

DATE	TIME	ACTION	CATEGORY	INITIALS
Thursday 6/1/2011	7:00 AM	<p>TM duty Engineer. Rainfall and water had been remote monitored to this point in time. TM advises Senior Duty Engineer that Flood Operations are required at both Somerset, Wivenhoe and North Pine Dams. TM arrived at FOC to assess strategies and mobilises FOC, Wivenhoe, Somerset and North Pine Dam.</p> <p><u>North Pine Dam</u> At 07:00hrs Thursday, North Pine Dam was 39.60m, 0.05m below gate trigger level and having risen 0.18m since 2/1/2011 due to a combination of base flow and runoff from rain in the last 24 hours. Given the forecast rain, gate operations will commence tonight. MBRC will be advised this morning.</p> <p><u>Somerset Dam</u> At 07:00hrs Thursday, Somerset Dam was 99.34m, 0.34m above FSL, and rising slowly. The rain in the Stanley River catchment has produced a small amount of runoff in the upper Stanley but there have been significant rises in Kilcoy Ck. Further regulator operations will be required later Thursday.</p> <p><u>Wivenhoe Dam</u> The regulator and hydro were discharging at 50 cumecs to manage baseflow recession from previous flow event. At 07:00hrs Thursday, Wivenhoe Dam was 67.31m and rising slowly. This is 0.31m above FSL and above the gate trigger level of 67.25m. There</p>	Situation Report	MT
	8:00 AM	SDWD Model Updated - SDWD-201101060800.xls	Model Run	JW
	8:00 AM	NPD model updated - NPD-201101060800.xls	Model Run	JW
	8:14 AM	<p>Situation Report 0800 06/01/2011</p> <p><u>Rainfall</u> - Since 9am Wednesday, there have been widespread falls of 30mm with isolated heavy falls up to 50mm in the Somerset and Wivenhoe catchments. Totals in the North Pine catchment have generally been below 10mm. Falls up to 60mm were recorded in the Leslie Harrison catchment. - The forecast for the next 24 to 48 hours is for totals up to 150mm in SE Qld. - The catchments remain wet and are likely to generate additional runoff in the event of rain.</p> <p><u>North Pine Dam</u> - At 0700 Thursday, North Pine Dam was 39.60m, 0.05m below gate trigger level and having risen 0.18m since 2/1/2011 due to a combination of baseflow and runoff from rain in the last 24 hours. - Given the forecast rain, gate operations will commence tonight. MBRC will be advised this morning</p> <p><u>Somerset Dam</u> - At 0700 Thursday, Somerset Dam was 99.34m, 0.34m above FSL, and rising slowly. The rain in the Stanley River catchment has produced a small amount of runoff in the upper Stanley but there have been significant rises in Kilcoy Ck. Further regulator operations will be required later Thursday.</p>	Situation Report	TM

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Date:

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Exhibit Number:

DATE	TIME	ACTION	CATEGORY	INITIALS
		<p><u>Wivenhoe Dam</u> - At 0700 Thursday, Wivenhoe Dam was 67.31m and rising slowly. This is 0.31m above FSL and above the gate trigger level of 67.25m. There have been rises recorded at rivers and stream upstream of Wivenhoe Dam. Gates will be opened in the next 24 hours to manage the inflows from the upper Brisbane River and the outflow from Somerset.</p> <p><u>Impacts of Wivenhoe Dam Releases</u> - Somerset Regional, Ipswich City and Brisbane City Councils will be advised of the potential for gate operations after a full assessment of the situation this morning. At this stage it is anticipated that peak releases from Wivenhoe will be below 500m3/s but this will depend on the forecast rain and flows downstream of the dam. - The expected Wivenhoe release and local flows will at least impact upon Twin Bridges, Savages Crossing, Kholo Bridge and Colleges Crossing for several days. At this stage, there are not expected to be any adverse impacts upon Fernvale Bridge, Burtons Bridge or Mt Crosby Weir Bridge</p> <p><u>Leslie Harrison Dam</u> Following the heavy rainfall Wednesday night, gate operations commenced at Leslie Harrison Dam late Wednesday night and are continuing. Given the forecast rainfall, gate operations are expected to continue for the next 24 to 48 hours.</p> <p>The next situation report will be issued at 1800 Thursday 6/1/2011.</p>	Situation Report	
	8:30 AM	MT spoke with Graham Keegan (Stand-in Central Coordinator) about readiness of staff for flood operations. Graham confirms that staff have been rostered and are ready.	Correspondence	MT
	8:50 AM	Andy Bickerton (MBRC) called to query about flows are Fernvale bridge. TM provided an update for possible gate operations.	Correspondence	MT
	9:05 AM	Glen Paterson called to inform that North Pine Dam staff have been rostered and are ready.	Correspondence	MT
	9:40 AM	Rob Drury called to inform that Tony Trace has returned to the office and is contactable. He also requested for a situation update.	Correspondence	MT
	11:00 AM	Tony Trace (Ipswich City Council (ICC)) called for a situation update. TM shared the release strategy for tonight.	Correspondence	MT
	11:49 AM	TM advised MBRC Call Centre that North Pine Dam will commence gate operations tonight. He requested for MBRC to call him.	Correspondence	MT
	12:00 PM	SDWD Model Updated - SDWD-201101061200.xls	Model Run	JW
	12:04 PM	Kerry (MBRC) called. TM advised her that the latest North Pine Dam gates may be opened will be 7:00pm today. FOC will advise them accordingly.	Correspondence	MT
	12:43 PM	Andy Bickerton (MBRC) called. TM advised that water will be over Savages Crossing until end of the week.	Correspondence	MT
	12:46 PM	TM advised Ken Marsh (BCC) Wivenhoe Dam will commence gate operations later today.	Correspondence	MT
	1:30 PM	<p><u>Revised Operating Strategy 1200 6/1/2011</u> <u>North Pine</u> - On track to open tonight</p> <p><u>Somerset/Wivenhoe</u> - No change to current status – expected inflow volume about 45,000ML. Will reach about 99.7m AHD without releases. - Expected inflow volume about 130,000ML including Somerset. Will reach about 68.3m AHD without releases. - There has been further heavy falls in the Lockyer since 0900 Thursday and the flow from the Lockyer is going to be larger than initially assessed, possibly as high as 600m3/s peaking Saturday. This may close Burtons without any contribution from Wivenhoe. The opening of the Wivenhoe gates will therefore be delayed until the Lockyer peak passes.</p>	Situation Report	TM
	1:32 PM	TM left message for Tony Jacobs (SRC) to return his call.	Correspondence	MT
	1:35 PM	TM advised Andy Bickerton (MBRC) Wivenhoe gate operations will be delayed to Saturday morning. This is due to higher than expected inflows from Lockyer.	Correspondence	MT
	1:45 PM	TM advised Tony Trace (ICC) Wivenhoe's gate operations will be delayed till Saturday morning. This is due to higher than expected inflows from Lockyer.	Correspondence	MT
	1:46 PM	TM left message for Chris Levin (BCC) to return his call.	Correspondence	MT

DATE	TIME	ACTION	CATEGORY	INITIALS
	1:47 PM	TM left message for Ken Morris (BCC) to return his call.	Correspondence	MT
	2:41 PM	Andy Bickerton (MBRC) asked for TM's mobile. He wanted to share MBRC's text message informing people living downstream from North Pine Dam.	Correspondence	MT
	2:45 PM	Ken Morris (BCC) called for situation update. TM provided an update.	Correspondence	MT
	2:54 PM	<p>Situation Report 1500 06/02/2011</p> <p><u>Rainfall</u> - In the 6 hours since 9am Wednesday, there have been general totals around 30mm with isolated heavy falls up to 60mm in the Somerset and Wivenhoe catchments. Totals in the North Pine catchment have generally been between 20 and 30mm. Falls between 20 and 30mm were recorded in the Leslie Harrison catchment. -The forecast for the next 24 to 48 hours is for totals up to 100mm in SE Qld. -The catchments remain wet and are likely to generate additional runoff in the event of rain.</p> <p><u>North Pine Dam</u> At 1400 Thursday, North Pine Dam was 39.66m, 0.01m above gate trigger level. Gate operations will commence at 1900 Thursday and will impact upon Youngs Crossing. MBRC have been advised and will confirm closure of Youngs Crossing prior to gate operations. Given the forecast rainfall during Friday, gate operations may continue into Saturday.</p> <p><u>Somerset Dam</u> At 0700 Thursday, Somerset Dam was 99.34m, 0.34m above FSL, and rising slowly. The rain in the Stanley River catchment has produced a small amount of runoff in the upper Stanley but there have been significant rises in Kilcoy Ck, adding to the Somerset inflow.</p>	Situation Report	TM
		<p><u>Wivenhoe Dam</u> - At 0700 Thursday, Wivenhoe Dam was 67.31m and rising slowly. This is 0.31m above FSL and above the gate trigger level of 67.25m. There have been rises recorded at rivers and stream upstream of Wivenhoe Dam. The estimated event inflow volume into Wivenhoe Dam is 180,000ML including Somerset Dam outflow. - There has been significant rainfalls in the Lockyer Ck catchment since 0900 Thursday and a peak of about 600m3/s is expected from the Lockyer late Friday. Wivenhoe gates will be opened after flood levels in the lower Lockyer subside. At this stage Wivenhoe releases during Saturday may be as high as 1,500m3/s and continue for a couple of days.</p> <p><u>Impacts of Wivenhoe Dam Releases</u> - Somerset Regional, Ipswich City and Brisbane City Councils have been advised of the potential for gate operations during the next 24 hours. - The will at least impact upon Twin Bridges, Savages Crossing, Kholo Bridge and Colleges Crossing for several days. The relatively high Lockyer flows will at least impact upon Twin Bridges, Savages Crossing, Kholo Bridge and Colleges Crossing for several days</p>	Situation Report	
	3:00 PM	SDWD Model Updated - SDWD-201101061500.xls	Model Run	JW
	3:11 PM	Jimmy Stewart (BoM) called to discuss with TM about readings from Upper Brisbane & Lockyer. Jimmy & TM are in agreement on readings.	Correspondence	MT
	3:19 PM	Kerry (MBRC) called. TM advised her North Pine Dam will commence gates operations from 19:00 hrs.	Correspondence	MT
	4:00 PM	SDWD Model Updated - SDWD-201101061600.xls	Model Run	JW
	4:00 PM	NPD model updated - NPD-201101061600.xls	Model Run	
	5:30 PM	<p>Issued North Pine Directive #1.</p> <ul style="list-style-type: none"> • Gate C : Open 1 increment at 1900 • Gate E : Open 1 increment at 1915 • Gate A : Open 1 increment at 1930 • Gate D : Open 1 increment at 1945 • Gate B : Open 1 increment at 2000 	Directive	NGA

