

**Statement and exhibits of Terry Wall dated  
2 February 2012**

QUEENSLAND FLOODS  
COMMISSION OF INQUIRY

**STATEMENT OF TERRY WILLIAM WALL**

I, **TERRY WILLIAM WALL**, of c/- 400 George Street Brisbane in the State of Queensland, Associate Director-General, Department of Environment and Resource Management (DERM), state on oath:

**Requirement from Queensland Floods Commission of Inquiry**

1. I have seen a copy of a letter dated 31 January 2012 from the Commissioner, Queensland Floods Commission of Inquiry ("Commission") to me requiring a written statement under oath or affirmation, which is attachment **TWW-09** and which details the topics my statement should cover.

**Item 1: his understanding, in the period between 7 January 2011 to 12 January 2011, of which flood operations strategies, referred to in the 'Manual of Operational Procedures for Flood Mitigation at Wivenhoe Dam and Somerset Dam', were used in the operation of Wivenhoe Dam between 7 January 2011 and 12 January 2011 and the times at which each strategy was in use.**

2. On Monday, 10 January 2011, I returned to the Department of Environment and Resource Management ("DERM") from a period of two weeks leave. On my return to DERM, I assumed the role of Acting Director-General. Prior to my return to DERM and from 24 December 2010 inclusive, Ms Debbie Best had been the Acting Director-General while Mr John Bradley, Director-General was on leave.
3. I was scheduled to act in that role until Monday, 17 January 2011 when Mr Bradley was due to return from leave. However, given the flood events that were occurring at the time, Mr Bradley returned to his role as Director-General of DERM at or about midday on 11 January 2011. I immediately returned to my substantive role as Associate Director-General, Operations and Environmental Regulator of DERM.
4. My understanding, during the period between 7 to 12 January 2011, of which flood operations strategies, referred to in the flood mitigation manual, were used in the operation of Wivenhoe Dam for that period and the times at which each strategy was in use, was limited to the information in documents I received during the short time I was the Acting Director-General. Those documents are provided as attachments **TWW-10** to **TWW-16** and are outlined below.
5. Only one document titled "Technical Situation Report W39" (attached in an email of 11 January 2011 at 1.18 pm provided as **TWW-10**) makes any express reference to a specific strategy. That document advises of the potential need for releases increases in accordance with strategy "W4". At the time of receiving this

email I was not familiar with the flood operation strategies referred to in flood mitigation manual for Wivenhoe and Somerset dams.

6. As Acting Director-General, I was required to attend a meeting of the State Disaster Management Group (SDMG) on the morning of Tuesday, 11 January 2011. I received a number of emails (provided as attachments TWW-11 to TWW-16) between 6.22 am and 7.34 am on that morning to update me on the latest situation regarding operations at Wivenhoe dam in preparation for the meeting. None of those emails expressly refer to flood operation strategies "W1", "W2", "W3" or "W4" contained in the flood mitigation manual.
7. At the SDMG meeting of that morning, I recall Mr Barry Dennien, Chief Executive Officer, SEQ Water Grid Manager, provided a detailed briefing on releases from Wivenhoe Dam to the SDMG.

**Item 2: how, if at all, that understanding changed since 12 January 2011 and the reason for the change in understanding.**

8. I subsequently gained a greater understanding of the flood operation strategies referred to in the flood mitigation manual that were used in the operation of Wivenhoe Dam between 7 January 2011 and 12 January 2011 and the times at which each strategy was in use through the publication of the *Queensland Floods Commission of Inquiry – Interim Report* of 1 August 2011. My understanding, derived from the Interim Report, is that the flood operations strategies changed from W1 to W3 at 8 am on Saturday, 8 January 2011 and to W4 at 8 am on Tuesday, 11 January 2011.

**Item 3: whether he is aware of any accounts of the choice and timing of the dam operations strategies employed to manage the flood event that differ from his understanding of the events and if he is, a description of those different accounts and the source of the accounts.**

9. On 23 January 2012, I became aware of an article in *The Australian* newspaper and subsequent media reports of claims that the above account may be incorrect.
10. My knowledge of any accounts of the choice and timing of the dam operations strategies employed to manage the flood event that differ from my understanding of the events, is limited to the claims made in *The Australian* newspaper and other subsequent media reports.

