

[REDACTED]

From: Barry Dennien [REDACTED]
Sent: Monday, 7 February 2011 9:04 AM
To: Bradley John
Subject: BOM warning - note not much here for Lockyer

TOP PRIORITY FOR IMMEDIATE BROADCAST

SEVERE THUNDERSTORM WARNING - SOUTHEAST QUEENSLAND

for FLASH FLOODING

**For people in parts of the
TOOWOOMBA Council Area.**

Issued at 8:39 am Monday, 7 February 2011.

Severe thunderstorms are likely to produce very heavy rainfall and flash flooding in the warning area over the next several hours.

Locations which may be affected

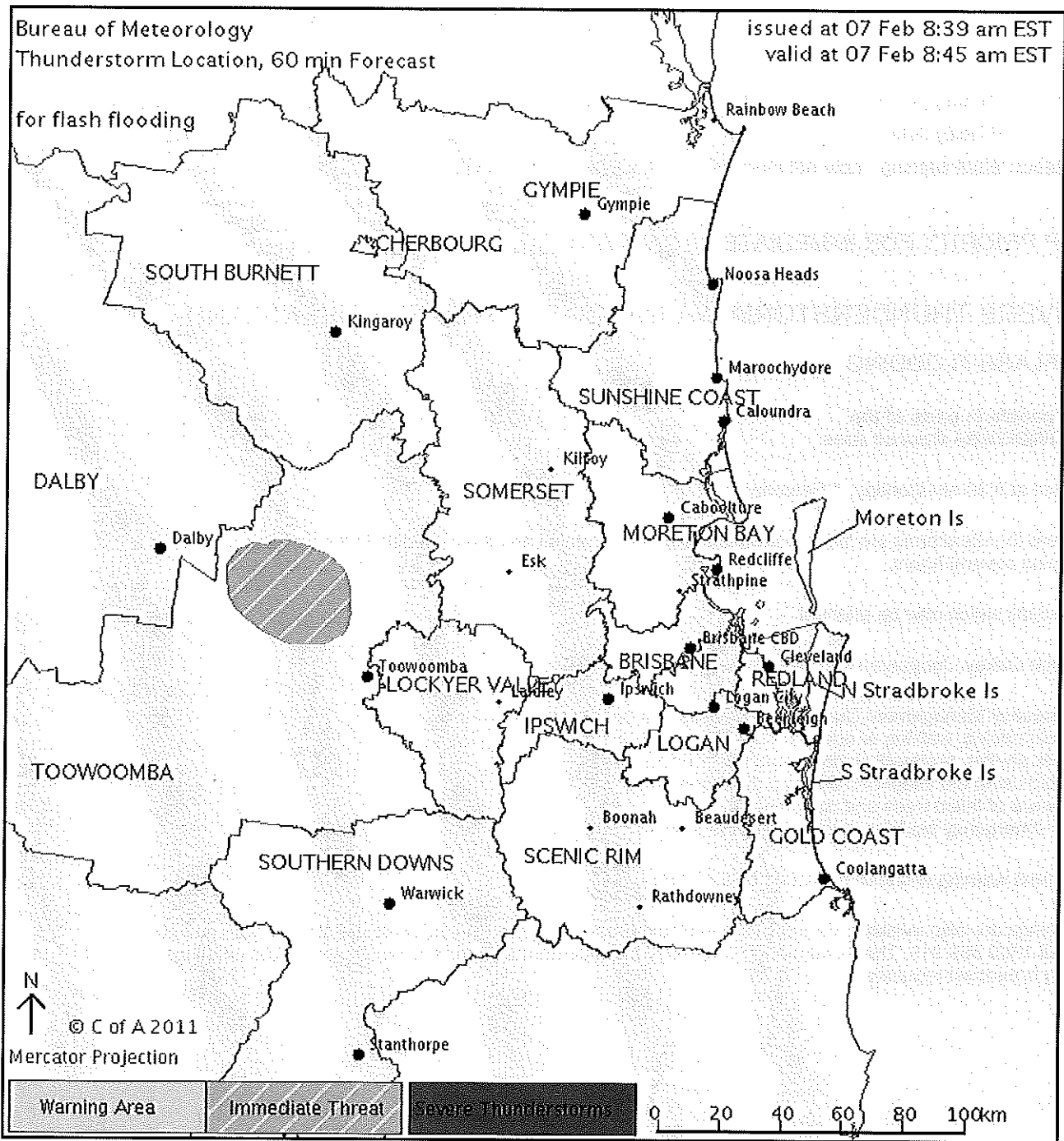
include Oakey, Jondaryan and Bowenville.

Emergency Management Queensland advises that people should:

- * Avoid driving, walking or riding through flood waters.
- * Seek shelter, preferably indoors and never under trees.
- * Avoid using the telephone during a thunderstorm.
- * Beware of fallen trees and powerlines.
- * For emergency assistance contact the SES on 132 500.

The next warning is due to be issued by 9:40 am.

Warnings are also available through TV and Radio broadcasts, the Bureau's website at www.bom.gov.au or call 1300 659 219. The Bureau and Emergency Management Queensland would appreciate warnings being broadcast regularly.



Barry Dennien
Chief Executive Officer
SEQ Water Grid Manager

Phone: (07) [REDACTED] | Fax: (07) [REDACTED] | Mobile: [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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From: Delzoppo Lindsay
Sent: Wednesday, 16 February 2011 3:56 PM
To: Joshua Cooney [REDACTED]
Cc: Wall Terry; Ellwood Dean; Bradley John
Subject: Extra Dot Points

Importance: High

Josh, urgent dot points, as discussed

- ◆ **DERM has issued a state-wide exemption certificate under the *Coastal Protection and Management Act 1995* for the replacement and rebuilding of badly damaged infrastructure in tidal waters that was previously approved.**
- ◆ **Examples of such infrastructure are ferry terminals, jetties, pontoons, rowing facilities, boat ramps, and board walks.**
- ◆ **The exemption applies to both small scale private and large scale public infrastructure.**
- ◆ **The exemption is for replacement and reinstatement on a 'like for like' basis where floods or Cyclone "Yasi" completely destroyed a structure.**
- ◆ **Repair of structures that were damaged, but largely survived, can occur under the maintenance provisions that apply to existing approved structures and require no particular approvals.**
- ◆ **The exemption will apply to hundreds of previously approved structures built in tidal waters across the state.**
- ◆ **There will be significant savings in time and cost for local governments, industry and individuals complying with the exemption certificate.**
- ◆ **This will also allow the state to focus its efforts on other aspects of the recovery rather than spending valuable time re-assessing already approved works.**
- ◆ **Provided that work is undertaken in accordance with the requirements of the exemption certificate, the replacement of a previously approved structure in tidal waters can proceed immediately.**
- ◆ **No new application will be required unless a different structure is proposed to replace the one that was destroyed.**
- ◆ **To ensure that replacement structures are safe and sound, they must be constructed in accordance with current standards and an engineer must certify that they meet the requirements set out in the exemption certificate.**
- ◆ **The exemption will facilitate the rapid rebuilding of public and private infrastructure such as the ferry terminals, rowing facilities, boat ramps and private pontoons in the Brisbane River.**
- ◆ **The assets on which the north Queensland tourism industry relies will be able to be rebuilt immediately in accordance with existing approvals.**
- ◆ **This will help this vital industry rebuild and get up and running again before the next tourism season.**
- ◆ **The existence of the exemption certificate is expected to reduce the recovery time by up to 6 months for the rebuilding and replacement of community and private assets in tidal waters.**

- ◆ Further details will be available on the DERM website at www.derm.qld.gov.au .
- ◆ This is an example of the kind of thinking that is occurring in the Queensland public service as we all find efficient and effective ways to reduce the administrative delays that might impede the state's recovery from these natural disasters.
- ◆ For example, the replacement cost of damaged ferry terminals to which this exemption would apply has been costed at &\$70M (see ref below)
- ◆ If Brisbane City Council approaches DERM with applications for replacement ferry terminal infrastructure that meet the new exemption, DERM will process each application within one working day of receiving it!

<http://news.brisbanetimes.com.au/breaking-news-national/brisbane-mayor-demands-money-from-fed-govt-20110215-1auwc.html>

Lindsay Delzoppo
General Manager, Operations
Environment and Natural Resource Regulation
Department of Environment and Resource Management

Ph:

Fax:

Mob:

e:

7th Floor, 400 George Street, Brisbane, Qld
GPO Box 2454 Brisbane, Qld, 4001

Nominations for the 2011 Premier's ClimateSmart Sustainability Awards, which recognise Queenslanders who are ClimateSmart champions achieving excellence in sustainability, are open until Friday 4 March 2011. For more information on how to enter visit www.derm.qld.gov.au/premiersawards

From: Womersley Jon
Sent: Wednesday, 16 February 2011 2:52 PM
To: Delzoppo Lindsay
Cc: Raihman Dean; Hughes Vanessa; Mitchell Fran; White Kelsey
Subject:
Importance: High

Lindsay

The following dot points for your assistance:

I trust that this material is of assistance.

Regards

Jon Womersley
Director Regulatory Support & Practice
Environment and Natural Resource Regulation
Email: [REDACTED]
Telephone: 0 [REDACTED] Facsimile: 0 [REDACTED]
Mobile: [REDACTED]

Department of Environment and Resource Management
Floor 8, 400 George Street, Brisbane, Q 4000
GPO Box 2454, Brisbane Q 4001
<http://www.derm.qld.gov.au>



[REDACTED]

From: David Shaw [REDACTED]
Sent: Thursday, 17 February 2011 10:50 AM
To: Lewis Kieran; media
Cc: Nicola Hazell; Bradley John; Joshua Cooney; Waters Kerry
Subject: FW: DERM's bacterial and fecal contamination tests for Brisbane River.