DATE	TIME	ACTION	CATEGORY	INITIALS
	5:33 PM	<p>Situation Report 1800 06/01/2011</p> <p><u>Rainfall</u></p> <p>- In the 8 hours since 9am Wednesday, there have been general totals around 30mm with isolated heavy falls up to 60mm in the Somerset and Wivenhoe catchments. There have been significant rainfalls in the Lockyer Ck catchment in the last 24 hours with widespread falls of 50mm and isolated falls up to 75mm. Totals in the North Pine catchment have generally been about 30mm. Falls between 20 and 30mm were recorded in the Leslie Harrison catchment.</p> <p>- The forecast for the next 24 to 48 hours is for totals up to 100mm in SE Qld.</p> <p><u>North Pine Dam</u></p> <p>At 1700 Thursday, North Pine Dam was 39.68m, 0.03m above gate trigger level. Gate operations will commence at 1900 Thursday and will impact upon Youngs Crossing. Moreton Bay Regional Council has been advised and will confirm closure of Youngs Crossing prior to gate operations. Given the forecast rainfall during Friday, gate operations may continue into Saturday.</p> <p><u>Somerset Dam</u></p> <p>At 1700 Thursday, Somerset Dam was 99.45m, 0.45m above FSL, and rising slowly. The rain in the Stanley River catchment has produced a small amount of runoff in the upper Stanley but there have been significant rises in Kilcoy Ck, adding to the Somerset inflow.</p> <p><u>Wivenhoe Dam</u></p> <p>- At 1700 Thursday, Wivenhoe Dam was 67.39m and rising slowly. This is 0.39m above FSL and above the gate trigger level of 67.25m. Upstream of the dam river levels are still rising at the Linville and Gregors Ck gauges. The estimated event inflow volume into Wivenhoe Dam is 180,000ML including Somerset Dam outflow.</p> <p>- A peak of about 600m3/s is expected from the Lockyer late Friday. At this stage there is some uncertainty associated with this estimate and it may or may not impact Burtons Bridge. Wivenhoe gates will be opened after the impact of Lockyer flows on Burtons Bridge has been ascertained and flood levels in the lower Lockyer subside. At this stage Wivenhoe releases will commence late Friday/early Saturday and may be as high as 1,500m3/s, similar to recent events, and continue for a couple of days.</p> <p><u>Impacts of Downstream of Wivenhoe</u></p> <p>- Somerset Regional, Ipswich City and Brisbane City Councils have been advised of the potential for gate operations during the next 24 hours.</p> <p>- The relatively high Lockyer flows will adversely impact upon Twin Bridges, Savages Crossing, Kholo Bridge and Colleges Crossing for several days and may impact upon Burtons Bridge early Saturday. At this stage, there are not expected to be any adverse impacts.</p>	Situation Report	TM
	6:57 PM	Brett Schultz (North Pine Dam) called to inform that MBRC workmen were waiting until 19:00 hrs to close Young's Crossing boom gates. This delayed dam gate opening by 15 minutes.	Correspondence	NGA
	7:45 PM	Graham Francis (Somerset Dam) called to enquire about the release strategy. RA advised the impacts of the Lockyer flow were being monitored. Communication by e-mail was O.K.'ed.	Correspondence	NGA
	8:15 PM	<p>Issued North Pine Directive #2.</p> <ul style="list-style-type: none"> • Gate C : Open to 2 increments at 20:30 • Gate E : Open to 2 increments at 20:45 • Gate A : Open to 2 increments at 21:00 • Gate D : Open to 2 increments at 21:15 • Gate B : Open to 2 increments at 21:30 	Directive	NGA
	9:00 PM	NPD model updated - NPD-201101062100.xls	Model Run	
	9:00 PM	SDWD Model Updated - SDWD-201101062100.xls	Model Run	JW

DATE	TIME	ACTION	CATEGORY	INITIALS
Friday, 7 January 2011	6:07 AM	<p>FOC Situation Report at 06:00 on Friday 7 January 2011</p> <p><u>Rainfall</u></p> <ul style="list-style-type: none"> - There have been general totals around 30 to 50 mm with isolated heavy falls up to 75mm in the Somerset and Wivenhoe catchments since the event commenced on Wednesday 5 January 2011. There have been significant rainfalls in the Lockyer Ck catchment in the last 72 hours with widespread falls of 50mm and isolated falls up to 100mm. - Totals in the North Pine catchment have generally been about 35mm. - Falls between 20 and 30mm were recorded in the Leslie Harrison catchment. - The forecast for the next five days is for totals between 100 and 200mm in SE Qld. Given the saturated condition of the catchments further runoff will most likely be generated from this rainfall. <p><u>North Pine Dam</u></p> <p>At 0600 Friday, North Pine Dam was at 39.48m, 0.12m below FSL. Gate operations commenced at 1915 on Thursday 6 January and are expected to continue until at least mid-day Friday 7 January when North Pine Dam is expected to be at 39.40m. These releases have impacted upon Youngs Crossing. Moreton Bay Regional Council was advised and they closed Youngs Crossing prior to gate</p>	Situation Report	LVB
		<p><u>Wivenhoe Dam</u></p> <ul style="list-style-type: none"> - At 0600 Friday, Wivenhoe Dam was at 67.64m and rising slowly. This is 0.64m above FSL and above the gate trigger level of 67.25m. Upstream of the dam river levels have peaked at the Linville and Gregors Ck gauges. The estimated event inflow volume into Wivenhoe Dam is 230,000ML including Somerset Dam outflow. - A peak of about 470 cumecs is expected from Lockyer Creek by mid-afternoon on Friday 7 January. At this stage there is some uncertainty associated with this estimate but it may be of sufficient magnitude to inundate Burtons Bridge. - Wivenhoe gate releases will occur after the impact of Lockyer flows on Burtons Bridge has been ascertained and flood levels in the lower Lockyer subside. It is proposed that Wivenhoe releases will commence late Friday/early Saturday and may be as high as 1,200 cumecs, (similar but slightly smaller to recent events), and the releases are expected to continue over the weekend though to Monday or Tuesday. <p><u>Impacts of Downstream of Wivenhoe</u></p> <ul style="list-style-type: none"> - Somerset Regional Council, Ipswich City Council and Brisbane City Council have been advised of the potential for gate operations 	Situation Report	
	7:00 AM	TM and LVB commenced day shift.	Other	LVB
	8:00 AM	Advice from BoM indicates that SEQ can expect some high rainfall totals over the next 5 days up to Tuesday 11/1/11 with the largest falls predicted for Sunday and Monday.	Correspondence	LVB
	8:00 AM	NPD model updated - NPD-201101070800.xls	Model Run	
	8:21 AM	Called Tony Jacobs @ Somerset Council to inform him that the Lockyer is running - all bridges in Somerset Region will be cut off this morning. Wivenhoe gates will be opened once the Lockyer peak is through.	Correspondence	LVB
	8:40 AM	FOC called Kerry (MBRC) to inform them that North Pine will be operate for the next few days - probably till Tuesday.	Correspondence	LVB
	8:44 AM	Called Chris Lavin (BCC) to inform that Wivenhoe gates will be opened again this afternoon and releases might peak at 1500m3/s. This might continue until the end of next week.	Correspondence	LVB
	8:47 AM	Called Tony Trace (ICC) to inform him that Wivenhoe gates will be opened again this afternoon and releases might peak at 1500m3/s. This might continue until the end of next week.	Correspondence	LVB
	10:12 AM	Called Robert Glen (BCC) to provide situation report.	Correspondence	LVB
	12:00 PM	NPD model updated - NPD-201101071200.xls	Correspondence	
	12:00 PM	SDWD Model Updated - SDWD-201101071200.xls	Model Run	JW
	12:15 PM	<p><u>SitRep</u></p> <p>There has been falls between 15 and 30mm in the North Pine catchment in the last 3 hours. This will cause renew rises and increased inflows.</p> <p>There are no gate movements projected for the next 3 hours.</p>	Situation Report	TM

DATE	TIME	ACTION	CATEGORY	INITIALS
	12:34 PM	Issued Wivenhoe Directive #1. • 15:00 Open Gate 3 from 0.0 metres to 0.5 metres • 16:00 Open Gate 3 from 0.5 metres to 1.0 metres • 17:00 Open Gate 3 from 1.0 metres to 1.5 metres • 18:00 Open Gate 3 from 1.5 metres to 2.0 metres • 19:00 Open Gate 3 from 2.0 metres to 2.5 metres • 20:00 Open Gate 3 from 2.5 metres to 3.0 metres • 21:00 Open Gate 3 from 2.5 metres to 3.5 metres	Directive	LVB
	3:02 PM	Don Carol (BCC) called FOC with concerns that dam release will add another 200mm on top of abnormal high tide. TM spoke to Jimmy Stewart (BoM) who advised that the effect could be around 50mm - if that can be measured.	Correspondence	LVB
	5:00 PM	Issued Somerset Directive #1. • Please open a regulator 100%	Directive	LVB
	6:00 PM	SDWD Model Updated - SDWD-201101071800.xls	Model Run	JW
	6:00 PM	Issued Somerset Directive #2. • Please open Sluice M at 12:00.	Directive	LVB
	6:00 PM	Issued North Pine Directive #3. • Gate B : Close to 1 increment at 19:00 • Gate D : Close to 1 increment at 19:15 • Gate A : Close to 1 increment at 19:30 • Gate E : Close to 1 increment at 19:45 • Gate C : Close to 1 increment at 20:00	Directive	LVB
	6:00 PM	Situation Report 1800 Friday 07/01/2011 <u>Rainfall</u> - Since 0900 Friday, there has been widespread 20 to 40mm throughout North Pine, Somerset and Wivenhoe catchments with isolated higher totals of 70mm in the upper reaches of the Brisbane R. - Advice from BoM indicates that SE Qld can expect further high rainfall totals over the next 4 days. Saturday: Rain light at times 15-50mm with higher falls along the coast Sunday: Widespread rain with totals between 50-100mm Monday: Widespread rain again with totals between 50-100mm Tuesday: Rain easing with totals between 25-50mm Given the saturated conditions of the catchments, significant inflows to Seqwater dams will be generated, especially following the forecast rainfall on Sunday/Monday. <u>North Pine (Full Supply Level 39.60 m AHD)</u> - At 1700 Friday, North Pine currently has 5 gates open releasing runoff from rain on Wed/Thursday. Given the very high likelihood of significant runoff during the next 4 days, gates will be kept open to match inflows over the next few days, rather than opening and	Situation Report	TM
		<u>Wivenhoe (Full Supply Level 67.00 m AHD)</u> - At 1700 Friday, Wivenhoe Dam was 68.10 m AHD and rising steadily with one gate open to 1.5 metres and releasing about 168m ³ /s. River levels upstream of Wivenhoe Dam were rising again, generating further inflow to the dam. It is intended to ramp up the release from Wivenhoe to about 1,200m ³ /s during the next 18 hours. However, given the high likelihood of significant inflows in the next week, this may be increased later on the weekend. - Since the commencement of the event on 02/01/2011, approximately 140,000ML has flowed into Wivenhoe Dam with a further 160,000ML expected (including Somerset release) based on the recorded rainfall to date. Approximately 24,000ML has been released from Wivenhoe via the hydro and regulator at about 50m ³ /s. <u>Impacts downstream of Wivenhoe</u> - The projected Wivenhoe release of 1,200m ³ /s combined with Lockyer flows and local runoff will mean that all crossings downstream of Wivenhoe (Twin Bridges, Savages Crossing, Burtons Bridge, Kholo Bridge and Colleges Crossing) will be adversely	Situation Report	

