etc) and other updates/comments if needed)

BoM has been advised.

BoM Technical Officer name	Peter Baddiley
BoM Technical Officer position title	
BoM Technical Officer contact details	[REDACTED]

Brisbane City Council (BCC) assessment

(to include predicted local inundation areas and depths of inundation based on the information)

Council has been advised of the current strategy

BCC Technical Officer name	Chris Lavin
BCC Technical Officer position title	Disaster Operations Manager
BCC Technical Officer contact details	

Ipswich City Council (ICC) assessment (if required)

(to include predicted local inundation areas and depths of inundation based on the information)

Council has been advised of the current strategy.

ICC Technical Officer name	Tony Trace
ICC Technical Officer position title	Local Disaster Response Coordinator
ICC Technical Officer contact details	

Somerset Regional Council (SRC) assessment (if required)

(to include predicted local inundation areas and depths of inundation based on the information)

Council has been advised of the current strategy.

SRC Technical Officer name	Tony Jacobs
SRC Technical Officer position title	Local Disaster Response Coordinator
SRC Technical Officer contact details	

Collated and distributed by (Agency)

Contact Officer signature	
Contact Officer name	Rob Drury
Contact Officer position title	Dam Operations Manager

Next TSR due	Date	13.1.2011	Time	8am	or Event	
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Karen Cowell

From: Dan Spiller [REDACTED]
Sent: Thursday, 13 January 2011 3:31 AM
To: Ken Smith; 'Bradley John'; [REDACTED];
'Martin.PeterJ [REDACTED]'; 'Dunn.KerryG [REDACTED]';
'Tim.Watts [REDACTED]'; 'Ince.mccallum [REDACTED]';
'Geoff.Stea [REDACTED]'; 'stephen.rober [REDACTED]';
Cc: Barry Dennien; 'Madgwick.DarrenT [REDACTED]'; 'Best Debbie';
seqwgm [REDACTED]
Subject: Update on water Grid supply situation
Attachments: Water balance_130111.docx

Update attached for information.

Please call me on [REDACTED] if you require any further information.

Regards,
Daniel Spiller

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Central SEQ water balance

- On 12 January 2011, bulk water storage in central South East Queensland (Brisbane, Ipswich and Logan) reduced by a third from 338 to 215 ML.
- Most of the reduction was due to both of the Mt Crosby water treatment plants being taken offline.
 - The East Bank water treatment plant was partially inundated, forcing it to be shutdown for at least two days. Recovery is underway.
 - Raw water quality reduced during the day, causing treated water from the West Bank water treatment plant to exceed standard operational limits. Raw water quality increased from 1100 to 1700 NTU during the day.
- Without supply from Mt Crosby, key reservoirs around Ipswich would have been depleted on 13 January 2011.
- Table 1 lists expected production on 13 January. These are maximum production values, excluding any allowance for mechanical or other failures. By comparison, total production on 12 January was less than 200 ML due to Mt Crosby WTP being offline for much of the day and the Northern Pipeline Interconnector supplying north rather than south.
- The table also includes an indication of additional supplies that could potentially become available on 14 January, as the clean up commences. These additional supplies are subject to operational considerations, such as rectification of flood damage. Only some of these supplies are likely to become available.

Table 1: Supply to central SEQ (Brisbane, Ipswich and Logan)

Source	Planned production 13 January (ML)	Potential additional production from 14 January (ML)
Northern Pipeline Interconnector	25	
North Pine WTP	100	50
Petrie WTP	0	
Mt Crosby West Bank WTP	150	50
Mt Crosby East Bank WTP	0	100
Eastern Pipeline Interconnector	7	
Logan interconnector	20	
Southern Regional Water Pipeline ¹	100	110
Enoggera WTP and Brisbane Aquifer Project	0	TBD
Total	402	

¹ Includes supply from desalination facility.

- These supplies exceed estimated demand scenarios for the clean up period in central SEQ, as illustrated in Table 2. Forecasts are based on:
 - the proportion of residences in the area that are likely to be inundated
 - for impacted areas, demand being about double typical consumption

- for other areas, demand being around current levels.
- The forecasts highlight the importance of water conservation outside of the impacted areas, as a contingency against further operational issues (including an inability to bring on the potential additional supplies listed above).