Hi Kieran et al,

Can you please add this to the mix re responses today?

Suggest some of the stuff the DG uses today will help.

ASAP today please.

Dave

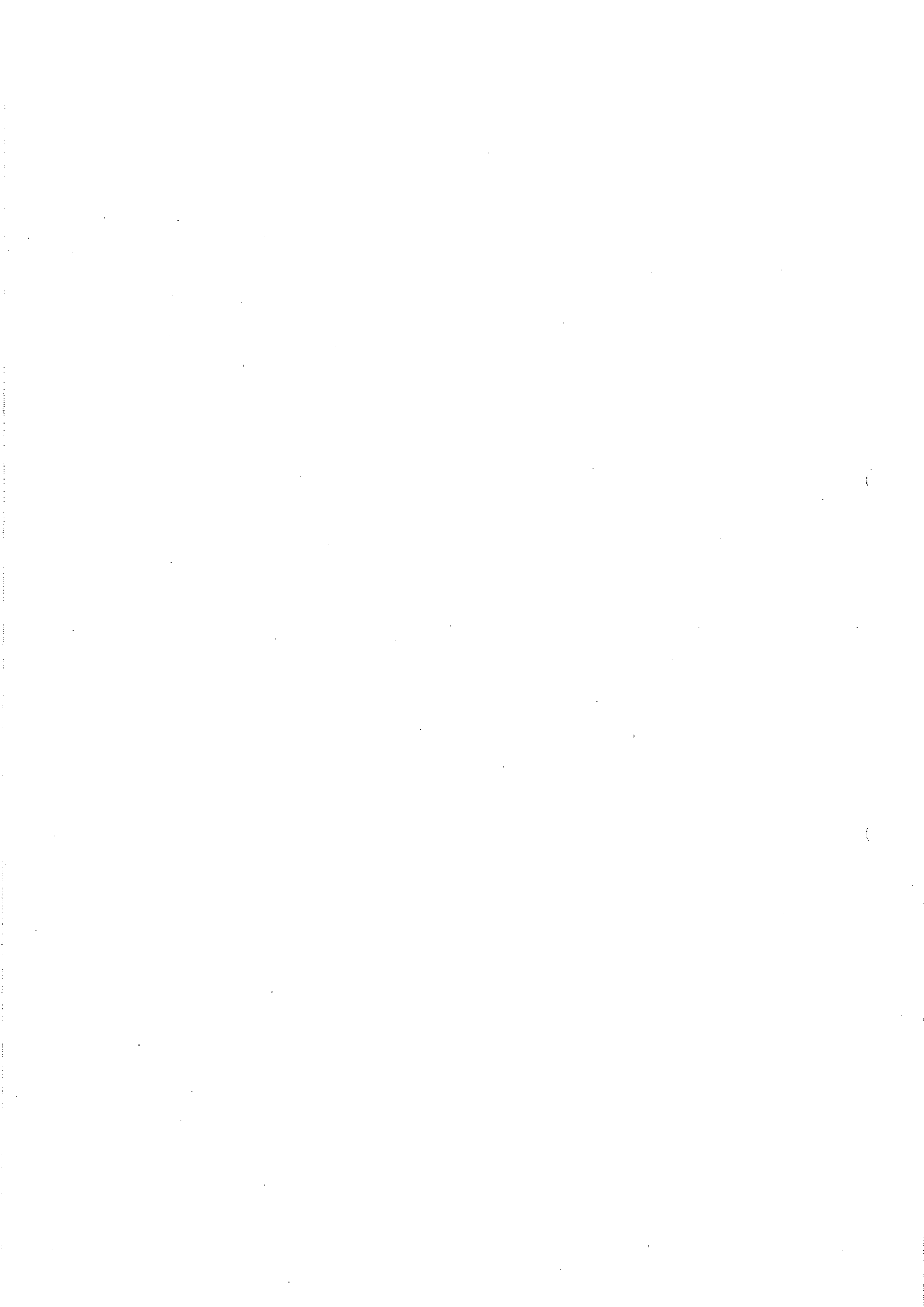
From: Tony Moore [mailto:[REDACTED]]
Sent: Thursday, 17 February 2011 10:49 AM
To: David Shaw
Subject: DERM's bacterial and fecal contamination tests for Brisbane River

Hi David.

1. When were the most recent tests done by DERM on fecal contamination in the Brisbane River?
2. What do they show?
3. Five weeks after the Brisbane flood is it still dangerous to be in the river?
4. What other contamination or bacteria does DERM test the Brisbane River for?
5. What tests have you done on those issues since the flood.
6. The Courier Mail suggests that there is high fecal contamination level BEFORE the floods. Is one of the sewerage treatment plants leaking?
7. Did DERM have any suspicions if this before this morning and what has happened in this regard?

Tony Moore
[REDACTED]

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MINISTERIAL STATEMENT
Minister for Climate Change and Sustainability, Kate Jones MP
Environmental Impacts of the Summer Cyclones and Floods
Thursday 17 February, 2011

Mr Speaker,

The natural disasters that devastated our communities over the past summer have also caused major destruction to our natural environment and native wildlife.

Many of our iconic rainforests, reefs and waterways have been affected.

We have hundreds of scientists and rangers across Queensland working to around the clock to help our environment recover.

Today I can announce that the latest test results for Moreton Bay show that the freshwater has diluted the seawater to an extent never seen before in ten years of monitoring.

Dissolved substances in the plume made it the darkest colour ever seen, and sediments have settled out onto the floor of the bay when the freshwater mixed with salt water.

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Metal samples also indicate higher than previous levels for some metals.

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This information is the result of sampling from over 300 sites. In addition, more than 110km of mangroves have been assessed for damage.

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Our environmental sampling has been focused on mapping the plume, testing for organic contaminants and metals, inspecting and testing seagrass and corals, and assessing sediments levels.

The floods have had a massive impact on the bay. Seagrass beds in some areas are showing declines in condition as the low light means they are unable to photosynthesise and produce food.

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This has the potential to have grave impacts on our dugongs and turtles that rely on the seagrass for food and habitat.

Fortunately, our monitoring continues to show that the eastern banks and southern sections of Moreton Bay have escaped largely unscathed – meaning they will continue to provide important food source for dugong and marine turtles in the area.

We will continue to keep a close watch on this to ensure these iconic species continue to thrive in our waters.

Mr Speaker, I can also announce that right now teams of our rangers are out in the water in the Great Barrier Reef, working with scientists from CSIRO, GBRMPA and other research partners, conducting reef health surveys across the area hit by Cyclone Yasi.

Around 350 sites will be inspected, to look at coral damage and marine health.

This is another example of the huge effort underway to understand the impacts on this unique marine environment.

This morning I'm advised that the first series of surveys this week has already found damage to coral reefs and, in some places, green algae covering the coral.

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While cyclone damage is a natural event, it comes on top of other human pressures on the reef from land based activities and on site uses. The damage caused by Cyclone Yasi provides yet another reminder of the importance of building resilience in our Great Barrier Reef through our broader reef protection measures.

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Mr Speaker, we are also working tirelessly to assist some of our most threatened species affected by the disasters on the land, such as the rare Cassowary population at Mission Beach.

I can report that as of today we now have a total of 21 feeding stations between Mission Beach, Tully, Cardwell, Tully Heads, ETTY Bay and Mt Mackay.

1,200 kilograms of fruit has been distributed to the feed stations and as part of aerial food drops – the result of a huge effort from rangers, volunteers who cut up the fruit, and local North Qld businesses who donated the fruit.

Helping our environment to recover from the natural disasters that have shaken our state will be a huge job but is essential for Qld's future.

Our staff and rangers will continue to work in partnership with conservation groups, university research bodies and federal agencies to monitor the impacts and ensure we have the plans in place to help our furry, scaly, leathery and feathered Queenslanders recover.

[REDACTED]

From: Dan Spiller [REDACTED]
Sent: Monday, 21 February 2011 5:52 PM
To: Best Debbie; Bradley John
Cc: Lyons Michael @ SEQWGM
Subject: Fwd: Dam releases

FYI

Begin forwarded message:

From: Mike Foster [REDACTED]
Date: 21 February 2011 5:45:56 PM GMT+10:00
To: Geoff Stead <[REDACTED]>
Cc: Michael Lyons [REDACTED], Dan Spiller [REDACTED],
[REDACTED] SEQWGM Media [REDACTED],
Paul Bird [REDACTED]
Subject: Dam releases

Geoff,

Can confirm that we will have to open the gates at North Pine tonight (7pm to 5am). Had 60mm plus across the catchment and dam this afternoon. As per our operating protocols Moreton Bay Regional Council has been notified and is moving to close Young's Crossing.

No change expected to Wivenhoe flows, however we will continue to monitor overnight.

Cheers Mike

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

From: Geoff Stead [mailto:[REDACTED]]
Sent: Monday, 21 February 2011 5:08 PM
To: Mike Foster
Subject:

Mike, Was any gate action or otherwise taken at Wivenhoe as these storms swept across - just in case some journo asks

Geoff Stead
Senior Media Advisor
Office of the Hon Stephen Robertson MP
Minister for Natural Resources, Mines and Energy and Trade
P: [REDACTED]
M: [REDACTED]
E: [REDACTED]

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-----Safe

Stamp-----

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QLD Bulk Water Supply Authority ABN75450239876 (Trading as Seqwater).