DATE	TIME	ACTION	CATEGORY	INITIALS
	9:53 PM	Issued Wivenhoe Directive #2. • 07/01/2011 22:00 Open Gate 2 from 0.0 metres to 0.5 metres • 07/01/2011 23:00 Open Gate 4 from 0.0 metres to 0.5 metres • 08/01/2011 00:00 Open Gate 2 from 0.5 metres to 1.0 metres • 08/01/2011 01:00 Open Gate 4 from 0.5 metres to 1.0 metres • 08/01/2011 02:00 Open Gate 1 from 0.0 metres to 0.5 metres • 08/01/2011 03:00 Open Gate 5 from 0.0 metres to 0.5 metres • 08/01/2011 04:00 Open Gate 2 from 1.0 metres to 1.5 metres	Directive	MT
Saturday, 8 January 2011	4:55 AM	Issued Wivenhoe Directive #3. • 08/01/2011 05:00 Open Gate 4 from 1.0 metres to 1.5 metres • 08/01/2011 06:00 Open Gate 1 from 0.5 metres to 1.0 metres • 08/01/2011 07:00 Open Gate 5 from 0.5 metres to 1.0 metres • 08/01/2011 08:00 Open Gate 3 from 3.5 metres to 4.0 metres	Directive	MT
	7:55 AM	Agg Dagan from Somerset Dam rang enquiring on Somerset's strategy. RA advised possibly opening a gate later today.	Correspondence	AN
	8:00 AM	Issued Wivenhoe Directive #4. • 08/01/2011 09:00 Open Gate 2 from 1.5 metres to 2.0 metres • 08/01/2011 10:00 Open Gate 4 from 1.5 metres to 2.0 metres • 08/01/2011 11:00 Open Gate 1 from 1.0 metres to 1.5 metres • 08/01/2011 12:00 Open Gate 5 from 1.0 metres to 1.5 metres • 08/01/2011 13:00 Open Gate 2 from 2.0 metres to 2.5 metres • 08/01/2011 14:00 Open Gate 4 from 2.0 metres to 2.5 metres	Directive	AN
	8:10 AM	RA advised Matthew O'Reilly (Wivenhoe Dam) on directive #4 and discussed strategy.	Correspondence	AN
	8:20 AM	RA rang Brett Schultz (North Pine Dam) and advised on strategy.	Correspondence	AN
	9:00 AM	SDWD Model Updated - SDWD-201101080900.xls	Model Run	JW
	9:00 AM	Agg Dagan (Somerset Dam) rang to advise he is going into Kilcoy to see the treatment plant and will be off-site for a couple of hours.	Correspondence	AN
	10:00 AM	NPD model updated - NPD-201101081000.xls	Model Run	JW
	10:50 AM	Rob Drury rang. RA advised current status and strategy.	Correspondence	AN
	11:30 AM	Issued Somerset Directive #3. • Please open Sluice M to 100% at 12:00.	Directive	AN
	11:30 AM	Ken Morris (BCC) rang asking about combined flows down the Brisbane River (Wivenhoe, Warrill Creek and Bremer River). AN advised that at this stage flows would not exceed 1500m3/sec.	Correspondence	AN
	3:00 PM	NPD model updated - NPD-201101081500.xls	Correspondence	
	3:00 PM	SDWD Model Updated - SDWD-201101081500.xls, SDWD-201101081500-Forecast72hr.xls	Model Run	JW
Sunday, 9 January 2011	12:00 AM	Issued North Pine Directive #4. • Gate B : Close to 0 increments at 00:30 • Gate D : Close to 0 increment at 00:45	Directive	NGA
	1:00 AM	Issued Wivenhoe Directive #5. • Open Gate 3 from 4.0 metres to 4.5 metres	Directive	NGA
	4:30 AM	Issued Wivenhoe Directive #6. • Open Gate 1 from 1.5 metres to 2.0 metres	Directive	NGA

DATE	TIME	ACTION	CATEGORY	INITIALS
	6:15 AM	<p>FOC Situation Report at 06:00 on Sunday 9 January 2011</p> <p><u>Rainfall</u> Catchment average rainfall for the past 12 hours is; North Pine Dam (less than 10 mm); Somerset Dam (40 mm); Wivenhoe Dam (less than 10 mm). The bulk of the rain that has fallen in the Somerset Dam catchment has occurred in the last two hours, with recorded falls exceeding 60mm in some areas. The BOM forecast for the next seven days issued at 0450 this morning is:-</p> <p>Sunday: Rain periods. Monday: Rain periods. Tuesday: Rain periods. Wednesday: A few showers. Thursday: A shower or two. Friday: A shower or two. Saturday: Mostly fine.</p> <p>A severe weather warning remains current for heavy rainfall in the dam catchment areas. The dam catchments are relatively saturated and significant inflows will be generated if the forecast rainfall eventuates.</p> <p><u>North Pine Dam (Full Supply Level 39.60 m AHD)</u> The dam level is currently 39.47 m AHD and steady. Two radial gates remain open to release runoff generated from recent rainfall. Based on rainfall forecasts, the radial gates have been kept open in anticipation of further inflows over the next few days. However un</p>	Situation Report	JT
		<p><u>Somerset Dam (Full Supply Level 99.00 m AHD)</u> The dam level is currently falling slowly, with the current level being 100.27m AHD. However the rain that has fallen in the dam catchment over the last two hours (recorded falls exceed 60mm in some areas) will result in significant inflows later today. The current release rate into Wivenhoe Dam is 35,000ML/day. Since the commencement of the event on 02/01/2011 approximately 56,000ML has been released from the dam, with a total of at least 150,000ML to be released based on the currently recorded rainfall. The total release for the event is likely to increase significantly over the next few days based on the current rainfall forecasts. At this stage, releases will continue until at least Tuesday.</p> <p><u>Wivenhoe Dam (Full Supply Level 67.00 m AHD)</u> The dam level is currently falling slowly, with the current level being 68.58m AHD. River levels upstream of the dam are receding, however further inflows will result from any additional rainfall. The current gate operation strategy will maintain flows of around</p>	Situation Report	
	6:50 AM	Rob Drury rang. JT advised Rob on current release strategy based on recent heavy overnight rainfall.	Correspondence	NGA
	7:00 AM	SDWD Model Updated - SDWD-201101090700.xls	Model Run	JW
	8:15 AM	<p>Issued Somerset Directive #4.</p> <ul style="list-style-type: none"> • Please open Sluice K to 100% at 09:00. 	Directive	NGA
	8:40 AM	TM called BoM regarding advice received that widespread rain was expected to continue in the catchment areas over the next 24 - 48 hours.	Correspondence	NGA
	9:00 AM	SDWD Model Updated - SDWD-201101090900.xls	Model Run	JW
	9:00 AM	NPD model updated - NPD-201101090900.xls	Model Run	JW
	10:30 AM	<p>Issued North Pine Directive #5.</p> <ul style="list-style-type: none"> • Gate A : Close to 0 increment at 11:00 	Directive	NGA
	10:30 AM	<p>Issued Wivenhoe Directive #7.</p> <ul style="list-style-type: none"> • Open Gate 5 from 1.5 metres to 2.0 metres 	Directive	NGA
	12:00 PM	SDWD Model Updated - SDWD-201101091200.xls	Model Run	JW
	12:00 PM	RA scheduled meeting of Duty Engineers this afternoon to discuss current situation and forward release strategies.	Correspondence	NGA
	12:30 PM	<p>Issued Somerset Directive #5.</p> <ul style="list-style-type: none"> • Please open Sluice N to 100% at 13:00 • Please open Sluice J to 100% at 14:00 	Directive	NGA
	2:00 PM	SDWD Model Updated - SDWD-201101091400.xls	Model Run	JW
	2:00 PM	NPD model updated - NPD-201101091400.xls	Model Run	JW
	2:30 PM	NA called Agg Dagan (Somerset Dam) and requested status readings be faxed to the FOC on an hourly basis until advised otherwise. Current Somerset lake level is EL 100.54 and rising fast.	Correspondence	NGA