**Item 4: when he first became aware of the accounts, if any, referred to in paragraph 3 above.**

11. I first became aware on 23 January 2012 of accounts of the choice and timing of the dam operation strategies that differ from my understanding by reading the articles in *The Australian* newspaper of that same day.

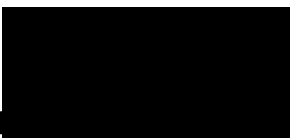
**Item 5: all discussions, correspondence, meetings or briefings he participated in, in relation to the choice and timing of dam operations strategies used in the operation of Wivenhoe Dam between 7 January 2011 and 12 January 2011 and in respect of these identifying any that related to the different accounts, if any, referred to in paragraph 3.**

12. I did not participate in any discussions, correspondence, meetings or briefings specifically in relation to the choice and timing of dam operations strategies used in the operation of Wivenhoe Dam between 7 January 2011 and 12 January 2011. My knowledge of releases from Wivenhoe dam is limited to the correspondence attached to this statement and as outlined in my answer to Item 1 above.


**Item 6: any decision made, or action taken, by him in relation to the different accounts, if any, referred to paragraph 3 above.**

13. I took no decision or action on becoming aware of the claims made in *The Australian* newspaper on 23 January 2012. I note that the Commission indicated on 24 January 2012 its intention to re-examine these matters.

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

Signed  .....  
Terry William Wall

Taken and declared before me, at Brisbane this 2<sup>nd</sup> day of February 2012

 .....  
Solicitor/Barrister/Justice of the  
Peace/Commissioner for Declarations

Our ref: Doc 1837670

31 January 2012

Mr Terry Wall  
Associate Director-General  
Department of Environment and Resource Management  
GPO Box 2454  
Brisbane Qld 4001

#### REQUIREMENT TO PROVIDE STATEMENT TO COMMISSION OF INQUIRY

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

1. his understanding, in the period between 7 January 2011 to 12 January 2011, of which flood operations strategies, referred to in the 'Manual of Operational Procedures for Flood Mitigation at Wivenhoe Dam and Somerset Dam', were used in the operation of Wivenhoe Dam between 7 January 2011 and 12 January 2011 and the times at which each strategy was in use
2. how, if at all, that understanding changed since 12 January 2011 and the reason for the change in understanding
3. whether he is aware of any accounts of the choice and timing of the dam operations strategies employed to manage the flood event that differ from his understanding of the events and if he is, a description of those different accounts and the source of the accounts
4. when he first became aware of the accounts, if any, referred to in paragraph 3 above
5. all discussions, correspondence, meetings or briefings he participated in, in relation to the choice and timing of dam operations strategies used in the operation of Wivenhoe Dam between 7 January 2011 and 12 January 2011 and in respect of these identifying any that related to the different accounts, if any, referred to in paragraph 3
6. any decision made, or action taken, by him in relation to the different accounts, if any, referred to paragraph 3 above.

In addressing these matters, Mr Terry Wall is to:

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

All documents relating to the matters set out in the Statement should be included as attachments to the statement.

The statement is to be provided to the Queensland Floods Commission of Inquiry by 9am Thursday, 2 February 2012.

The statement can be provided by post, email or by arranging delivery to the Commission by emailing [info@floodcommission.qld.gov.au](mailto:info@floodcommission.qld.gov.au).