Table 2: Estimated demand scenarios for clean up period in central SEQ (Brisbane, Ipswich and Logan)

Area	Typical	Low	Likely	High
Ipswich	42	55	61	67
Brisbane	270	265	294	324
Logan	48	43	48	53
Total	360	363	403	443

Mt Crosby operating arrangements

- As noted above, Mt Crosby West Bank WTP ceased production on 12 January 2011 due to treated water exceeding critical limits for normal operations.
- Alternative operating arrangements are now being applied, taking into account current catchment risks. These risks are considered to be considerably lessened, for a range of impacts including dilution.
- For the duration of the current flood event, the operating rules for the Mt Crosby water treatment plants are:
 - Minimum production of 150 ML/day
 - Achieve and maintain stable operation
 - Shutdown for operational reasons only, not treated water quality
 - Target of below 1 NTU in treated water
 - Periods of up to 2 NTU in treated water tolerable
 - Disinfection residual maintained at standard operating procedure
 - Note some discolouration may occur
- Queensland Health advised that:
 - Based on these operating rules, water supplied from the Mt Crosby water treatment plants is considered to have taken all necessary precautions to minimise the public health risk.
 - Further advice should be sought from Queensland Health should there be a prolonged trend to above 1.5 NTU in treated water. Production should not cease while this advice is sought. An evaluation will be made at that time to determine if water of above 2 NTU may still be safe to supply.

Mt Crosby critical logistics

- Continued operation of the Mt Crosby West Bank WTP is required to maintain water supplies in central SEQ.

- Chemical supplies are required in order to maintain continued operation. A dirt track is now accessible on the site, however supply routes from Brisbane are still flooded.
- Critical supplies are:
 - hypochlorite (2 days)
 - caustic soda (3 days)
 - alum (5 days).
- **Should supply routes not become open tomorrow, assistance will be required to transport chemicals to the site. Volumes required are relatively large.**
- Recommissioning of Mt Crosby East Bank WTP is a priority, to provide additional production and as a contingency in the event that chemicals are unable to be replenished at the site on the other side of the river.
- The East Bank WTP is both partially inundated and surrounded by flood waters, with access currently only able to be made by helicopter. A helicopter has been hired to transport additional staff to the WTP on the morning of 14 January. **It is critical that this helicopter not be reprioritised by EMQ.**

Western SEQ towns supplies

- Gatton is expected to run out of water overnight, following the loss of stored treated water.
- Supply is from the Lowood water treatment plant, which is offline due to loss of electricity and some operational issues. Energex has given electricity supply to the site a high priority.
- A number of smaller towns have already run out of supply or are expected to do so soon. QUU has started to supply bottled water to these towns via commercial helicopter.
- Tanker trucks will commence supply to towns as soon as they become accessible. **QUU is seeking advice about potential routes as they become available.**
- A boiled water notice is required when supply recommences after having run dry. A notice is required because of the risk of ingress into the pipelines. A number of these notices will be issued on 13 January 2011 for western towns.

Karen Cowell

From: Ken Smith
Sent: Monday, 10 January 2011 2:13 PM
To: 'Daniel.Spiller'; Tim.Watts; 'Geoff.Stead'; 'debbie.best'; 'Barry.Dennien'; Michael.Lyons
Cc:
Subject: Re: BCC communications update

Thanks Dan

From: Dan Spiller <Daniel.Spiller>
To: Tim.Watts; <Tim.Watts>; Geoff.Stead; <Geoff.Stead>; Ken Smith; Best Debbie <Debbie.Best>;
Cc: Barry Dennien <Barry.Dennien>; Michael Lyons <Michael.Lyons>
Sent: Mon Jan 10 13:42:29 2011
Subject: BCC communications update

For information, BCC communications had scheduled a media conference with the Deputy Mayor at 2pm.

BCC just confirmed that they are seeking to cancel this conference, pending ongoing discussions between the Premier and Mayor.

Dan

Daniel Spiller
Director, Operations
SEQ Water Grid Manager

Email: [REDACTED]
Visit: Level 15, 53 Albert Street Brisbane
Post: PO Box 16205, City East QLD 4002
ABN: 14783 317 630

Please consider the environment before printing this email. It takes 10 litres of water to make one sheet of A4 paper.

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Karen Cowell

From: Ken Smith
Sent: Tuesday, 11 January 2011 7:06 PM
To: 'Daniel.Spiller'; 'Martin.Peter';
'Dunn.KerryG';
Cc: 'John.bradley'; 'Barry.Dennien';
'Madgwick.DarrenI'; 'tim.watts';
'lance.mccallum'; 'dawson.alistaire';
Subject: Re: Request for logistic support - SEQ Water Grid

Dan

I will take up these logistical support issues with asst commissioner Alistair Dawson

From: Petula Martinz <Petula.Martinz>
To: Peter Martin <Martin.PeterJ>; Kerry Dunn <Dunn.KerryG>
Cc: Ken Smith; john.bradley; john.bradley; Barry Dennien
<Barry.Dennien>; Darren Madgwick <Madgwick.DarrenI>; Tim Watts
<tim.watts>; Lance McCallum <lance.mccallum>
Sent: Tue Jan 11 19:00:36 2011
Subject: FW: Request for logistic support - SEQ Water Grid

All,

As noted below, there are a number of stand-alone towns in the Scenic Rim and Somerset areas that have run out of supply or are expected to do so tomorrow.