DATE	TIME	ACTION	CATEGORY	INITIALS
	2:42 PM	FOC called Brett Schultz (North Pine Dam) advising of impending gate openings due to recent heavy rainfall and subsequent projected inflows.	Correspondence	NGA
	2:45 PM	Issued North Pine Directive #6. • Gate A: Open to 1 increment at 15:00 • Gate D: Open to 1 increment at 15:15 • Gate B: Open to 1 increment at 15:30	Directive	NGA
	3:00 PM	NPD model updated - NPD-201101091500.xls	Model Run	JW
	3:30 PM	Duty Engineer Conference held at the FOC: Attended by RA, JR, TM with JT on conf phone. At this stage operating at the top end of W1 and the bottom end of W2. Storing approx. 300,000 ML at present (above Wivenhoe) with an additional 500,000 ML expected to flow into the dams from rainfall on the ground. The rainfall system is currently in the N-E part of the catchment and expected to travel south over the next 24-36 hours according to the BoM forecasts. This has the potential to significantly increase flows in Lockyer Ck & the Bremer River which potentially could close Fernvale Bridge and Mt Crosby Bridge and increase the risk of flooding in the Lower Brisbane. Releases from Wivenhoe Dam will be maintained at the current level of ~ 1,400 cumecs. If required, releases from Wivenhoe Dam will be reduced to contain the flow in the Mid-Brisbane to 1,600 cumecs and 3,000 cumecs in the Lower Brisbane. At this stage it is anticipated that levels below 102.5 in Somerset and 72.5 in Wivenhoe can be attained.	Situation Report	NGA
	3:30 PM	Issued North Pine Directive #7. • Gate C: Open to 2 increment at 16:00 • Gate E: Open to 2 increment at 16:15 • Gate A: Open to 2 increment at 16:30	Directive	NGA
	4:00 PM	SDWD Model Updated - SDWD-201101091600.xls	Model Run	JW
	4:15 PM	TM called Tony Jacobs (Somerset RC) advising that the current strategy was to maintain a flow in the Brisbane River such that the Fernvale Bridge and the Mount Crosby Bridge could be kept open. However, future rainfall could well impact on those roads remaining open. Closure next Tuesday is a real possibility at this stage.	Correspondence	NGA
	4:20 PM	Terry Malone phoned Tony Trace (ICC) advising that the current strategy was to maintain flow in the Brisbane River such that the Fernvale Bridge and the Mount Crosby Bridge could be kept open. However, future rainfall could well impact on those roads remaining open. Closure next Tuesday is a real possibility at this stage.	Correspondence	NGA
	4:25 PM	TM called Chris Lavin (BCC). A message was left to phone FOC.	Correspondence	NGA
	4:26 PM	TM called Ken Morris (BCC). A message was left to phone FOC.	Correspondence	NGA
	4:27 PM	Ken Morris returned phone call. Ken was advised by TM that the current strategy was to maintain a flow in the Brisbane River such that the Fernvale Bridge and the Mount Crosby Bridge could be kept open. However, future rainfall could well impact on those roads remaining open. Closure next Tuesday is a real possibility at this stage. Flow in the Lower Brisbane potentially might reach 3,000 cumecs by next Wednesday or Thursday.	Correspondence	NGA
	5:18 PM	NA left a message with Graham Keegan (A/Co-ord) regarding the potential for Fernvale Bridge and Mount Crosby Bridge to be closed, possibly from Tuesday. This may impact on staffing issues for both Wivenhoe and Somerset Dams during this flood event. Request for Graham to contact the FOC ASAP.	Correspondence	NGA
	5:25 PM	Don Carroll (BCC) returned call to TM. TM advised potential for releasing up to 2,500 cumecs by Tuesday. With further heavy rainfall, as forecast, the flow in the Lower Brisbane could increase to 3,000 cumecs with potential for closure of Fernvale Bridge and Mount Crosby Bridge by Thursday (possibly Wednesday). Releases from Wivenhoe are dependant on flows from Lockyer Ck and inflow into Wivenhoe. FOC will continue to update BCC.	Correspondence	NGA
	5:32 PM	Brett Schultz (NPD) phoned the FOC with a manual reading of EL 20.660 at Lake Kurwongbah. Brett noted that should NPD gates be closed in the near future, the Lake Kurwongbah tailwater would impact on Youngs Crossing.	Correspondence	NGA
	5:40 PM	Rob Drury phoned TM for an update on the current situation.	Correspondence	NGA
	5:45 PM	Graham Keegan returned call and NA advised that TM had requested Graham to factor into his staffing roster of Wivenhoe and Somerset Dams the potential for the Fernvale bridge and the Mount Crosby Bridge to be closed from mid-week sometime, depending on the likelihood of further heavy rainfall.	Correspondence	NGA

DATE	TIME	ACTION	CATEGORY	INITIALS
	5:51 PM	<p>Situation Report 1700 Sunday 9/1/2011</p> <p><u>Rainfall</u> Catchment average rainfall for the past 12 hours is; North Pine Dam (60 mm); Somerset Dam (150 mm); Wivenhoe Dam (80 mm). The bulk of the rain that has fallen in the upper reaches of the Stanley and Brisbane Rivers.</p> <p>The BOM rainfall forecast for the next few days is:- Monday: Very heavy rain periods with totals up to 300mm centred around North Pine. Tuesday: Rain periods with totals up to 150mm centred around North Pine. Wednesday: A few showers less than 10mm Thursday: A shower or two. Friday: A shower or two. Saturday: Mostly fine.</p> <p>A severe weather warning remains current for heavy rainfall in the dam catchment areas. The dam catchments are relatively saturated and significant inflows will be generated if the forecast rainfall eventuates.</p> <p><u>North Pine Dam (Full Supply Level 39.60 m AHD)</u> The dam level is currently 39.65 m AHD and rising at 1600. Following the rain in the 9 hours, the number of open gates has been</p>	Situation Report	TM
		<p><u>Somerset Dam (Full Supply Level 99.00 m AHD)</u> - The dam level is 100.75 m AHD and rising quickly. Estimated peak inflow to the dam is about 3,000m³/s. Five sluice gates are open releasing about 1,100m³/s (95,000ML/d) into Wivenhoe Dam. At this stage the dam will reach at least 101.5 during early Tuesday morning. - Since the commencement of the event on 02/01/2011 approximately 80,000ML has been released from the dam, with an event total of at least 320,000ML based on the recorded rainfall to date. The event total is expected to increase significantly due to the forecast rain in the next 24 to 48 hours. At this stage, releases will continue until at least Wednesday.</p> <p><u>Wivenhoe Dam (Full Supply Level 67.00 m AHD)</u> - The dam level is currently rising again, with the current level being 68.70m AHD. Estimated peak inflow to the dam just from the Upper Brisbane R is about 5,000m³/s and, at this stage, the dam will reach at least 72.5 m AHD during Wednesday morning. River levels upstream of the dam are rising quickly with significant inflow being generated from the intense heavy rainfall. The current gate</p>	Situation Report	
	5:58 PM	TM called Jeff Perkins (BoM) to discuss Wivenhoe Dam's release strategy i.e. Major bridge open strategy Vs increased inflow into Wivenhoe resulting from current heavy rainfall. Situation will become clearer in 24 hours time.	Correspondence	NGA
	6:00 PM	SDWD Model Updated - SDWD-201101091800.xls	Model Run	JW
	6:00 PM	NPD model updated - NPD-201101091800.xls	Model Run	JW
	6:35 PM	The caretaker from the house at the Colleges Crossing Reserve rang FOC to enquire about predicted flood height at the Colleges Crossing Bridge. TM referred him to Tony Trace (ICC) for an update on flood information affecting the Ipswich area. Advised no change in Wivenhoe releases at this stage and the future options were presently unknown.	Correspondence	NGA
	7:00 PM	SDWD Model Updated - SDWD-201101091900.xls, SDWD-201101091900norain.xls, SDWD-201101091900withrain.xls	Model Run	JW
	7:10 PM	FOC called Tony Jacobs (SRC) advising him that high releases from Wivenhoe (3000 cumecs) are expected to be necessary in view of heavy rain over the last 3 hours.	Correspondence	BS
	7:15 PM	FOC called Peter Burrows (Seqwater) advising him that high rainfall is expected overnight and releases from Wivenhoe causing damaging flooding are likely to be necessary.	Correspondence	BS
	7:15 PM	FOC called Peter Allen advising him that FOC is now looking at much larger flows and will have to ramp up releases to around 3000 cumecs as by as early as midnight which is likely to have flooding impacts on low-lying areas of Brisbane.	Correspondence	BS
	7:20 PM	TM called Don Carroll (BCC) advising him of potential for high releases sooner than previously expected.	Correspondence	BS
	7:25 PM	Mal Lane (North Pine Dam) called to advise dam level is at 39.82mAHD, 3 gates are at increment 2 and two are at increment 1. The two at increment 1 are currently being raised to increment 2 (next few minutes).	Correspondence	BS
	7:30 PM	<p>Issued North Pine Directive #8.</p> <ul style="list-style-type: none"> • Open Gate B to 2 increments 19:45 • Open Gate D to 2 increments at 20:00 	Directive	BS