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Commissioner  
Justice C E Holmes

**Hartwell Deborah**

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**From:** spiller daniel @ SEQWGM  
**Sent:** Tuesday, 11 January 2011 1:18 PM  
**To:** Madgwick.DarrenT [redacted]; stephen.robertson [redacted]; Ken Smith [redacted]; Lance McCallum [redacted]; Tim Watts [redacted]; lauren.sim [redacted]; Martin.Peter.J [redacted]; Dunn.KerryG [redacted]; Best Debbie; Wall Terry; Geoff Stead [redacted]  
**Cc:** Dennien Barry @ SEQWGM; Peter Borrows; Rob Drury [redacted]; Stan Stevenson; Madgwick.DarrenT [redacted]  
**Subject:** Wivenhoe Dam release update  
**Attachments:** image001.png; Technical Situation Report W39 (2).docx



image001.png Technical  
g tion Report W

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

<b>TSR Number</b>	<b>W39</b>	<b>Date of TSR release</b>	11.1.2011	<b>Time of TSR release</b>	12.00pm
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### Seqwater status of inflows and dam operations

*Current status but could change based on inflows or rainfall.*

<b>Current objectives</b>	<ul style="list-style-type: none"> <li>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</li> </ul>										
<b>Strategy</b>	<ul style="list-style-type: none"> <li>Maintain current release of 3970cumecs as long as possible but it may need to be increased</li> <li>Close sluices at Somerset Dam to store more water however will affect upstream areas.</li> <li>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.</li> <li>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)</li> </ul>										
<b>Key considerations</b>	<table style="width: 100%; border-collapse: collapse;"> <tr> <td style="border-bottom: 1px dotted black;">Storage levels:</td> <td style="border-bottom: 1px dotted black;">Above FSL</td> </tr> <tr> <td style="border-bottom: 1px dotted black;">Inflows:</td> <td style="border-bottom: 1px dotted black;">Inflows expected around 1,500,000ML which is close to 1974 event.</td> </tr> <tr> <td style="border-bottom: 1px dotted black;">Rainfall:</td> <td style="border-bottom: 1px dotted black;">Continuing</td> </tr> <tr> <td style="border-bottom: 1px dotted black;">Lockyer/Bremer:</td> <td style="border-bottom: 1px dotted black;">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 m<sup>3</sup>/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 3,970cumecs/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

### 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	flood.qld [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	[REDACTED]

### 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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## Hartwell Deborah

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**From:** Wall Terry  
**Sent:** Tuesday, 11 January 2011 6:28 AM  
**To:** 'angelawall' [REDACTED]  
**Subject:** Fw: Se Grid situation

----- Original Message -----

**From:** Best Debbie  
**To:** Wall Terry  
**Sent:** Tue Jan 11 06:22:54 2011  
**Subject:** Se Grid situation

Terry

I have rung Dan and asked for urgent update in view of overnight situation. They need to assess implications fast. I will keep you and Minister updated as we get the info.  
Debbie

**Hartwell Deborah**

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**From:** Wall Terry  
**Sent:** Tuesday, 11 January 2011 6:38 AM  
**To:** 'angelawa [REDACTED]'  
**Subject:** Fw: Fwd: Impact of Lockyer flows

**Attachments:** Seqwater\_No-Lifeguards-Here\_email\_strap.png; ATT00001.htm; cidimage001.png@01CA24E1.BDB90020; ATT00002.htm



Seqwater\_No ATT00001.ht cidimage001. ATT00002.ht  
guards-Here\_ m 01CA24E1.BD m

----- Original Message -----

**From:** Best Debbie  
**To:** Wall Terry  
**Sent:** Tue Jan 11 06:34:39 2011  
**Subject:** Fw: Fwd: Impact of Lockyer flows

Latest info. Basically they are holding back water in somerset to let the lockyer peaks through.

----- Original Message -----

**From:** Dan Spiller [REDACTED]  
**To:** Best Debbie  
**Cc:** Martin.PeterJ [REDACTED]; Dennien Barry @ SEQWGM;  
Dunn.Kerry [REDACTED]; Tim Watts [REDACTED]  
**Sent:** Tue Jan 11 06:29:28 2011  
**Subject:** Fwd: Impact of Lockyer flows

Debbie,

Preliminary advice below. Report being prepared and BoM remodeling.