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[REDACTED]

From: Dan Spiller [REDACTED]
Sent: Tuesday, 22 February 2011 10:30 AM
To: Bradley John; Lance McCallum; [REDACTED]
Cc: [REDACTED] Best Debbie;
[REDACTED] Dennien Barry @ SEQWGM
Subject: RE: Mt Crosby Water Treatment Plant
Attachments: MIN - Mt Crosby WTP loss of SCADA.PDF

All,

Current update attached for info.

Mt Crosby is now producing 100 ML/day in manual mode (having not routinely operated in that mode for at least 20 years). Seqwater is stabilising production at this level, prior to increasing to 150 ML/day and then 200 ML/day (aiming to do this no later than tomorrow morning).

Storages are at about 250 ML, being drawn down at about 100 ML/day. Storages have not previously been below 120 ML.

We are preparing contingency plans and communications materials. We will assess the need for these following a midday teleconference.

The emergency room has been activated and is available on [REDACTED] I will brief QH officers and have invited them to our midday teleconference.

I am available on [REDACTED] if you have any other queries.

Regards,
Dan

From: Bradley John [REDACTED]
Sent: Tuesday, February 22, 2011 8:49 AM
To: Lance McCallum; [REDACTED]
Cc: [REDACTED] Dan Spiller
Subject: Mt Crosby Water Treatment Plant

Min R, Ken Mick, Jeanette

Just FYI at this stage – not yet a problem to supply.

Mt Crosby water treatment plant (both East Bank and West Bank) are both currently offline due to electrical failure in last night's storms.

- There is about 270 ML in storage in reservoirs across Central SEQ but the issue of concern will be the ability to resupply **reservoirs in the western areas, closest to Mt Crosby.**
- Southern Regional Water Pipeline is transferring max (95 ML/d) into Central SEQ zone and the North Pine treatment plant is at maximum (due to low quality inflow water) at about 100 ML/d.

There is urgent work underway by Seqwater to get Westbank back online by lunchtime, which will provide at least 100 ML/d in the first stage. Provided this all goes to plan, there should be no interruption to water supply.

Dan Spiller at SEQWGM will provide SITREPs and updates during the day, escalating if there any concerns.

1/04/2011

John Bradley
Director-General
Department of Environment and Resource Management
Telephone: 07 [REDACTED]
Email: [REDACTED]
www.derm.qld.gov.au

Department of Environment and Resource Management
400 George Street, Brisbane Q 4000
GPO Box 2454, Brisbane Q 4001

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Incident Notification: Level 4 - MIN - Mt Crosby WTP loss of SCADA

Minister agency: Minister for Natural Resources, Mines & Energy and Minister for Trade

INCIDENT DETAILS:

Event: Mt Crosby WTP Loss of SCADA Control 0830-22FEB11
Report date: 22/02/2011 09:45 AM
Lodging agency: SEQ WGM
Severity level: Level 4
Incident status: Active
Next briefing: 12:30pm

CONTACT DETAILS:

Contact: Dan Spiller
Role: WGM Emergency Manager
Phone: [REDACTED]
Mobile: [REDACTED]
Email: [REDACTED]

Reason for briefing A new Water Grid level 4 emergency has been declared per the SEQ Water Grid Emergency Management Plan.

Asset Mt Crosby WTP

Location Mt Crosby

Timing At approximately 3.15pm yesterday severe storms caused the loss of communications to the Chlorine dosing controls at Holts Hill. Chloramination operations continued at Holts Hill via manual intervention, however both WTPs were later tripped out by storm activity with Eastbank WTP returned to service shortly after.

During the second wave of storms around 8pm power supply was lost and the SCADA system completely failed. This resulted in both plants being inoperable, repair work progressed throughout the night and contractors are on site this morning. An estimated time for repairs is not known.

What we know There has been no production from either plant since 8pm last night.

Disinfection is being controlled manually at Holt's Hill. No flows or reservoir levels are available to Seqwater or Linkwater so levels are being manual checked each hour.

Work is now underway to operate Eastbank in complete manual mode of operation. This mode of operation has not been undertaken previously and requires a significant team approach to accomplish.

LinkWater have been advised of the loss of production.

What we are doing The following actions have been taken or are planned to be undertaken to mitigate further risks:

- Contractors have been engaged to complete SCADA repairs
- Alternate water supplies have been sourced from the SRWP
- Operating Eastbank WTP on full manual control, 100 ML a day being produced
- Once manual operation stabilised, will increase production in manual mode if possible
- Communications messaging currently being drafted to encourage efficient water use



**SEQ Water Grid Emergency Management
R01 Minister's Notification**

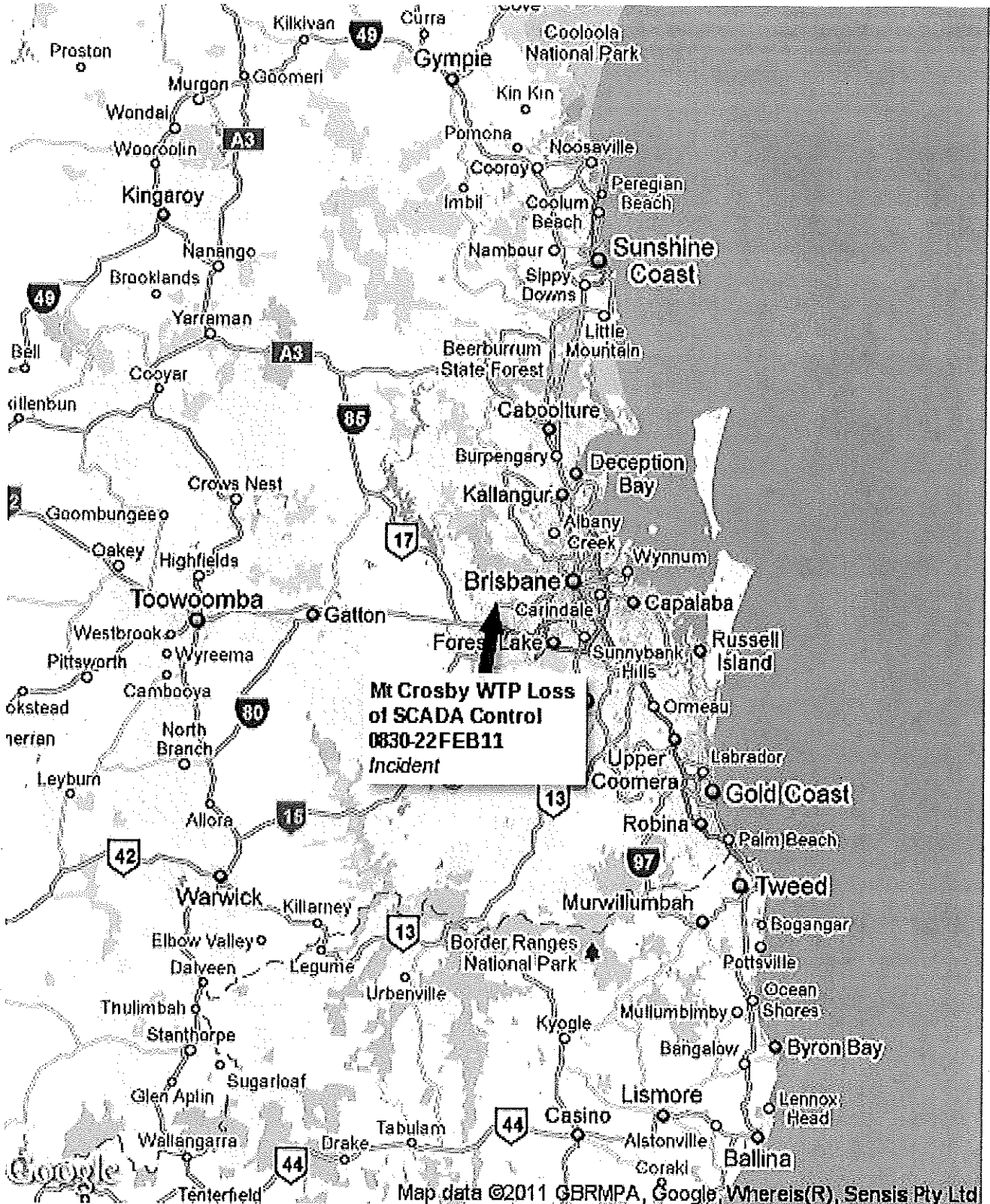
should it be required

- Contingency planning underway with QUU including large water use identification.

Action required

Endorse communications messages in anticipation of them being required.

Incident Map:



From: Ken Smith [REDACTED]
Sent: Tuesday, 22 February 2011 11:14 AM
To: spiller daniel @ SEQWGM; Bradley John
Cc: [REDACTED]
Subject: Re: Mt Crosby Water Treatment Plant
Thanks Dan

From: Dan Spiller [REDACTED]
To: Ken Smith; John Bradley [REDACTED]
Cc: Nicole Scurrah [REDACTED]
Sent: Tue Feb 22 11:11:34 2011
Subject: RE: Mt Crosby Water Treatment Plant

Ken,

Demand in central SEQ is about 400 ML/day.

Supply into central SEQ is about 300 ML/day, including the 100 ML/day that is now being produced from Mt Crosby (the remainder is coming from the Gold Coast and North Pine).

The supply gap is therefore 100 ML/day.