DATE	TIME	ACTION	CATEGORY	INITIALS
	8:00 PM	SDWD Model Updated - SDWD-201101092000withnorain.xls	Model Run	JW
	8:05 PM	RA called Shane Watson (North Pine Dam) to confirm last directive is completed. All gates at increment 2.	Correspondence	BS
	8:30 PM	Darryl Hickey (ICC) returned call and spoke to JR. He was informed of current situation and the likelihood of high releases tomorrow causing flood damage.	Correspondence	BS
	8:50 PM	RA called Ken Morris (BCC) to request copy of flood damages curve from 2007 study. Ken will send a copy tomorrow.	Correspondence	RA
	8:55 PM	Ken Morris called back and spoke with JR. Confirmed BCC mobilisation triggers need to be in place. Status report is in preparation and will be emailed out shortly.	Correspondence	BS
	9:00 PM	Issued North Pine Directive #9.	Directive	BS
	9:04 PM	<p>Situation Report 2100-9/01/2011</p> <p><u>Rainfall</u></p> <ul style="list-style-type: none"> - Very heavy rainfall has been recorded in the upper reaches of the Brisbane and Stanley in the last 6 hours with totals up 100 to 140mm. Totals for the last 24 hours range from 100 to 300mm. - Rainfall of similar magnitudes is expected in the 12 to 24 hours, especially around the Bremer/Warrill catchments as the system tracks south. - A severe weather warning remains current for heavy rainfall in the dam catchment areas. <p><u>Somerset Dam (Full Supply Level 99.00 m AHD)</u></p> <ul style="list-style-type: none"> - The dam level is 101.68 m AHD (about 500,000ML currently in storage) and rising quickly. Peak inflow to the dam is estimated to be about 4,000 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 will reach at least 103.5 early Tuesday morning which will adversely impact areas around Kilcoy. - Since the commencement of the event on 02/01/2011 approximately 100,000ML has been released from the dam into Wivenhoe. 	Situation Report	TM
		<p><u>Wivenhoe Dam (Full Supply Level 67.00 m AHD)</u></p> <ul style="list-style-type: none"> - River levels upstream of the dam are rising quickly with significant inflow being generated from the intense heavy rainfall. Flows in the Brisbane River at Gregor's Ck have already reached 6,700m3/s and the river is still rising. - The dam level is rising again, with the current level being 69.10m AHD (1,410,000ML with about 300,00 of flood storage). Estimated peak inflow to the dam just from the Upper Brisbane R alone may reach as high as 7,500m3/s and, at this stage, the dam will reach at least 73.0 m AHD during Tuesday morning. Given the rapid increase in inflow volumes, it will be necessary to increase the release from Wivenhoe 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. This is below the limit of urban damages in the City reaches. - The current release rate from Wivenhoe Dam is 1,400m3/s (120,000ML/day). Gate opening will start to be increased from noon 	Situation Report	
	9:10 PM	Rob Drury called and spoke with RA. Rob confirmed that releases will need to be ramped up from current 1400 cumecs to 2500 cumecs which will cause flooding in low lying areas of Brisbane. Brisbane flood information centre has not yet been mobilised. Somerset RC has no DTMR A/H contacts and will be contacting them in the morning. Rob will locate DTMR contacts. Confirmed volumes getting close to 1974 levels. Confirmed situation report has gone out.	Correspondence	BS
	9:15 PM	Geoff Perkins (BoM) called and spoke with TM. They discussed on rainfall expectations and flood warning requirements for Brisbane. Bremer/Warrill situation being monitored. Actual and projected flows sent to Geoff.	Correspondence	BS
	9:20 PM	Tony Trace (ICC) spoke with RA. Emailing DTMR A/H contact to floodroom. Kiosk caretaker at Colleges Crossing is being evacuated. Contact Number for DTMR: Ron Hemley 0439 898337.	Correspondence	BS
	10:00 PM	SDWD Model Updated - SDWD-201101092200withnorain.xls, SDWD-201101092200-Forecast24hr.xls	Model Run	JW
	10:00 PM	NPD model updated - NPD-201101092200.xls	Model Run	JW
	10:00 PM	JR called Wivenhoe operator (Doug Grigg) and confirmed current flooding expectations based on rainfall predictions and expected impacts.	Correspondence	BS
	10:15 PM	FOC called Tony Jacobs (SRC). A situation update was provided. Fernvale Bridge closure likely to be required in view of probable releases from Somerset to Wivenhoe.	Correspondence	BS
	10:20 PM	Rob Drury called and spoke with RA. A teleconference with Water Grid Manager and DERM was completed. Explained 9:00pm situation report. Water Grid Manager will be distributing media release in the morning regarding closure of bridges.	Correspondence	BS
	10:30 PM	Brett Myatt (Mt Crosby WTP) called and spoke with RA. He was concerned the guardrails need to be taken off bridge before bridge goes over. RA recommended getting the rails straight off in view of increasing flow expectations overnight. Flow expected to get to 2000ML by morning.	Correspondence	BS
	10:30 PM	JR called Wivenhoe Dam operator (Doug Grigg) requesting for a visual inspection of Fernvale Bridge.	Correspondence	BS

DATE	TIME	ACTION	CATEGORY	INITIALS
	10:40 PM	Doug Grigg (Wivenhoe Dam) called discussed Fernvale Bridge situation with JR. Water was lapping the bridge girders.	Correspondence	BS
	10:45 PM	Rob Drury called and spoke with RA. Rob Drury will be contacting Dan Spiller to confirm closure of Mt Crosby Weir Bridge. Police are on site.	Correspondence	BS
	11:20 PM	JR called Tony Trace (ICC) and left message regarding rates of rise at Mt Crosby. Bridge will be inundated within the next couple of hours.	Correspondence	BS
	11:25 PM	JR called Ross Drabble (ICC) regarding rates of rise at Mt Crosby (approx 200 mm from going over) - will be inundated within the next couple of hours. Confirmed more rain is on the way and releases will need to be increased.	Correspondence	BS
	11:25 PM	RA spoke with Doug Grigg (Wivenhoe Dam). Water is up to the centreline of the Chine Gully approach to Fernvale Bridge. Esk police are on site and are considering placing road closure signs in Fernvale. Rob Titmarsh and Darren Valley (operators living in Fernvale) will be mobilised to the dam by police prior to closure.	Correspondence	BS
	11:30 PM	JR called Tony Jacobs (SRC) and left message advising of situation.	Correspondence	BS
	11:35 PM	RA called Ron Hemley (DTMR) and left message regarding current road closure situation.	Correspondence	BS
	11:35 PM	JR called Andy Bickerton (SRC) and left message for call to be returned re Fernvale Bridge situation.	Correspondence	BS
	11:38 PM	JR called Robert Bain (CEO SRC) and left message regarding Fernvale Bridge situation and requested call be returned ASAP.	Correspondence	BS
	11:40 PM	Andy Bickerton (SRC) called back and spoke with JR. JR confirmed the high flow levels and anticipated further level rises will impacts road crossings. Fernvale Bridge was about to go out. Informed of the levels and inflows to Wivenhoe and Somerset and the expectation for more rain.	Correspondence	BS
Monday, 10 January 2011	12:00 AM	Andy Bickerton called again and spoke with JR. JR confirmed police were on site at Fernvale Bridge and were contemplating road closure signs at Fernvale. Confirmed message has been left with DTMR but call not yet returned.	Correspondence	BS
	12:15 AM	Brett Myatt (Mt Crosby WTP) called to confirm Mt Crosby Weir road is closed (call taken by Bill Stephens). Confirmed that ICC has been notified and message left with DTMR.	Correspondence	BS
	12:45 AM	Ken Morris (BCC) called and spoke with JR. Ken indicated that 3500 cumecs is the damaging flow level for Brisbane urban areas. The manual documents 4000 cumecs as the damaging level. JR undertook to take this into consideration when preparing the current situation report, and would not refer to damage levels.	Correspondence	BS
	12:55 AM	JR called Rob Drury to discuss Ken's view on damaging flow. JR confirmed that if flows were kept below 3500 the fuse plug would be triggered. Agreed that situation reports will not allude to damage levels - the councils can make decisions on what to report in this regard.	Correspondence	BS
	1:00 AM	SDWD Model Updated - SDWD-201101100100withnorain.xls	Model Run	JW
	1:00 AM	RA called Ray Ballinger (Somerset Dam) regarding purported dam stability issues (via Tony Trace - two reports received). Ray confirmed that inspection had revealed no issues.	Correspondence	BS
	1:14 AM	FOC Situation Report at 01:00 hrs on Monday 10 January 2011 <u>Rainfall</u> - Very heavy rainfall has been recorded in the Upper Brisbane and Stanley Rivers in the last 12 hours with totals up 100 to 240mm. Totals for the last 24 hours range from 100 to 300mm. - 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. <u>North Pine Dam (Full Supply Level 39.60 m AHD)</u> - The dam level was 39.95 m and steady. Five gates are open releasing 445 m3/s. The inflow into the dam since the commencement of the event is 42,000 ML. Estimated event volume is 57,000 ML assuming no further rainfall. Gate operations will continue until at least Tuesday 11 January 2011. <u>Somerset Dam (Full Supply Level 99.00 m AHD)</u> - The dam level is 102.22 m AHD and rising quickly (storing 157,000 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 will reach at least 103.5 on Monday afternoon. - Since the commencement of the event on 02/01/2011 approximately 115,000ML has been released from the dam into Wivenhoe, with	Situation Report	JR

DATE	TIME	ACTION	CATEGORY	INITIALS
		<p><u>Wivenhoe Dam (Full Supply Level 67.00 m AHD)</u></p> <ul style="list-style-type: none"> - River levels upstream of the dam are rising quickly with significant inflow being generated from the intense heavy rainfall. Flows in the Brisbane River at Gregor's Ck have already reached 7,350m³/s and the river has just peaked at 23:00 on Sunday 9 January. - The dam level is rising quickly, with the current level being 69.60m AHD (storing 301,000 ML). Estimated peak inflow to the dam just from the Upper Brisbane R alone may reach as high as 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 will be necessary 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. - Fernvale Bridge approaches and Mt Crosby Weir Bridge have been inundated and both bridges are now closed or are in the process of being closed. - The current release rate from Wivenhoe Dam is 1,400m³/s (120,000ML/day). Gate opening will start to be increased during early M 	Situation Report	
	2:00 AM	<p>Issued Wivenhoe Directive #9.</p> <ul style="list-style-type: none"> • Open Gate 1 from 2.0 metres To 2.5 metres At 02:00 • Open Gate 5 from 2.0 metres To 2.5 metres At 03:00 • Open Gate 2 from 2.5 metres To 3.0 metres At 04:00 • Open Gate 4 from 2.5 metres To 3.0 metres At 05:00 • Open Gate 2 from 3.0 metres To 3.5 metres At 06:00 	Directive	BS
	3:00 AM	SDWD Model Updated - SDWD-201101100300withnorain.xls	Model Run	JW
	3:00 AM	NPD model updated - NPD-201101100300.xls	Model Run	JW
	4:10 AM	JR discussed Wivenhoe status and release strategy with Doug Grigg.	Correspondence	BS
	5:00 AM	SDWD Model Updated - SDWD-201101100500withnorain.xls	Model Run	JW
	5:00 AM	Graham Francis called and discussed Somerset situation with RA.	Correspondence	BS
	5:00 AM	NPD model updated -NPD-201101100500.xls	Model Run	JW
	5:05 AM	Rob Drury called and received situation update from JR.	Correspondence	BS
	5:20 AM	RA called BoM regarding next forecast update - due at 9:00 am.	Correspondence	BS
	6:00 AM	Send out situation report for this morning.	Correspondence	LVB
	6:30 AM	<p>FOC Situation Report at 06:00 on Monday 10 January 2011</p> <p><u>Rainfall</u></p> <ul style="list-style-type: none"> - 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. <p><u>North Pine Dam (Full Supply Level 39.60 m AHD)</u></p> <ul style="list-style-type: none"> - 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. <p><u>Somerset Dam (Full Supply Level 99.00 m AHD)</u></p> <ul style="list-style-type: none"> - 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 - Since the commencement of the event on 02/01/2011 approximately 142,000ML has been released from the dam into Wivenhoe, wit 	Situation Report	JR