Dan

Begin forwarded message:

**From:** Rob Drury [REDACTED]  
**Date:** 11 January 2011 6:17:48 AM GMT+10:00  
**To:** Dan Spiller [REDACTED]  
**Cc:** Barry Dennie [REDACTED], Peter Borrows [REDACTED], Paul Bird [REDACTED], Michael Lyons [REDACTED]  
**Subject:** RE: Impact of Lockyer flows

Dan,

I will send a report shortly but below are words I was going to send. I have also attached the BoM warning for the Lockyer that they sent this morning.

They are reissuing their warning this morning based on new information.

Basically the FOC was going to try to slow our releases last night to give a small window for the Lockyer flood to go through however we again received and are still receiving heavy rain in the catchments.

Currently the FOC has shut some sluices at Somerset to store more water to keep Wivenhoe below RL74 at which we need to start increasing releases. The first fuse plug goes at about RL 75.7m

The strategy is now to keep releases as is to not worsen the situation downstream as the Lockyer recorded levels higher than any on record. However we may still need to increase releases depending on what happens through the day.

The FOC have given our release strategy (not really different in releases at this stage) to the BoM and they will reissue their flood warnings based on that and other flows in the Lockyer and Bremer.

The FOC have spoken to BCC and ICC and we will send them an update. BCC are having a LDMG meeting this morning. Dan, not sure if anyone from the WGM is going but Chris Lavin is the contact.

Rob

-----  
From: Aifs Operational Manager [REDACTED]

Sent: Tuesday, January 11, 2011 4:06:54 AM

To: weather

Subject: BOM: FLDWARN for Lower Brisbane and Bremer Rs [SEC=UNCLASSIFIED] Auto forwarded by a Rule

TO::BOM615

IDQ20805

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  
 on mobile, public and satellite phones.

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

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 provider.

Robert Drury

Dam Operations Manager

Water Delivery

Queensland Bulk Water Supply Authority trading as Seqwater



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## Hartwell Deborah

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**From:** Petula Martinz [REDACTED]  
**Sent:** Tuesday, 11 January 2011 6:44 PM  
**To:** Dennien Barry @ SEQWGM; Reilly Bob; Brown Damien; Darren Madgwick; Geoff Stead; Ken Smith; Kerry Dunn; Lance McCallum; Lauren Sims; Peter Borrows; Peter Martin; Rob Drury; SEQWGM Emergency; Stephen Robertson; Wall Terry; Tim Watts ; Media @ SEQWGM; Bradley John  
**Subject:** Updated technical support report  
**Attachments:** Technical Situation Report W41.docx

All,

Updated report attached.

Regards,  
Dan

### **Petula Martinz**

Executive Assistant to 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

<b>TSR Number</b>	<b>W41</b>	<b>Date of TSR release</b>	11.1.2011	<b>Time of TSR release</b>	6pm
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### Seqwater status of inflows and dam operations

*Current status but could change based on inflows or rainfall.*

<b>Current objectives</b>	<ul style="list-style-type: none"> <li>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</li> </ul>										
<b>Strategy</b>	<ul style="list-style-type: none"> <li>Peak inflows into Wivenhoe in excess of 12000 cumecs.</li> <li>Increase releases to maintain fuse plug and dam integrity.</li> <li>Close sluices at Somerset Dam to store more water however will affect upstream areas.</li> </ul>										
<b>Key considerations</b>	<table style="width: 100%; border-collapse: collapse;"> <tr> <td style="border-bottom: 1px dotted black;">Storage levels:</td> <td style="border-bottom: 1px dotted black;">Above FSL</td> </tr> <tr> <td style="border-bottom: 1px dotted black;">Inflows:</td> <td style="border-bottom: 1px dotted black;">Inflows expected well over 1,500,000ML.</td> </tr> <tr> <td style="border-bottom: 1px dotted black;">Rainfall:</td> <td style="border-bottom: 1px dotted black;">Continuing</td> </tr> <tr> <td style="border-bottom: 1px dotted black;">Lockyer/Bremer:</td> <td style="border-bottom: 1px dotted black;">Monitoring their inflows</td> </tr> <tr> <td style="border-bottom: 1px dotted black;">Brisbane River:</td> <td style="border-bottom: 1px dotted black;">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.
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### 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 2,000m<sup>3</sup>/s in outflow from the dam in addition to the gate release which could be as high as 10,000m<sup>3</sup>/s at the time.