We are aiming to increase Mt Crosby production from 100 ML/day to 200 ML/day to fill this gap. The critical factor is how long it takes to get to that level, given that they are operating in manual mode.

I hope that clarifies. Please call me on [REDACTED] if I can be of any further assistance.

Regards,
Dan

From: Ken Smith [REDACTED]
Sent: Tuesday, February 22, 2011 10:59 AM
To: Dan Spiller; John Bradley [REDACTED]
Cc: Nicole Scurrah
Subject: RE: Mt Crosby Water Treatment Plant

Thanks Dan. With production of 100 ML/day back on line, what will the impact be on supply. John's note below suggests that with 100 ML, supply should be protected

Regards

Ken Smith
Director-General
Department of the Premier and Cabinet
Phone: [REDACTED] Fax: [REDACTED]
Mobile: [REDACTED]
Email: [REDACTED]

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www.towardQ2.qld.gov.au

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From: Dan Spiller [REDACTED]
Sent: Tuesday, 22 February 2011 10:30 AM
To: 'Bradley John'; Lance McCallum; [REDACTED] Ken Smith;
Cc: [REDACTED]; Jeannette Young (Queensland Health); 'Best Debbie'; [REDACTED] Barry Dennien
Subject: RE: Mt Crosby Water Treatment Plant

All,

Current update attached for info.

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I am available on [REDACTED] if you have any other queries.

Regards,
Dan

From: Bradley John [mailto: [REDACTED]]
Sent: Tuesday, February 22, 2011 8:49 AM
To: Lance McCallum; [REDACTED]
Cc: [REDACTED] Dan Spiller
Subject: Mt Crosby Water Treatment Plant

Min R, Ken Mick, Jeanette

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John Bradley
Director-General
Department of Environment and Resource Management
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[REDACTED]

From: Dan Spiller [REDACTED]
Sent: Tuesday, 22 February 2011 11:47 AM
To: Bradley John; [REDACTED]
Cc: 'Rob Drury'; 'Mike Foster'; Best Debbie; Reilly Bob; [REDACTED]
Dennien Barry @ SEQWGM; Lyons Michael @ SEQWGM; [REDACTED]
Subject: Technical Situation Report
Follow Up Flag: Follow up
Flag Status: Completed
Attachments: Technical_Situation_Report_W72.docx

All,

Seqwater has provided the attached Technical Situation Report.

Planned releases were reduced slightly last night to allow for the storm activity. This will increase the release time, with the extent of the increase not yet known.

Regards,
Dan

Daniel Spiller
Director, Operations
SEQ Water Grid Manager
Phone: (07) [REDACTED] Fax: (07) [REDACTED] | Mobile: [REDACTED]
Email: [REDACTED]
Visit: Level 15, 53 Albert Street Brisbane
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TECHNICAL SITUATION REPORT

TSR Number	W72	Date of TSR release	22.2.11	Time of TSR release	10.30am
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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"> Reduce level in Wivenhoe dam to 75%
Strategy	<ul style="list-style-type: none"> Initiate low level releases at around 350 to 400cumecs. This will inundate Twin Bridges, Savages and Colleges Crossings. Maintain access to Burtons bridge
Key considerations	Storage levels:
	Inflows:
	Rainfall:
	Lockyer/Bremer:
	Brisbane River:

Wivenhoe Dam

Releases commenced Sunday morning 20.2.11 at 6am.

Releases were increased slightly to 380cumecs as planned however due to the rain in the Lockyer last night, they were reduced to 325cumecs late last night.

Currently they are still 325cumecs while we monitor the Lockyer, it may be necessary to reduce another 50cumecs depending on the flows. Once the Lockyer flow has passed, releases will be increased back to around 380cumecs. This will increase the release period slightly.

Level this morning was 96.7%.

There are also flows occurring in the upper Brisbane and Stanley Rivers (which will need to be released into Wivenhoe). This will further increase the release period however an estimate is not available yet until there is a better indication of what impacts the rain will have on 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 were 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)

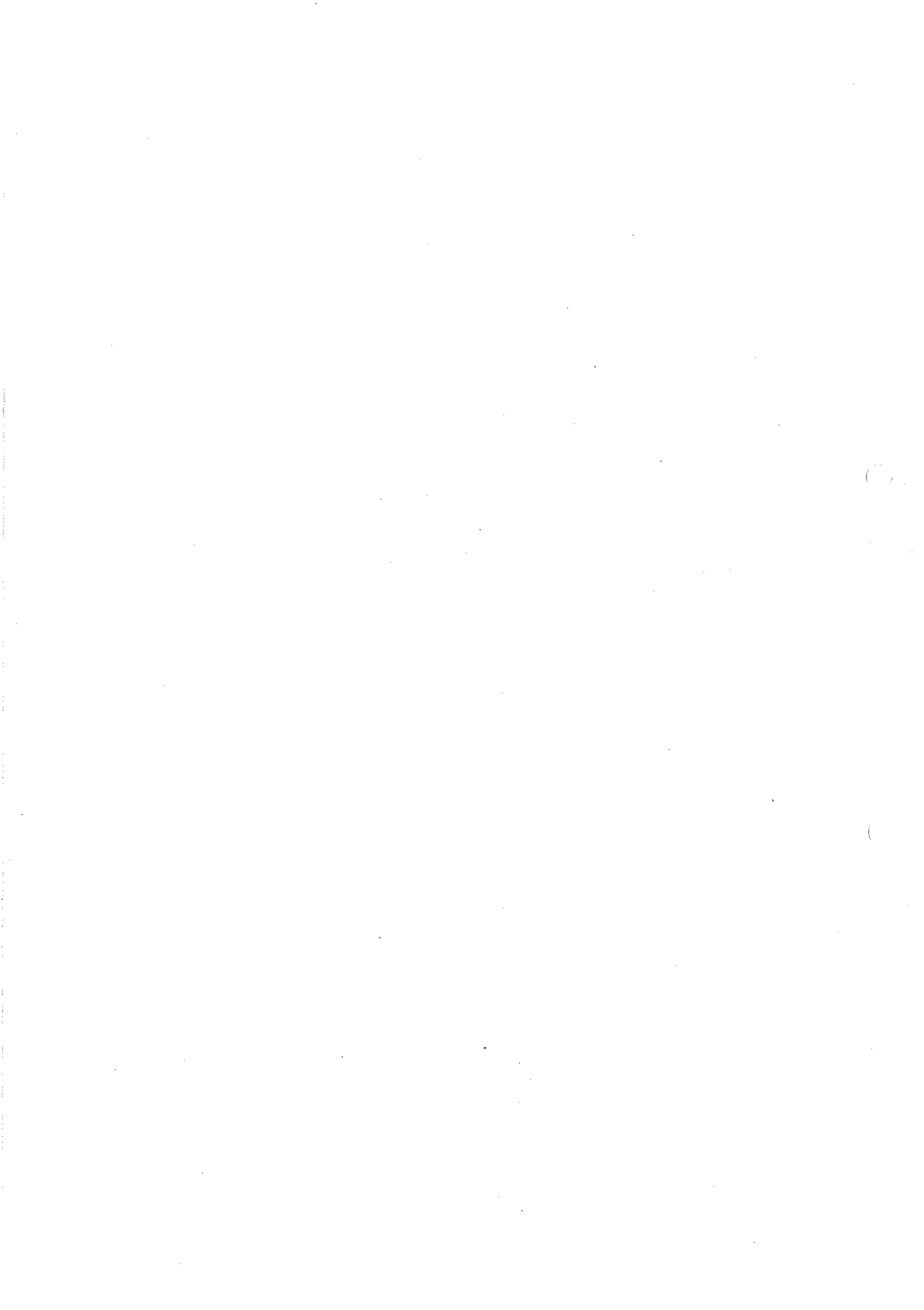
Council has been advised of the current strategy.

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		Time		or Event	Change
---------------------	-------------	--	-------------	--	-----------------	---------------



[REDACTED]

From: Dan Spiller [REDACTED]
Sent: Tuesday, 22 February 2011 3:39 PM
To: Bradley John; 'Lance McCallum'; [REDACTED]
Cc: [REDACTED] Best Debbie;
[REDACTED] Dennien Barry @ SEQWGM
Subject: RE: Mt Crosby Water Treatment Plant

All,

We are now holding reservoir levels. We expect levels to reduce during the evening peak, before increasing overnight. We are bringing on additional supplies in order to return to typical operating levels over coming days.

While levels are holding, we are exposed to in the event of asset failure.

On this basis, we are issuing a media release highlighting that:

- plants were damaged by the storm
- supply is being maintained through the Grid, including desalination
- we may ask people to conserve water if there is an asset failure over coming days.

I will provide an update tomorrow morning.

Regards,
Dan

From: Dan Spiller
Sent: Tuesday, February 22, 2011 1:39 PM
To: 'Bradley John'; 'Lance McCallum'; [REDACTED]
Cc: [REDACTED] 'Best Debbie';
[REDACTED] Barry Dennien
Subject: RE: Mt Crosby Water Treatment Plant

All,

Mt Crosby is now producing 150 ML/day, leaving a supply gap of only 50 ML/day (and potentially less if demand is low).

While supply is improving, reservoir levels are low. This leaves us exposed should there be an asset failure, including if Mt Crosby was unable to maintain production. In particular, there are risks associated with continuing to operate Mt Crosby in manual mode - with the problem with the SCADA system not yet diagnosed and no ETA for its rectification.

We will make a recommendation on the need for conservation messages by 3pm.