Most of these towns are isolated. While we have tanker trucks on standby, these cannot access the areas. We also cannot access the reservoirs to confirm the amount in storage and the need and priority to supply of bottled water.

Our recommendation is that a helicopter be prioritised to early tomorrow to:

- transport operators to the Kilcoy site, which should be able to recommence supply (avoiding the need for air supply of bottled water)
- transport a QUU and a Seqwater officer to other isolated towns, allowing them to confirm remaining reservoir levels and provide advice and the need for supply of bottled water.

We are preparing a proposed itinerary and timetable.

We appreciate that these resources will need to be prioritised against other needs. We appreciate your advice and assistance.

We are receiving good support on a number of other issues.

Regards,
Dan

From: Lee Hutchison
Sent: Tuesday, 11 January 2011 6:46 PM
To: sdclogs
Cc: SEQWGM Emergency; Dan Spiller
Subject: FW: Request for logistic support - SEQ Water Grid
Importance: High

Further to the below, please find attached the latest update. Please note that Fernvale a sub-district of Lowood is now out of water. It is the highest priority for resupply of potable water within the attached list.

We do not have any internal capacity to carry out the resupply to Fernvale as it is cut off by road.

Please acknowledge receipt and do not hesitate to contact our Emergency Manager on [REDACTED] (24/7).

Regards,

Scott Denner
Duty Emergency Executive
[REDACTED]

From: Lee Hutchison
Sent: Tuesday, 11 January 2011 4:25 PM
To: 'sdcclogs' [REDACTED]
Cc: SEQWGM Emergency
Subject: Request for logistic support - SEQ Water Grid

Per telecom at 1605hr, please find attached a log of requested support tasks consisting of 5 towns requiring the supply of potable water (thru tanker or bottled water), and one water treatment plant requiring a resupply of lime.

The attachment includes detail of the time-line for supply of water to townships, based on what remains within the reservoirs at present.

With regards to the Water Treatment Plant, we have procured some lime, but are unable to get it to the plant. The plant supplies approx 40,000 pers on the Sunshine Coast, and will fail within 24 hours.

Included in the attachment are the contact details for personnel at a local level best able to answer queries and to coordinate movements and local support.

Regards

Scott Denner
Duty Emergency Executive
[REDACTED]

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Karen Cowell

From: Ken Smith
Sent: Tuesday, 11 January 2011 11:48 PM
To: 'Daniel.Spiller';
Subject: Re: Updated Wivenhoe Dam releases

Thanks Dan.

From: Dan Spiller <Daniel.Spiller@>
To: 'stephen.robertson' <stephen.robertson@>; Ken Smith;
'john.bradley' <john.bradley@>; 'Lance McCallum' <lance.mccallum@>; 'Tim Watts' <tim.watts@>; 'Geoff Stead' <geoff.stead@>; 'lauren.sims' <lauren.sims@>; 'Martin.PeterJ' <Martin.PeterJ@>; 'Dunn.KerryG' <Dunn.KerryG@>
Cc: Barry Dennien <Barry.Dennien@>; 'pborrows' <pborrows@>; 'Rob Drury' <rdrury@>; SEQWGM Media <media@>; SEQWGM Emergency <SEQWGM.Emergency@>; 'bob.reilly' <bob.reilly@>; 'Damien Brown' <damien.brown@>; 'Madgwick.DarrenT' <Madgwick.DarrenT@>
Sent: Tue Jan 11 23:42:31 2011
Subject: Updated Wivenhoe Dam releases

All,

Updated report attached.

At 2300, Wivenhoe Dam was at 74.92m AHD (190.4%) and holding.

The Flood Operations Centre has commenced a closure sequence. At 2330, releases will be reduced to 6,100 cubic metres per second.

The centre will continue to monitor rainfall and inflows and adjust as necessary.

With releases having peaked, the next report will be provided at 0500.

Regards,
Dan

From: Rob Drury
Sent: Tuesday, January 11, 2011 11:21 PM
To: Rob Drury; Dan Spiller; Paul Bird; Stan Stevenson; Peter Borrows; Peter.Allen@
Cc: David Roberts; Duty Seq
Subject: RE: Technical Report

Attached report W46.

Next report will be 5am Wednesday 12.1.2011.

Rob

Robert Drury
Dam Operations Manager

Water Delivery
Queensland Bulk Water Supply Authority trading as Seqwater



Swimming in weirs and
flowing water is FA

rethink



Wivenhoe Dam, Brisbane Valley Highway, via Fernvale Q4306 Australia
PO Box 37, Fernvale QLD 4306
Website | www.seqwater.com.au

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