DATE	TIME	ACTION	CATEGORY	INITIALS
		<p><u>Wivenhoe Dam (Full Supply Level 67.00 m AHD)</u></p> <p>- 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.</p> <p>- 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.</p> <p>- 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.</p>	Situation Report	
	6:30 AM	<p>Issued Wivenhoe Directive #9.</p> <ul style="list-style-type: none"> • Open Gate 4 from 3.0 metres To 3.5 metres At 07:00 • Open Gate 1 from 2.5 metres To 3.0 metres At 08:00 • Open Gate 5 from 2.5 metres To 3.0 metres At 09:00 • Open Gate 2 from 3.5 metres To 4.0 metres At 10:00 • Open Gate 4 from 3.5 metres To 4.0 metres At 11:00 	Directive	LVB
	7:40 AM	Talked to BoM - we are in general agreement about current flows in the Brisbane River.	Correspondence	LVB
	8:30 AM	FOC left a message for Ken Morris (BCC) to call back.	Correspondence	LVB
	8:30 AM	<p>Issued Wivenhoe Directive #10.</p> <ul style="list-style-type: none"> • Open Gate 4 from 3.0 metres To 3.5 metres at 07:00 • Open Gate 1 from 2.5 metres To 3.0 metres at 08:00 • Open Gate 5 from 2.5 metres To 3.0 metres at 09:00 	Directive	LVB
	8:38 AM	Talked to Peter Baddley (BOM) to discuss our planned strategy i.e to maintain gate openings for the next 24 hrs. This increases flood storage by 75 000ML which is equivalent to 0.2m rise and limits flows in the Brisbane to 3 000 m ³ /s this provides a buffer for potential runoff for the next 24 hrs.	Correspondence	LVB
	9:38 AM	Conference call with Ken Morris (BCC) - informed them that release from Wivenhoe will be maintained at 2000m ³ /s for the next 24 hrs. This will be revised in 24 hrs. The strategy is to limit the flows to 3000 - 3500m ³ /s. At 3500m ³ /s about 322 (the whole property) will be submerged and about 7000 properties will be affected somehow damage bill \$7mil). If the rainfall in the Bremmer and Lockyer increases substantially - it is likely the flows from these catchments can peak at 1000m ³ /s (on top of Wivenhoe release)	Correspondence	LVB
	10:08 AM	Received QPF - 100mm in Brisbane and 150mm North Pine catchment	Other	LVB
	10:15 AM	Received phone call from Mike Shetland (EMQ) and Supt Alistair Dawson - Disaster Coordinator for this District - gave them the same information as what we gave Ken Morris before.	Correspondence	LVB
	10:46 AM	Called Jimmy Stewart (BoM) to inform that TM can do the model and with 600m ³ /s in the Bremmer the flows in Brisbane will go up to 3600m ³ /s. BoM will discuss with BCC.	Correspondence	LVB
	11:14 AM	Tony Trace (ICC) called to clarify our strategy. Gave him the same info as above.	Correspondence	LVB
	12:00 PM	Send out second situation report for today	Situation Report	LVB
	1:00 PM	SDWD Model Updated - SDWD-201101101300withnorain.xls	Model Run	JW

DATE	TIME	ACTION	CATEGORY	INITIALS
	2:58 PM	<p>FOC Situation Report at 12:00 on Monday 10 January 2011</p> <p><u>Rainfall</u> Significant rainfall has fallen in the Wivenhoe Dam catchment over the last 3 hours, with falls exceeding 100mm. This rainfall will significantly increase inflows into the dam. A severe weather warning remains current for heavy rainfall in the dam catchment areas. The QPF issued by BOM at 10:00 estimates rainfalls for the 24 hours to 10:00 Tuesday as North Pine Dam (75mm to 150mm); Wivenhoe/Somerset Dam Catchments (50mm – 100mm). Potentially significant rain moving towards the dam catchments is currently evident on the BOM radar.</p> <p><u>Somerset Dam (Full Supply Level 99.00 m AHD)</u> The dam level is 103.41m AHD and rising. Peak inflow to the dam is estimated to be about 4,200 m3/s. Five sluice gates are open releasing about 1,100m3/s (95,000ML/day) into Wivenhoe Dam. At this stage the dam lake level will reach about 103.5m AHD on Monday afternoon. Areas around Kilcoy will continue to be adversely affected.</p> <p><u>Wivenhoe Dam (Full Supply Level 67.00 m AHD)</u> - The dam level is 72.41m AHD and rising quickly. The rainfall experienced over the last 2 to 3 hours will result in significant further in - Five radial gates are currently open at the dam releasing about 2,000m3/s into the Brisbane River and this will need to be increased - The objective for dam operations is currently to minimise the impact of urban flooding in areas downstream of the dam and to keep r</p> <p><u>Impacts downstream of Wivenhoe Dam</u> - The projected Wivenhoe Dam releases combined with Lockyer Creek flows and local runoff will mean that all crossings downstream - Water levels in the lower Brisbane River will be impacted by the combined flows of Lockyer Creek, Bremer River, local runoff and rel</p> <p><u>Outlook</u> Heavy rainfall continues throughout South East Queensland and the situation could deteriorate rapidly over the next 24 hours. The fl</p>	Situation Report	TM
	12:02 PM	Spoke with Peter Borrows (Seqwater) to answer elaborate on Situation Report and inform him of large rainfalls currently occurring in the Wivenhoe catchment.	Correspondence	LVB
	12:33 PM	Called BCC twice. No answer, so left messages.	Correspondence	LVB
	12:36 PM	Talked to Tony Trace (ICC) informed him that we are moving strategy from urban damage control to dam safety priority	Correspondence	LVB
	12:41 PM	NPD operator called to inform FOC the level is dropping. Instructed them not to close gates - heavy rain fell in catchment.	Correspondence	LVB
	2:00 PM	Send out third situation report for today.	Correspondence	LVB
	2:30 PM	Called BCC 3 times before getting through to Flood Information Centre (FIC). Discussed latest strategy with them i.e. changing from "Flood Mitigation" to "Dam Safety". We will start opening Wivenhoe gates from 15:00.	Correspondence	LVB
	3:00 PM	Called Disaster Coordinator, Ian Stewart @ [REDACTED] No answer.	Correspondence	LVB
	4:00 PM	NPD model updated - NPD-201101101600.xls	Model Run	JW
	4:00 PM	<p>Issued Wivenhoe Directive #11.</p> <ul style="list-style-type: none"> • Open Gate 2 to 4.0 m at 15:00 • Open Gate 4 to 4.0 m at 15:30 • Open Gate 3 to 5.0 m at 16:00 • Open Gate 1 to 3.5 m at 16:30 • Open Gate 5 to 3.5 m at 17:00 • Open Gate 2 to 4.5 m at 17:30 • Open Gate 4 to 4.5 m at 18:00 • Open Gate 1 to 4.0 m at 18:30 • Open Gate 5 to 4.0 m at 19:00 • Open Gate 1 to 4.5 m at 19:30 	Directive	LVB
	3:15 PM	Had conference call with BoM. They agree with FCC on model discharge results. However, BoM included 6hrs of additional rain which takes the discharge to 4600m3/s	Correspondence	LVB

DATE	TIME	ACTION	CATEGORY	INITIALS
	4:09 PM	Issued North Pine Directive #10. • Gate E : Close to Increment 4. • Gate C : Close to Increment 4.	Directive	LVB
	4:09 PM	TM spoke to a police officer about Crestbrook Dam - advising that FOC does not manage Crestbrook but gave him a contact at Toowoomba RC	Correspondence	LVB
	5:00 PM	Issued North Pine Directive #11. • Gate B : Close to Increment 3. • Gate D : Close to Increment 3. • Gate A : Close to Increment 3. • Gate E : Close to Increment 3.	Directive	LVB
	5:00 PM	SDWD Model Updated - SDWD-201101101700withnorain.xls, SDWD-201101101700with50mmrain.xls	Model Run	JW
	5:09 PM	Agg (Somerset Dam) phoned and reported water from Wivenhoe in getting into the hydro	Correspondence	LVB
		FOC Situation Report at 18:00 on Monday 10 January 2011 <u>Rainfall</u> - Only minor rainfall has been experienced in the North Pine Dam and Somerset Dam catchments with a catchment averages of less than 20mm. - However, significant rain has fallen in the Wivenhoe Dam catchment over the last 6 hours, with isolated falls exceeding 100mm. This rainfall has significantly increase inflows into the dam. A severe weather warning remains current for heavy rainfall in the dam catchment areas. The QPF issued by BOM at 10:00 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). Potentially significant rain moving towards the dam catchments is currently evident on the BOM radar. <u>North Pine Dam (Full Supply Level 39.60 m AHD)</u> - The dam level is 39.84m AHD and falling slowly (storing 9,000ML above FSL). Five gates are open and releasing 362 m3/s. The inflow into the dam since the commencement of the event is 72,000 ML. Estimated event volume is 84,000 ML assuming no further rainfall. Releases from the dam will continue until at least Wednesday 12 January 2011.	Situation Report	TM
	6:06 PM	Get weather update from BoM - the forecast now is - still more of the same of what we had today.	Other	LVB
	6:43 PM	FOC Situation Report at 18:00 on Monday 10 January 2011 <u>Rainfall</u> - Only minor rainfall has been experienced in the North Pine Dam and Somerset Dam catchments with a catchment averages of less than 20mm. - However, significant rain has fallen in the Wivenhoe Dam catchment over the last 6 hours, with isolated falls exceeding 100mm. This rainfall has significantly increase inflows into the dam. A severe weather warning remains current for heavy rainfall in the dam catchment areas. The QPF issued by BOM at 10:00 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). Potentially significant rain moving towards the dam catchments is currently evident on the BOM radar. <u>North Pine Dam (Full Supply Level 39.60 m AHD)</u> - The dam level is 39.84m AHD and falling slowly (storing 9,000ML above FSL). Five gates are open and releasing 362 m3/s. The inflow into the dam since the commencement of the event is 72,000 ML. Estimated event volume is 84,000 ML assuming no further rainfall. Releases from the dam will continue until at least Wednesday 12 January 2011.	Situation Report	TM