Sluices have been closed at Somerset and this will result in high upstream water levels affecting Kilcoy. Somerset is at 104.41m holding 671,000ML and 176.6%.

In the last twelve hours totals of up to 370mm have fallen in the area around Wivenhoe Dam. In the last hour, rainfalls between 15 and 30mm have been recorded in the same area. At 1600, the BoM advised that falls between 50 to 100mm are still forecast for the 24hrs to 1600 Wednesday 12 January 2011 for the North Pine and Somerset/Wivenhoe catchments. Current inflows are about 9,000cumecs.

At 1730 Wivenhoe Dam was 74.92m AHD holding 2,200,000ML and 190% and rising slowly and releasing about 6,700m<sup>3</sup>/s.

The current expectation is that the dam will reach a steady state (outflow equals inflow) within the next 3 hours without further significant rainfall. At this time, release from the dam will be about 8,000 m<sup>3</sup>/s.

If there is no further rainfall, it may be possible to then slowly reduce this release overnight.

The dam is expected to peak below 75.5m AHD which is 100mmm below the first fuse plug initiation level.

Note that the automatic recorder as indicated on the BoM website is affected by drawdown and is not reflecting the actual lake level and tendency.

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 9,500m<sup>3</sup>/s

**North Pine Dam:**

Five gates are open, and will continue until at least 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 86cumecs or 7396 megalitres a day is being made through the emergency gates and this will increase to around 8,000 megalitres per day by 6.pm Tuesday 11 January. There is no public access to the spillway.

**Wyaralong Dam**

As at 5:00pm today 9,680ML/day was passing over the spillway at Wyaralong Dam. This represents a water depth of 0.59m over the spillway. The water level is continuing to rise. Wyaralong Dam Alliance will continue to monitor and advise of water levels and flows.

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	flood.qld [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	[REDACTED]

### 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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**Hartwell Deborah**

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**From:** Wall Terry  
**Sent:** Tuesday, 11 January 2011 6:57 AM  
**To:** Best Debbie  
**Subject:** RE: Getting technical report

Thanks

Does that equate to the 170,000ml per day in the media> Any advice on when they will go to 4000 mentioned in brief yesterday?

-----Original Message-----

**From:** Best Debbie  
**Sent:** Tuesday, 11 January 2011 6:55 AM  
**To:** Wall Terry  
**Subject:** Getting technical report

Dan is sending more info. It was as I said at 74 those valves start going and they lose control of the releases. They r currently releasing 2,750 cm/sec

## Hartwell Deborah

---

**From:** spiller daniel @ SEQWGM  
**Sent:** Tuesday, 11 January 2011 7:35 AM  
**To:** Best Debbie; Wall Terry  
**Subject:** Re: Getting technical report

Terry,

We are doing about 240,000 ML/day from the dam (2,750 cumecs). The remaining 1,250 cumecs is an allowance for other flows. Lockyer flows may exceed this allowance, but BoM is revising it's advice.

I am on [REDACTED] if you need more.

Dan

On 11/01/2011, at 7:21 AM, "Best Debbie" [REDACTED] wrote:

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> ----- Original Message -----  
> From: Wall Terry  
> To: Best Debbie  
> Sent: Tue Jan 11 06:57:08 2011  
> Subject: RE: Getting technical report  
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> Think B4U Print  
> 1 ream of paper = 6% of a tree and 5.4kg CO2 in the atmosphere  
> 3 sheets of A4 paper = 1 litre of water  
> +-----+  
>

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**Hartwell Deborah**

---

**From:** Wall Terry  
**Sent:** Tuesday, 11 January 2011 7:49 AM  
**To:** spiller daniel @ SEQWGM  
**Subject:** Re: Getting technical report

Thanks Dan

----- Original Message -----

**From:** Dan Spiller [REDACTED]  
**To:** Best Debbie; Wall Terry  
**Sent:** Tue Jan 11 07:34:40 2011  
**Subject:** Re: Getting technical report

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