Regards,
Dan

From: Dan Spiller
Sent: Tuesday, February 22, 2011 10:30 AM
To: 'Bradley John'; Lance McCallum; [REDACTED]

1/04/2011

[REDACTED]
Cc: [REDACTED] 'Best Debbie';
[REDACTED] Barry Dennien
Subject: RE: Mt Crosby Water Treatment Plant

All,

Current update attached for info.

Mt Crosby is now producing 100 ML/day in manual mode (having not routinely operated in that mode for at least 20 years). Seqwater is stabilising production at this level, prior to increasing to 150 ML/day and then 200 ML/day (aiming to do this no later than tomorrow morning).

Storages are at about 250 ML, being drawn down at about 100 ML/day. Storages have not previously been below 120 ML.

We are preparing contingency plans and communications materials. We will assess the need for these following a midday teleconference.

The emergency room has been activated and is available on [REDACTED] I will brief QH officers and have invited them to our midday teleconference.

I am available on [REDACTED] if you have any other queries.

Regards,
Dan

From: Bradley John [mailto:[REDACTED]]
Sent: Tuesday, February 22, 2011 8:49 AM
To: Lance McCallum; [REDACTED]
[REDACTED]
Cc: [REDACTED] Dan Spiller
Subject: Mt Crosby Water Treatment Plant

Min R, Ken Mick, Jeanette

Just FYI at this stage – not yet a problem to supply.

Mt Crosby water treatment plant (both East Bank and West Bank) are both currently offline due to electrical failure in last night's storms.

- There is about 270 ML in storage in reservoirs across Central SEQ but the issue of concern will be the ability to resupply **reservoirs in the western areas, closest to Mt Crosby.**
- Southern Regional Water Pipeline is transferring max (95 ML/d) into Central SEQ zone and the North Pine treatment plant is at maximum (due to low quality inflow water) at about 100 ML/d.

There is urgent work underway by Seqwater to get Westbank back online by lunchtime, which will provide at least 100 ML/d in the first stage. Provided this all goes to plan, there should be no interruption to water supply.

Dan Spiller at SEQWGM will provide SITREPs and updates during the day, escalating if there any concerns.

John Bradley
Director-General
Department of Environment and Resource Management
Telephone: 0 [REDACTED]
Email: [REDACTED]

www.derm.qld.gov.au

Department of Environment and Resource Management
400 George Street, Brisbane Q 4000
GPO Box 2454, Brisbane Q 4001

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[REDACTED]

From: Dan Spiller [REDACTED]
Sent: Wednesday, 23 February 2011 6:31 AM
To: Bradley John
Subject: Fwd: Siterep Level 4 Incident: Mt Crosby WTP Loss of SCADA Control - 22 Feb 2011 2000 hours
Follow Up Flag: Follow up
Flag Status: Completed

John,

8pm update below, which showed significant progress. Checking reservoir levels now.

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Date: 22 February 2011 8:21:53 PM GMT+10:00
To: [REDACTED]

[REDACTED]

Subject: Siterep Level 4 Incident: Mt Crosby WTP Loss of SCADA Control - 22 Feb 2011 2000 hours

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Regards

Brett Myatt

Manager Water Treatment Operations South

QLD Bulk Water Supply Authority trading as Seqwater



Ph (07) [REDACTED] | Fax (07) [REDACTED] | M [REDACTED] | E [REDACTED]

Level 3, 240 Margaret St, Brisbane City QLD 4000 Australia
PO Box 16146, City East QLD 4002

Website | www.seqwater.com.au

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[REDACTED]

From: Ken Smith [REDACTED]
Sent: Wednesday, 23 February 2011 7:07 AM
To: Bradley John
Subject: Re: Fwd: Siterep Level 4 Incident: Mt Crosby WTP Loss of SCADA Control - 22 Feb 2011 2000 hours
Thanks John. Will talk to you about the other matter later this morning. Have a breakfast talk. Be after 9.

From: Bradley John [REDACTED]
To: [REDACTED]
Cc: Ken Smith; spiller daniel @ SEQWGM [REDACTED]
Sent: Wed Feb 23 06:49:58 2011
Subject: Fw: Fwd: Siterep Level 4 Incident: Mt Crosby WTP Loss of SCADA Control - 22 Feb 2011 2000 hours

Nic

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* Reservoirs levels increased overnight and contain about one half day's supply for the zone.

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Pls let me know if you need further

John B

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Sent: Wednesday, February 23, 2011 06:31 AM
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[REDACTED]

From: Dan Spiller [REDACTED]
Sent: Wednesday, 23 February 2011 8:29 AM
To: Bradley John
Subject: RE: Fwd: Siterep Level 4 Incident: Mt Crosby WTP Loss of SCADA Control - 22 Feb 2011 2000 hours

John,

Linkwater and QUU have increased to daily testing for micro, metals, turbidity, colour and disinfection residual at key locations.

Dan

From: Bradley John [REDACTED]
Sent: Wednesday, 23 February 2011 6:50 AM
To: [REDACTED]
Cc: [REDACTED] Dan Spiller
Subject: Fw: Fwd: Siterep Level 4 Incident: Mt Crosby WTP Loss of SCADA Control - 22 Feb 2011 2000 hours

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John B

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Regards

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Ph (07) [redacted] | Fax (07) [redacted] | M [redacted] | E [redacted]
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[REDACTED]

From: Dan Spiller [REDACTED]
Sent: Wednesday, 23 February 2011 9:45 AM
To: Bradley John
Cc: Best Debbie; Lance McCallum; [REDACTED] Dennien Barry @ SEQWGM; [REDACTED]
Subject: RE: Fwd: Siterep Level 4 Incident: Mt Crosby WTP Loss of SCADA Control - 22 Feb 2011 2000 hours

Follow Up Flag: Follow up

Flag Status: Completed

John,

Further to earlier advice, QUU also increased storage last night by about 15 ML.

Schedule for today is to:

- Around now, increase production from North Pine WTP by at least 50 ML/day using temporary dosing equipment.
- By 1030, commence production at Mt Crosby West Bank WTP at 125 ML/day in automatic operation mode.
- Subject to above, Mt Crosby East Bank WTP will be shut down early afternoon with an aim of restarting in automatic operation mode by this evening.

If successful, about 90% of critical systems will have been re-established by this evening (albeit with some temporary servers and other equipment). We will then de-escalate the emergency and reduce production from the desalination facility. Over coming days, Seqwater will re-establish communications links between the Mt Crosby WTPs and North Pine WTP, enabling staffing levels to be reduced.

If unsuccessful, East Bank WTP will need to be re-started and operated in manual mode until at least tomorrow.

I will update you around 1600.

Regards,
 Dan

From: Bradley John [mailto:[REDACTED]]
Sent: Wednesday, 23 February 2011 6:50 AM
To: [REDACTED]
Cc: [REDACTED]; Dan Spiller
Subject: Fw: Fwd: Siterep Level 4 Incident: Mt Crosby WTP Loss of SCADA Control - 22 Feb 2011 2000 hours

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Control System Maintenance team has been able to bring back visibility of the Westbank control system. Operators will be working tonight to check the status of this plant and evaluate the operability of this plant.

The Westbank and Eastbank control systems are currently separated and we do not have visibility of both plants on the one system. This together with reinstating visibility and alarms from North Pine will be progressed tomorrow once the stability of the control system is assessed tonight.

Summary

While we do not have an accurate estimate for full operability, our situation has improved significantly in the last 12 hours. Over the next 24 hours, further evaluation and rectification of control systems and monitoring equipment will continue. While there remains uncertainty, the target will be to bring Holt's Hill disinfection into automatic control and evaluating Westbank WTP's capability to operate at 125ML/day. Further production from Eastbank WTP will also be a consideration in priorities.

Regards

Brett Myatt
Manager Water Treatment Operations South

QLD Bulk Water Supply Authority trading as Seqwater



Level 3, 240 Margaret St, Brisbane City QLD 4000 Australia
PO Box 16146, City East QLD 4002
Website | www.seqwater.com.au

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+-----+

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+-----+

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[REDACTED]

From: Dan Spiller [mailto:[REDACTED]]
Sent: Wednesday, 23 February 2011 2:26 PM
To: Zoe Russell
Cc: Lyons Michael @ SEQWGM; Geoff Stead; Bradley John
Subject: RE: Fwd: Siterep Level 4 Incident: Mt Crosby WTP Loss of SCADA Control - 22 Feb 2011 2000 hours

Zoe,

A report was provided an hour ago. I will forward it to you separately.

We will submit another around 5pm.

Dan

From: Zoe Russell [mailto:[REDACTED]]
Sent: Wednesday, 23 February 2011 2:05 PM
To: Dan Spiller
Cc: Michael Lyons; Geoff Stead
Subject: FW: Fwd: Siterep Level 4 Incident: Mt Crosby WTP Loss of SCADA Control - 22 Feb 2011 2000 hours

Hi Dan, can we please have another update on this situation this afternoon.

Michael – are you currently working on a press release on this?

Thanks
Zoe Russell
Senior Media Advisor
to the Hon Stephen Robertson MP
Minister for Energy and Water Utilities

[REDACTED]
<http://statements.cabinet.qld.gov.au/>

From: Lance McCallum
Sent: Wednesday, 23 February 2011 1:55 PM
To: Dan Spiller
Cc: Zoe Russell
Subject: RE: Fwd: Siterep Level 4 Incident: Mt Crosby WTP Loss of SCADA Control - 22 Feb 2011 2000 hours

Dan

Can you pls add Zoe Russell of our office to your ministerial distribution list

Thanks

From: Dan Spiller [mailto:[REDACTED]]
Sent: Wednesday, 23 February 2011 9:45 AM
To: Bradley John
Cc: [REDACTED]; Lance McCallum; Geoff Stead; Barry Dennien;
Subject: RE: Fwd: Siterep Level 4 Incident: Mt Crosby WTP Loss of SCADA Control - 22 Feb 2011 2000 hours

John,

Further to earlier advice, QUU also increased storage last night by about 15 ML.