DATE	TIME	ACTION	CATEGORY	INITIALS
		<p>Wivenhoe Dam (Full Supply Level 67.00 m AHD)</p> <ul style="list-style-type: none"> - The dam level is 72.92m AHD and rising quickly. Releases from the dam have been increased over the last 3 hours in accordance with Flood Mitigation procedures and to ensure that a fuse plug is not initiated. The initiation of a fuse plug will result in a rapid uncontrolled outflow from the dam of 2,000m³/s being added to the gate release outflow. Outflows into the Brisbane River from both Lockyer Creek and the Bremer River are also increasing. The flash flooding experienced in the upper areas of Lockyer Creek have been examined and are not expected to significantly increase Brisbane River flows above the current projection of 4000m³/s at Moggill. - Five radial gates are currently open at the dam releasing about 2,400m³/s into the Brisbane River and this will need to be increased steadily to an outflow of 2,800m³/s. At this stage, the dam will reach about 73.8m AHD during Tuesday morning. - The objective for dam operations is currently to minimise the impact of urban flooding in areas downstream of the dam and to keep river flows in the lower Brisbane River below 4,000m³/s if possible. This is significantly less than the current estimated combined pre <p>Impacts downstream of Wivenhoe Dam</p> <p>The projected Wivenhoe Dam releases combined with Lockyer Creek flows and local runoff will mean that all crossings downstream of</p> <ul style="list-style-type: none"> - Water levels in the lower Brisbane River will be impacted by the combined flows of Lockyer Creek, Bremer River, local runoff and rel <p>Outlook</p> <p>Heavy rainfall continues throughout South East Queensland and the situation could deteriorate rapidly over the next 24 hours. The fl</p>	Situation Report	
	6:45 PM	Brett Schultz (North Pine Dam) raised concerns with school groups using Lake Kurwongbah for rowing exercise while water is running over the spillway at 500mm. He was referred to Rangers.	Correspondence	LVB
	7:20 PM	<p>Issued North Pine Directive #12.</p> <ul style="list-style-type: none"> • Gate C : Close to increment 3 • Gate B : Close to Increment 2. • Gate D : Close to Increment 2. • Gate A : Close to Increment 2. • Gate E : Close to Increment 2 • Gate C : Close to increment 2. 	Directive	JW
	7:30 PM	Agg Dagan (Somerset) called to inform that Somerset hydro is inundated with water. Agg believes he has located source of leak, has tightened seals to prevent further leakage. Agg also noted that there is oil in the water.	Correspondence	JW
	8:00 PM	SDWD Model Updated - SDWD-201101102000withnorain.xls, SDWD-201101102000-Lockyer.xls, SDWD-201101102000-TMinflows.xls	Model Run	JW
	20:00 PM	Peter Baddiley (BoM) called to advise of situation regarding flows in Lockyer. Estimated very heavy localised rainfall (eg. 600mm in few hours) on Toowoomba escarpment to cause observed flood flooding. Will monitor via Glenore Grove gauging station.	Correspondence	JW
	20:45 PM	Brett Myatt (Seqwater Mt Crosby WTP) called to get situation update. Advised that at 20m there will be issues at Mt Crosby WTP. FOC to advise Brett if likely to reach that level.	Correspondence	JW
	21:00 PM	Spoke to Peter Allan regarding strategies for reducing Wivenhoe release to mitigate latest event in Lockyer. Peter endorsed variation to manual to operate at minimum gate settings to create gap to allow peak of flash flood to pass. Also endorsed concept allowing Wivenhoe HW to rise above 74 m AHD briefly.	Correspondence	JW
	21:30 PM	Provided Boyd Wilson (ICC) with situation update.	Correspondence	JW
	21:30 PM	<p>Issued North Pine Directive #13.</p> <ul style="list-style-type: none"> • Gate B : Close to Increment 1. • Gate D : Close to Increment 1. 	Directive	JW

DATE	TIME	ACTION	CATEGORY	INITIALS
	21:45 PM	Issued North Pine Directive #14. • Gate A : Close to Increment 1 when level reaches 39.775 m • Gate E : Close to Increment 1 when level reaches 39.760 m	Directive	JW
	20:20 PM	Spoke to Peter Baddiley (BoM) regarding reducing Wivenhoe release to accommodate peak of Lockyer flash flood.	Correspondence	JW
	11:20 PM	Spoke to Rob Drury to give situation update. Rob agreed that if possible to reduce flow from Wivenhoe to accommodate Lockyer flash flood peak.	Correspondence	JW
	11:56 PM	<p>FOC Situation Report at 00:00 Tuesday 11 January 2011</p> <p><u>Rainfall</u></p> <p>- Rainfall continues in the North Pine Dam, Somerset Dam and Wivenhoe Dam catchments with falls of generally less than 20mm since 18:00 today. However, some isolated falls in the Upper Brisbane River of up to 110 mm have been recorded at Monsildale in this time. This rainfall will increase inflows into the dam.</p> <p>- 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).</p> <p><u>North Pine Dam (Full Supply Level 39.60 m AHD)</u></p> <p>The dam level is 39.80m AHD and falling slowly (storing 4,400ML above FSL). Five gates are open, releasing 153 m3/s. The inflow into the dam since the commencement of the event is 74,000 ML. Estimated event volume is 84,000 ML assuming no further rainfall. Releases from the dam will continue until at least Wednesday 12 January 2011.</p> <p><u>Somerset Dam (Full Supply Level 99.00 m AHD)</u></p> <p>The dam level is 103.40m AHD and falling slowly. Peak inflow to the dam is estimated to be about 4,200 m3/s. Total discharge into V</p>	Situation Report	RA

DATE	TIME	ACTION	CATEGORY	INITIALS
		<p><u>Wivenhoe Dam (Full Supply Level 67.00 m AHD)</u></p> <ul style="list-style-type: none"> - The dam level is 73.22m AHD and rising at about 50 mm/hour. Releases from the dam have been held at a rate of 2,750 m3/s since 19:30 hours. 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 very significant. Flood levels in the Lockyer Creek catchment will exceed maximum recorded levels in some stations in the upper catchment. This flow may 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 about 73.8m AHD during Tuesday afternoon. - The objective for dam operations is currently to minimise the impact of urban flooding in areas downstream of the dam and to keep river flows in the lower Brisbane River below 4,000m3/s if possible. This is significantly less than the current estimated combined pre <p><u>Impacts downstream of Wivenhoe Dam</u></p> <ul style="list-style-type: none"> - The projected Wivenhoe Dam releases combined with Lockyer Creek flows and local runoff will mean that all crossings downstream - Water levels in the lower Brisbane River will be impacted by the combined flows of Lockyer Creek, Bremer River, local runoff and re - The BoM will provide further information regarding the magnitude of the flash flood event occurring in Lockyer Creek early Tuesday n <p><u>Outlook</u></p> <p>Heavy rainfall continues throughout South East Queensland and the situation could deteriorate over the next 24 hours. The flood ope</p>	Situation Report	
Tuesday, 11 January 2011	12:00 AM	SDWD Model Updated - SDWD-201101110000withnorain.xls	Model Run	JW
	12:00 AM	NPD model updated - NPD-201101110000.xls	Model Run	JW
	12:15 AM	Spoke to Ken Morris (BCC) to update on current release strategy.	Correspondence	JW
	1:30 AM	Spoke to Tony Trace (SRC). Somerset Regional Council offices were flooded and email addresses are no longer working. Tony can be emailed on [REDACTED]	Correspondence	JW
	2:15 AM	James Charalambous (BCC) called to confirm forecast peak height of 3.1m at Brisbane city gauge for Wednesday high tide. This is based on 4800 cumecs modelled by BoM. Provided James with update on current release strategy.	Correspondence	JW
	3:00 AM	SDWD Model Updated - SDWD-201101110300withnorain.xls	Model Run	JW
	3:15 AM	James Charalambous (BCC) has provided inundation forecast for Brisbane city to assist with devising strategy to manage Wivenhoe releases	Correspondence	JW
	4:30 AM	<p>Issued Somerset Directive #6.</p> <ul style="list-style-type: none"> • Please close Sluice J at 05:00 • Please close Sluice N at 06:00 • Please close Sluice K at 07:00 	Directive	JW
	5:00 AM	<p>Issued North Pine Directive #15.</p> <ul style="list-style-type: none"> • Gate A : Open to Increment 2 at 6:00 am 	Directive	JW
	5:15 AM	Spoke to Peter Baddiley (BoM) regarding reducing Wivenhoe release to accommodate peak of Lockyer flash flood. Update: Consensus was that reducing release from Wivenhoe would no longer be feasible due to attenuation of Lockyer peak and significant additional rainfall in upper Brisbane during the night.	Correspondence	JW
	5:45 AM	<p>Issued North Pine Directive #15a.</p> <ul style="list-style-type: none"> • Gate D: Open to Increment 2 at 6:00 am 	Directive	JW

DATE	TIME	ACTION	CATEGORY	INITIALS
	6:00 AM	Issued North Pine Directive #16. • Gate B: Open to Increment 2 when level reaches 39.820 • Gate C: Open to increment 3 when level reaches 39.835 • Gate E: Open to increment 3 when level reaches 39.850 • Gate A: Open to increment 3 when level reaches 39.865 • Gate D: Open to increment 3 when level reaches 39.880	Directive	JW
	6:12 AM	FOC Situation Report at 06:00 on Tuesday 11 January 2011 <u>Rainfall</u> - 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). <u>North Pine Dam (Full Supply Level 39.60 m AHD)</u> 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. <u>Wivenhoe Dam (Full Supply Level 67.00 m AHD)</u> - 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	Situation Report	
	7:00 AM	SDWD Model Updated - SDWD-201101110700withnorain.xls	Model Run	JW
	7:00 AM	NPD model updated - NPD-201101110700.xls	Model Run	JW
	7:15 AM	Issued North Pine Directive #17. • Gate B: Open to Increment 3 when level reaches 39.895 • Gate C: Open to increment 4 when level reaches 39.910 • Gate E: Open to increment 4 when level reaches 39.925 • Gate A: Open to increment 4 when level reaches 39.940 • Gate D: Open to increment 4 when level reaches 39.955 • Gate B: Open to increment 4 when level reaches 39.970	Directive	JW
	7:20 AM	TM called Peter Borrows to appraise of latest situation of Wivenhoe and lower Brisbane	Correspondence	DP
	7:22 AM	TM called BoM to appraise of situation. BoM unable to talk and will call back.	Correspondence	DP
	7:35 AM	Peter Baddiley of BoM called back. Full appraisal of SEQWater strategy. Both SEQWater and BoM models results were discussed in detail, and generally agreed with each other.	Correspondence	DP
	7:51 AM	Called Matthew O'Rielly (Wivenhoe Dam) advised that gates opening at Wivenhoe are imminent.	Correspondence	DP
	7:56 AM	TM called BoM. Advised Jimmy Stewart and Peter Baddiley that Wivenhoe will ramp up to a minimum release of 3700m3/s.	Correspondence	DP
	7:59 AM	JT called Peter Borrows (Seqwater) and advised that releases from Wivenhoe will reach 3700m3/s at a minimum, and BoM has been informed. Likely to affect Moggill 24 hours later. Phone call terminated due to bad connection.	Correspondence	DP