Schedule for today is to:

- Around now, increase production from North Pine WTP by at least 50 ML/day using temporary dosing equipment.
- By 1030, commence production at Mt Crosby West Bank WTP at 125 ML/day in automatic operation mode.
- Subject to above, Mt Crosby East Bank WTP will be shut down early afternoon with an aim of restarting in automatic operation mode by this evening.

If successful, about 90% of critical systems will have been re-established by this evening (albeit with some temporary servers and other equipment). We will then de-escalate the emergency and reduce production from the desalination facility. Over coming days, Seqwater will re-establish communications links between the Mt Crosby WTPs and North Pine WTP, enabling staffing levels to be reduced.

If unsuccessful, East Bank WTP will need to be re-started and operated in manual mode until at least tomorrow.

I will update you around 1600.

Regards,
Dan

From: Bradley John [mailto:[REDACTED]]
Sent: Wednesday, 23 February 2011 6:50 AM
To: [REDACTED]
Cc: [REDACTED]; Dan Spiller
Subject: Fw: Fwd: Siterep Level 4 Incident: Mt Crosby WTP Loss of SCADA Control - 22 Feb 2011 2000 hours

1/04/2011

Nic

Latest sitrep below as at 8 pm last night

* Significant progress overnight, and water supply outlook for next few days is good, provided no operational failures (Still no clear timetable when in the next few days they will be able to move from manual to automated control)

* Mt Crosby Eastbank now up to 200 ML/day and stable at this level. It means we should be supplying more to the Central Zone (including Southern Regional transfers, North Pine Output) than we use.

* Reservoirs levels increased overnight and contain about one half day's supply for the zone.

* If you see a comment in the Sitrep recommending that manual operations require more checking of water quality downstream in the Linkwater network etc, I have confirmed this is happening today as a precaution.

Pls let me know if you need further

John B

From: Dan Spiller [mailto: [REDACTED]]
Sent: Wednesday, February 23, 2011 06:31 AM
To: Bradley John
Subject: Fwd: Sitrep Level 4 Incident: Mt Crosby WTP Loss of SCADA Control - 22 Feb 2011 2000 hours

John,

8pm update below, which showed significant progress. Checking reservoir levels now.

Dan

Begin forwarded message:

From: Brett Myatt [REDACTED]
Date: 22 February 2011 8:21:53 PM GMT+10:00
To: [REDACTED]

Subject: Sitrep Level 4 Incident: Mt Crosby WTP Loss of SCADA Control - 22 Feb 2011 2000 hours

Eastbank WTP

Mt Crosby Eastbank remains stable operating at 200ML/day.

Our Control System Maintenance team has been able to bring back much of our control system. Most of Eastbank WTP is visible and normal control is gradually being brought back into service but this will continue well into tomorrow. The main area that remains with significant faults which requires manual operation is disinfection systems at Eastbank WTP and Holt's Hill. Improved manual control has been implemented this afternoon using flows available from LinkWater. Further assessment and rectification is ongoing. Evaluation on operability of alarming is also continuing.

As indicated in the incident meeting today that due to the manual operation, loss of trending and alarming, the level of normal monitoring and control of disinfection normally able to be undertaken was not possible. Operator tests indicate primary disinfection was lower than HACCP Action limits and secondary disinfection was both low and high for periods with pH also higher than HACCP Action Limits. While we undertook sufficient monitoring to establish effective disinfection and therefore health parameters would have been met, it was less than normal available. Variations would have been mitigated by a high flow in SRWP, however my recommendation is that LinkWater and QUU increase system water quality monitoring to provide further assurance of quality.

Westbank WTP

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Summary

While we do not have an accurate estimate for full operability, our situation has improved significantly in the last 12 hours. Over the next 24 hours, further evaluation and rectification of control systems and monitoring equipment will continue. While there remains uncertainty, the target will be to bring Holt's Hill disinfection into automatic control and evaluating Westbank WTP's capability to operate at 125ML/day. Further production from Eastbank WTP will also be a consideration in priorities.

Regards

Brett Myatt
Manager Water Treatment Operations South

QLD Bulk Water Supply Authority trading as Seqwater



[REDACTED]
Level 3, 240 Margaret St, Brisbane City QLD 4000 Australia
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[REDACTED]

From: Dan Spiller [REDACTED]
Sent: Wednesday, 23 February 2011 5:19 PM
To: Bradley John; [REDACTED] Lance McCallum; Geoff Stead
Cc: 'Rob Drury'; 'Mike Foster'; Best Debbie; Reilly Bob; [REDACTED]
Dennien Barry @ SEQWGM; Lyons Michael @ SEQWGM; [REDACTED]
Subject: Technical Situation Report
Follow Up Flag: Follow up
Flag Status: Completed
Attachments: Technical_Situation_Report_W73.docx

All,

Current Technical Situation Report attached. Releases have increased back to 371 cubic metres per second.

Regards,
Dan

Daniel Spiller
Director, Operations
SEQ Water Grid Manager

Phone: [REDACTED] | Fax: [REDACTED] | Mobile: [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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[REDACTED]

From: Best Debbie
Sent: Thursday, 24 February 2011 2:52 PM
To: Bradley John
Subject: FW: Request for post-flood data [SEC=UNCLASSIFIED] FOR YOUR INFORMATION

John
If you go to the bottom of the email chain you will see request from Peter Baddiley from BoM and then our responses.
Debbie.

Debbie Best
Deputy Director-General, Water and Ecosystem Outcomes Division
Telephone [REDACTED] **Mobile** [REDACTED]
Email [REDACTED]
www.derm.qld.gov.au

Department of Environment and Resource Management
Level 13, 400 George Street, Brisbane Q 4000
GPO Box 2454, Brisbane Q 4001

From: Milligan Graeme
Sent: Thursday, 24 February 2011 2:46 PM
To: Best Debbie
Subject: FW: Request for post-flood data [SEC=UNCLASSIFIED]

Fyi
This is the response to the Bureau - a follow up to my earlier e-mail
We are continuing to provide data as requested (and registered)

Graeme M

From: Long Greg
Sent: Thursday, 24 February 2011 2:36 PM
To: Peter Baddiley; White Ian
Cc: Milligan Graeme; Cameron Alasdair; Martin Paul (Landcentre)
Subject: FW: Request for post-flood data [SEC=UNCLASSIFIED]

Peter
Information as requested and supplied by our Brisbane Office below.
If you have any priority sites, please advise and I will endeavour to have our Brisbane Office validate information or obtain survey data to progress. Hopefully, the end of next week will meet your needs.

Please advise if you require clarification or additional information.

Ian
For your records.

Regards
Greg Long

1/04/2011

Director, Water Accounting
Water Quality and Accounting
Telephone [REDACTED] Mobile [REDACTED]
Facsimile [REDACTED]
www.derm.qld.gov.au

Department of Environment and Resource Management
41 George Street, Brisbane Q 4000
GPO Box 2454, Brisbane Q 4001



Obtain real time stream flow data from
http://www.derm.qld.gov.au/water/monitoring/current_data/map_qld.php

From: Cameron Alasdair
Sent: Thursday, 24 February 2011 2:26 PM
To: Long Greg
Cc: Martin Paul (Landcentre); White Ian; Pearson Mark
Subject: RE: Request for post-flood data [SEC=UNCLASSIFIED]

Greg,

1. A number of peak heights and slopes have been pegged but yet to be surveyed, however Helidon has been surveyed in at 13.880m and estimated to have occurred at 15:10 on 10/01/2011. The data recovered from the logger has helped in estimating this time. I can also report that the Helidon control weir has been cleaned out and returned to normal operation. The height data is again good although there may be some hunting due to the river end requiring some minor repairs.
2. We are currently working on all data gathered from this event and have extra staff coming next week to assist in the validation process. We have also scheduled staff to survey all pegged slopes and peak heights so hopefully will have validated height and flow data available by the end of next week for some of the Brisbane Valley sites.

Ali.

From: Long Greg
Sent: Thursday, 24 February 2011 1:23 PM
To: Cameron Alasdair; White Ian
Cc: Peter Baddiley; Milligan Graeme; Aitken Ken
Subject: FW: Request for post-flood data [SEC=UNCLASSIFIED]

Ali
Can you please advise me for response to Peter?
Ian
Please log in BOM requests

Regards
Greg Long
Director, Water Accounting

Water Quality and Accounting

Telephone [REDACTED] Mobile [REDACTED]

Facsimile [REDACTED]

www.derm.qld.gov.au

Department of Environment and Resource Management
41 George Street, Brisbane Q 4000
GPO Box 2454, Brisbane Q 4001



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http://www.derm.qld.gov.au/water/monitoring/current_data/map_qld.php

From: Peter Baddiley [mailto:[REDACTED]]
Sent: Thursday, 24 February 2011 1:13 PM
To: Long Greg
Cc: Peter Baddiley
Subject: Request for post-flood data [SEC=UNCLASSIFIED]

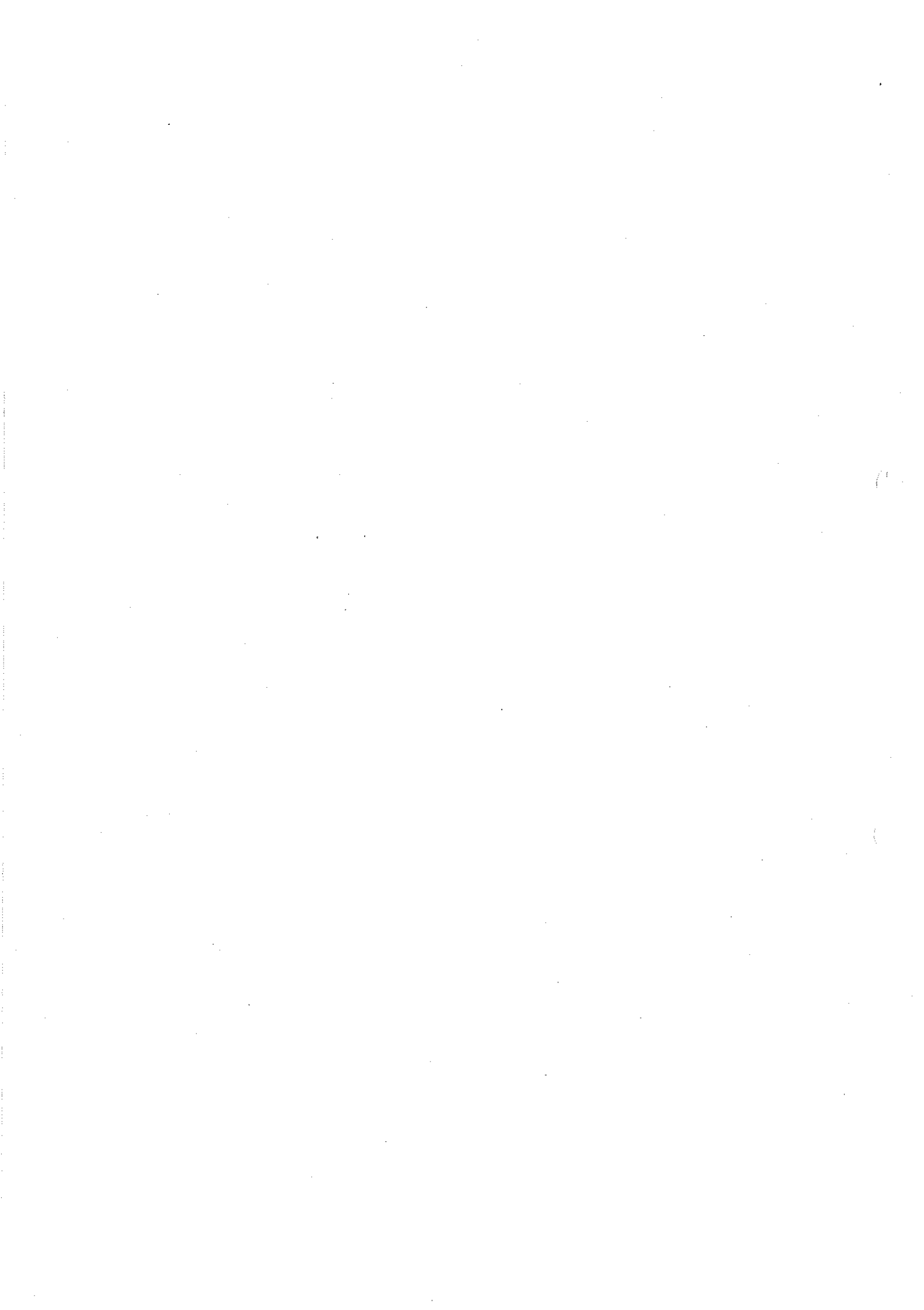
Hi Greg

1. Do you have an estimated peak level from flood debris at gauging stations, especially at Helidon gauging station ?
2. Are the gaugings (and revision to ratings?) taken during the 2010-2011 floods in southern Qld available, especially for the Brisbane R basin?

Appreciate any advice you can provide at this time.

regards, peter

Peter Baddiley
Regional Hydrology Manager
Climate & Water Division
Bureau of Meteorology
Level 21, 69 Ann Street
GPO Box 413, BRISBANE, QLD, AUSTRALIA 4001
Phone: [REDACTED] Fax : [REDACTED]
EMAIL: [REDACTED]
EMAIL for flood matters: [REDACTED]
WWW : www.bom.gov.au



[REDACTED]

From: Best Debbie
Sent: Friday, 25 February 2011 7:41 AM
To: Bradley John
Subject: FW: Request for post-flood data [SEC=UNCLASSIFIED]

John

Simon's advice re alignment of information between BCC and BOM.

I will give Simon the okay for the request I have underlined after you have seen this email.

Please check Graeme's advice below.

Debbie

Debbie,

This accords with what we provided to BCC in the letter, however we suggested that we would provide updates once they were available in late March. Greg Long's email suggests that they will be available in early March. With your approval, I will contact BCC at an officer to officer level once the first gauging records are validated (say Monday week or thereabouts) and find out whether this information is of relevance to the BCC taskforce or whether they are happy to receive it through the BOM (who are members of the BCC taskforce and are receiving the information from DERM directly (this is standard practice)).

What we said in the letter:

"Validation of gauging station ratings curves is currently underway for a number of Seqwater and the department's gauging locations. Extra resources have been committed to support the timely completion of this work recognising the size of the flooding event, the need to continue to return gauging stations to full operating conditions and the ongoing flood-gauging requirements. **The department will provide these updated ratings curves to council as they are validated.** It is anticipated that the **first updates will be completed in late March and all validations will be finalised by the end of April.**"

I think that this is low risk for us. Happy to check in with BCC if that is appropriate, but I think that there is no need until we have the first validations completed.

Regards,
Simon.

Debbie Best

Deputy Director-General, Water and Ecosystem Outcomes Division

Telephone [REDACTED] Mobile [REDACTED]

Email [REDACTED]

www.derm.qld.gov.au

Department of Environment and Resource Management

Level 13, 400 George Street, Brisbane Q 4000

GPO Box 2454, Brisbane Q 4001

From: Milligan Graeme
Sent: Thursday, 24 February 2011 5:41 PM
To: Best Debbie
Subject: FW: Request for post-flood data [SEC=UNCLASSIFIED]

Note that the BOM are using the info from us in the input to the coronial investigation

I have not heard anything about us being involved in this

1/04/2011

From: Peter Baddiley [mailto: [REDACTED]]
Sent: Thursday, 24 February 2011 4:13 PM
To: Long Greg; White Ian
Cc: Milligan Graeme; Cameron Alasdair; Martin Paul (Landcentre)
Subject: RE: Request for post-flood data [SEC=UNCLASSIFIED]

Thanks Greg ... that's great. I know everyone has a lot to do now to process information.

If ok, I will use that surveyed Helidon flood peak in our reporting for a coronial investigation, but duly reference the information to DERM and describe that it was surveyed post-flood.

regards, peter

Peter Baddiley
Regional Hydrology Manager
Climate & Water Division
Bureau of Meteorology
Level 21, 69 Ann Street
GPO Box 413, BRISBANE, QLD, AUSTRALIA 4001
Phone: (+61) [REDACTED] Fax : (+61) [REDACTED]
EMAIL: [REDACTED]
EMAIL for flood matters: [REDACTED]
WWW : www.bom.gov.au

From: Long Greg [mailto: [REDACTED]]
Sent: Thursday, 24 February 2011 2:36 PM
To: Peter Baddiley; White Ian
Cc: Milligan Graeme; Cameron Alasdair; Martin Paul (Landcentre)
Subject: FW: Request for post-flood data [SEC=UNCLASSIFIED]

Peter
Information as requested and supplied by our Brisbane Office below.
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Please advise if you require clarification or additional information.

Ian
For your records.

Regards
Greg Long
Director, Water Accounting
Water Quality and Accounting
Telephone [REDACTED] Mobile [REDACTED]
Facsimile [REDACTED]
www.derm.qld.gov.au

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Cc: Peter Baddiley; Milligan Graeme; Aitken Ken
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Please log in BOM requests

Regards
Greg Long
Director, Water Accounting
Water Quality and Accounting
Telephone [REDACTED] Mobile [REDACTED]
Facsimile [REDACTED]
www.derm.qld.gov.au

Department of Environment and Resource Management
41 George Street, Brisbane Q 4000
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http://www.derm.qld.gov.au/water/monitoring/current_data/map_qld.php

From: Peter Baddiley [mailto: [REDACTED]]
Sent: Thursday, 24 February 2011 1:13 PM
To: Long Greg
Cc: Peter Baddiley
Subject: Request for post-flood data [SEC=UNCLASSIFIED]

Hi Greg

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regards, peter

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Climate & Water Division
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WWW : www.bom.gov.au

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From: Cotter Claire
Sent: Friday, 25 February 2011 11:51 AM
To: 'Shannon Jimmieson'
Cc: BRAY Neil; Hurman Cameron; Robson Chris; Bradley John; Smith_Roberts Megan
Subject: SVS Flood Impact Assessment Project
Attachments: flood-maps.pdf

Hi Shannon,

In response to your below request, I can advise:

1. Whilst the BCC estimate of affected properties is around 14,500 properties the SVS estimate is 16,200 properties, we are working on the basis of a maximum of 18,000 properties. Inspections on the flood areas is underway and will be completed prior to 25 March.
2. Spatial information includes Mapinfo with (a) various flood lines including the 2011 flood line provided by the BCC ESRI model as well as the debris line calculated by our own cartographers. The difference assists in estimating where flood splashes have occurred above the general flood line. We also have the 1974 flood line so we can easily identify new areas on inundation. (b) we have Lidar contour mapping to 0.25 metre which provides for very accurate flood depth assessment. We have created three "impact" categories (as defaults) based on inundation levels and all of this information has been mapped in a way that allows the valuers to conduct accurate field validation of data. As part of this process, interviews of property owners are being undertaken and by the end of the project, we expect approximately 500 interviews will have been conducted.
3. The desktop exercise has been automated to link the properties, flood levels, known photography, contours and basic MapInfo imagery. We have also divided the city into a detailed map grid which allows for a systematic inspection process to ensure all flooded streets are inspected. I attach a scan of some of the images (3) showing different impact ranges in colour.
4. Adjustments range from 10% to 25% for sites that are partially inundated without affecting the accommodation level to sites where there is full site inundation and an upper level accommodation would be affected.

If you require any further information, just let me know.

Regards,

Claire

Claire Cotter (nee Kinnane)
 Principal Advisor
 State Valuation Services
 Land and Indigenous Services
 Department of Environment and Resource Management

P: [REDACTED]
 F: [REDACTED]
 E: [REDACTED]
 W: www.derm.qld.gov.au

Level 12, 400 George Street, Brisbane Q 4000
 PO Box 2454 Q 4002

From: Shannon Jimmieson [mailto:[REDACTED]]
Sent: Friday, 25 February 2011 10:02 AM
To: Cotter Claire
Subject: RE: Site Value

Thanks Claire, also in yesterday's meeting with the Minister, Neil said he would send

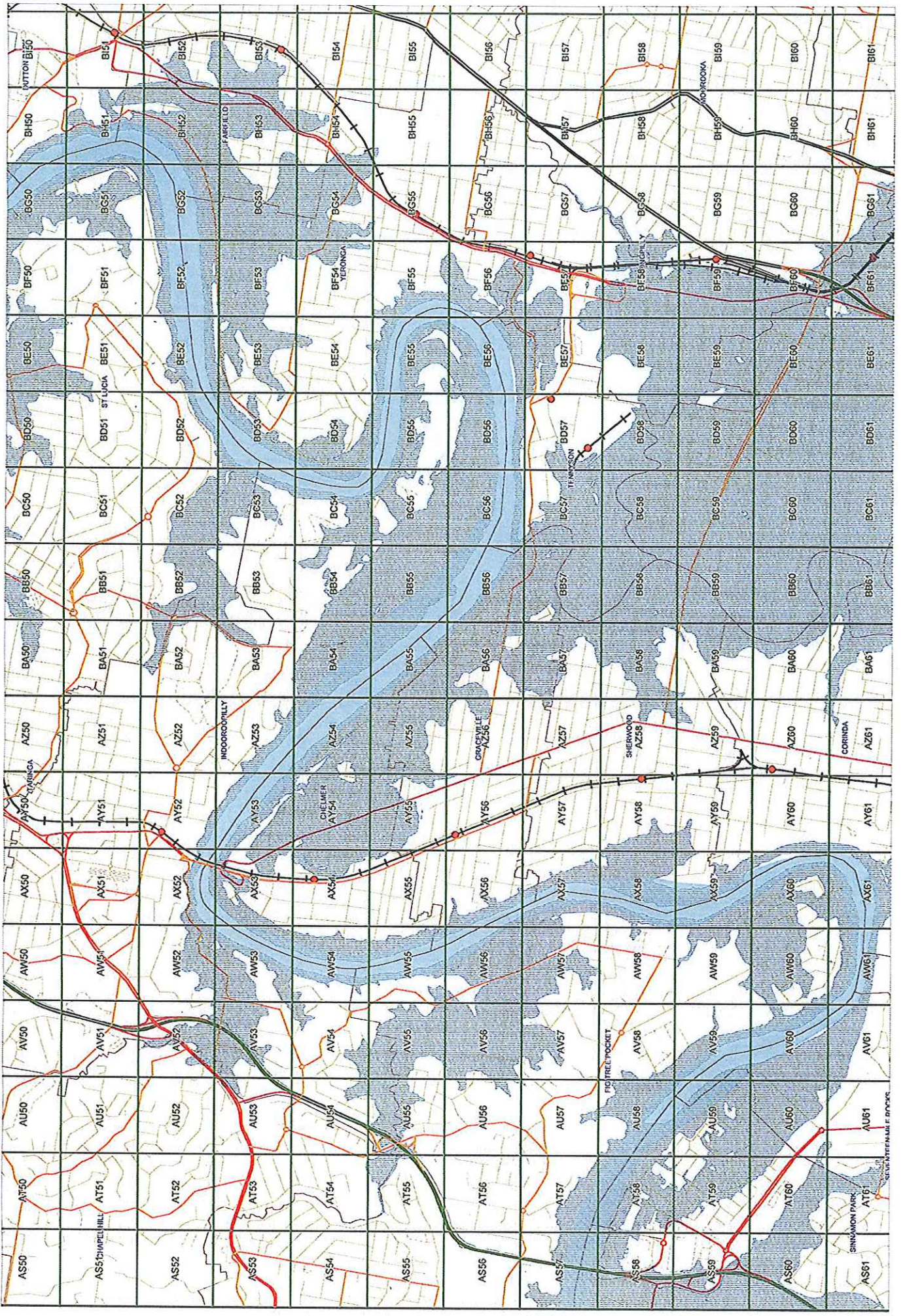
up some lines around the 6 week flood impact assessment project the SVS is undertaking – could you pls get something back to me on that by noon today?

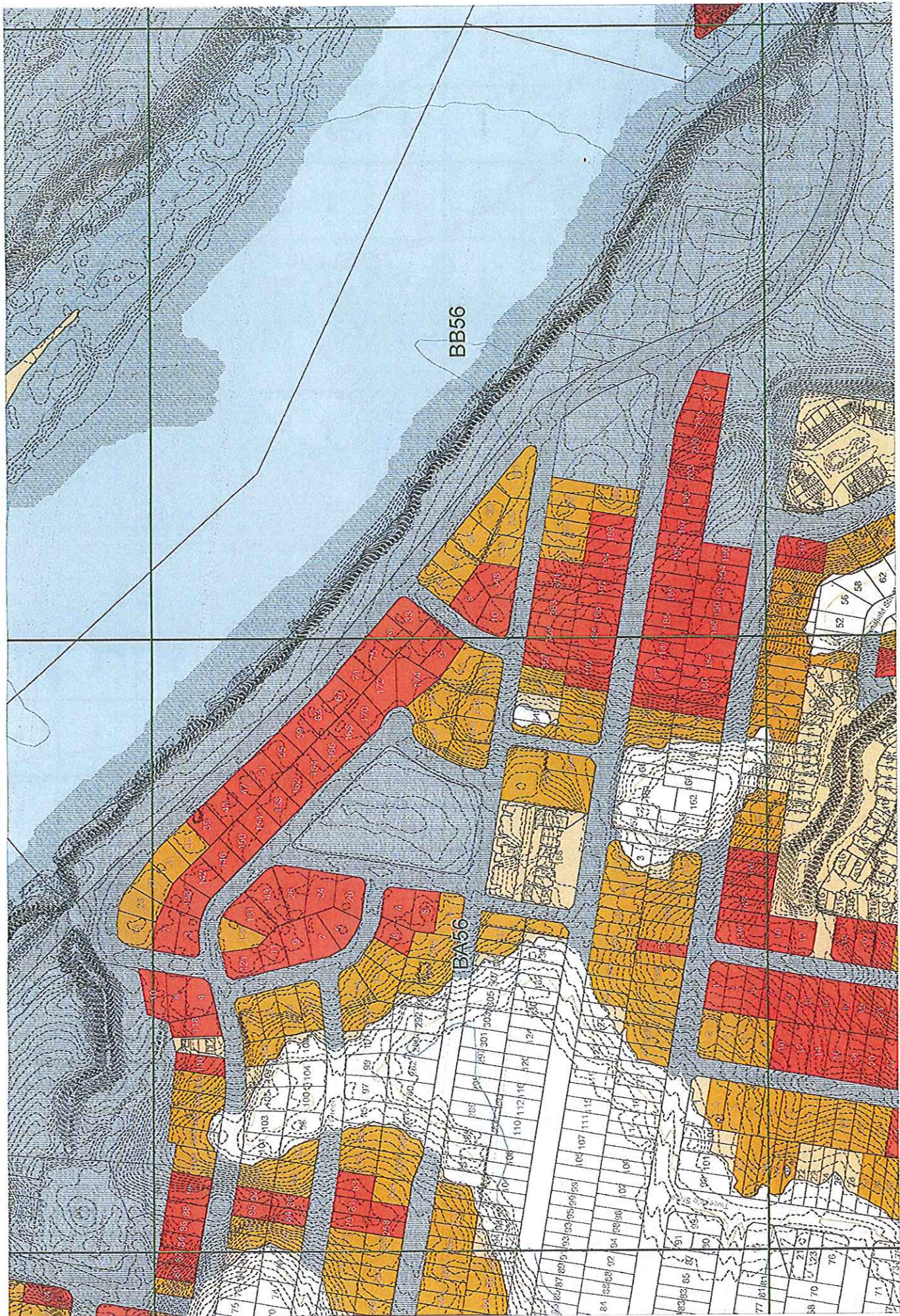
Shannon Jimmieson

Office of the Minister for Environment and Resource Management

Ph: [REDACTED]

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