DATE	TIME	ACTION	CATEGORY	INITIALS
	8:00 AM	Issued Wivenhoe Directive #12. • Open Gate 5 to 4.5 m at 08:00 • Open Gates 2 and 4 to 5.0 m at 08:30 • Open Gate 3 to 5.5 m at 09:00	Directive	DP
	8:01 AM	Peter Borrow returned call. JT advised that model to be run for BoM first and results to be past to BoM and BCC immediately. Rain likely to continue today	Correspondence	DP
	8:05 AM	Brett from NPD informed that levels are still rising and another directive is required. JT advised to proceed as per operations manual.	Correspondence	DP
	8:09 AM	Advised Matthew (Wivenhoe Dam) that Wivenhoe Directive was coming through in a matter of minutes.	Correspondence	DP
	8:10 AM	JT called Peter Allen to advise of current Wivenhoe situation - Will exceed EL74m. Ramping up gate opening to a minimum of 3700 and gate operations will progress.	Correspondence	DP
	8:11 AM	TM called BCC flood information centre (Duty Officer - James). Wivenhoe releases will reach 3700m3/s at a minimum and higher flows are possible.	Correspondence	DP
	8:15 AM	NPD Directive # 18 An interval of 15 minutes is to be used between gate movements. Gate C: Open to increment 5 when level reaches 39.985 Gate E: Open to increment 5 when level reaches 40.000 Gate A: Open to increment 5 when level reaches 40.015 Gate D: Open to increment 5 when level reaches 40.030 Gate B: Open to increment 5 when level reaches 40.045 Please also confirm by fax once these gate operations are complete.	Directive	DP
	8:15 AM	JT called Rob Drury to advise of the situation that Wivenhoe will increase to 3700m3/s as a minimum.	Correspondence	DP
	8:16 AM	TM called SRC and left a message.	Correspondence	DP
	8:20 AM	JT Called Matthew (Wivenhoe Dam) and advised more gate opening directives are coming.	Correspondence	DP
	8:21 AM	TM called Tony Trace (ICC) to advise of situation and that Wivenhoe releases to be at a minimum of 3700m3/s	Correspondence	DP
	8:25 AM	JT called Brett Schultz (North Pine Dam). Verbal directive to open gates, faxed directive to follow before 9am.	Correspondence	DP
	8:50 AM	Peter Borrows (SEQwater) called TM mobile requesting 'worst case' scenario	Correspondence	DP
	8:50 AM	Doug from Wivenhoe called informing that Wivenhoe has lost power, high voltage fuse blown. Hydro outlet is shut off.	Correspondence	DP
	9:00 AM	Issued Wivenhoe Directive #13. • Open Gates 2 and 4 to 5.5 m at 09:30 • Open Gates 1 and 5 to 5.5 m at 10:00 • Open Gate 3 to 6.0 m at 10:30 • Open Gates 2 and 4 to 6.0 m at 11:00 • Open Gates 1 and 5 to 6.0 m at 11:30	Directive	DP
	9:09 AM	JT called SEQWater maintenance (Jo Misner) advised that Wivenhoe has lost power, possibly blown high voltage fuses. JO to resolve issue.	Correspondence	DP
	9:12 AM	Brett called. NPD at 40.140 m HAD all gates at 6. currently heading to setting 7.	Correspondence	DP
	9:13 AM	Energex called. All incoming power has been lost at Wivenhoe.	Correspondence	DP
	9:16 AM	JT called Tony Martini and left message: very large inflows into North Pine Dam has resulted in steep gate openings. Flood downstream can be expected.	Correspondence	DP
	9:17 AM	JT called Ed Hamold and informed that very large inflows into North Pine Dam has resulted in steep gate openings. Flood downstream can be expected. Strathpine Rd (Old Gympie Rd) to be flooded within next hour.	Correspondence	DP
	9:21 AM	Agg from Somerset called TM. Water ingress through doors at the bottom of dam	Correspondence	DP
	9:22 AM	JT advised Brett (NPD) that Strathpine Rd is expected to be closed.	Correspondence	DP
	9:26 AM	JT advised Brett verbally that all gates can go to 9 increments based on water level as per manual.	Correspondence	DP
	9:40 AM	TM called MT and requested a technically knowledgeable person be dispatched to test HF radio links and satellite phone are in working condition	Correspondence	DP
	9:51 AM	Voicemail : Jo Misner left message. He's contacted Energex and Energex suspect a dirty feed. Currently all helicopters are grounded. Garry Ludlow is lead at Mt Crosby. Energex will get as close as they can and get helicopter lift when possible.	Correspondence	DP
	10:00 AM	NPD model updated - NPD-201101111000.xls	Model Run	JW
	10:25 AM	Brett (North Pine Dam) called to report Lake level at EL 40.490m AHD. All gates currently at setting No. 10.	Correspondence	DP
	10:29 AM	Stan from SEQWater called TM. In conference with Barton Marr. Internal questioning of release strategy. Internal discussion regarding current approved strategy.	Correspondence	DP

DATE	TIME	ACTION	CATEGORY	INITIALS
	10:45 AM	JT advised MBC (Ed Hamold) of current situation.	Correspondence	DP
	10:54 AM	Rob Drury called. Bad line and disconnected.	Correspondence	DP
	11:00 AM	SDWD Model Updated - SDWD-201101111100withnorain.xls	Model Run	JW
	11:01 AM	Message received by JT. Kilcoy police rang Somerset, JT advised general status information to be provided by dam operators, predictions to go through FOC.	Correspondence	DP
	11:02 AM	Peter Burrows (Segwater) requested update on situation.	Correspondence	DP
	11:04 AM	JT called Doug (operator) . Discussed that if forecast rain falls, fuse plug likely to go.	Correspondence	DP
	11:06 AM	FAX not working at Wivenhoe!	Other	DP
	11:07 AM	Jimmy Stewart (BoM) called. Inflow into NPD of 1500cumecs. Advised Wivenhoe strategy to be revised.	Correspondence	DP
	11:17 AM	Barton called TM - on the way to talk to Grid Manager. TM advised current strategy is 3 hourly.	Correspondence	DP
	11:19 AM	JT called Ed Haold. Advised North Pine still rising. Current releases to exceed 2000cumecs.	Correspondence	DP
	11:30 AM	Brett (North Pine Dam) called to report lake level EL 40.740 mAHD. Water level rising slowly. All gates now at setting 14.	Correspondence	DP
	11:38 AM	TM called BoM. Unable to contact Peter Baddiley. Will call back.	Correspondence	DP
	11:38 AM	JT called Peter Burrows and advised that releases at Wivenhoe will be ramped up to 4000cumecs and strategy will be revised on an hourly basis. In reality releasing slightly less than the Flood Ops manual.	Correspondence	DP
	11:51 AM	Incoming Phone call from Rob Ayre. Advised SS that Wivenhoe will ramp up to 4000cumecs. Also advised that staff likely to stay in offices overnight.	Correspondence	DP
	11:56 AM	JT called Ed Hammon and left message again. Outflow will exceed 2000cumecs	Correspondence	DP
	11:57 AM	JT called Elanor Davidson. Left message: North Pine Dam outflow likely to exceed 2000cumecs.	Correspondence	DP
	11:59 AM	JT called Tony Martini. Left message, outflow from North Pine Dam will exceed 2000cumecs.	Correspondence	DP
	12:00 PM	Issued Wivenhoe Directive #14. • Open Gates 2, 3 and 4 to 6.5 m at 12:00 • Open Gates 1 and 5 to 6.5 m at 12:30 • Open Gate 3 to 7.0 m at 13:00	Directive	DP
	12:04 PM	Brett (North Pine Dam) called to report lake level at EL 40.883 mAHD. Gates are currently set at setting 16.	Correspondence	DP
	12:10 PM	Kim Hang called from FOC satellite phone. Made contact with Somerset and North Pine. Connection issues with Landline to Wivenhoe.	Correspondence	DP
	12:11 PM	SitRep 1200 11/1/2011 Somerset/Wivenhoe - Our current strategy revolves 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 4,500 to 5,000m3/s at the time. However, it may be that fuse plug initiation might provide a lower outflow than increasing the gate outflow to protect it. In this case, we would adopt an alternate scenario. - Sluices have been closed at Somerset and this will result in high upstream water levels affecting Kilcoy. - With no further rainfall, Wivenhoe will approach 75.0m AHD and there will be an attempt to limit the dam outflow to 4,500m3/s, however this strategy currently being reviewed on an hour by hour basis. The release will be 4,000m3/s by 1300. -With 50mm rainfall in the Stanley and Upper Brisbane in the next 12 to 24 hours, the release will need to be significantly increased to be in the order 6,000m3/s. - It should be noted that the flow in the lower Brisbane River in 1974 was about 9,500m3/s - Wivenhoe has lost incoming mains power and are on backup power. Energex are attempting to rectify.	Situation Report	
	12:17 PM	Tony Martini called. TM advised discharge in excess of 1989 flood (1500cumecs). Current releases in excess of 2000cumecs.	Correspondence	DP
	12:30 PM	Brett (North Pine Dam) called to report lake level is now at EL 40.950mAHD and rising. Gate settings at 17.	Correspondence	DP
	12:42 PM	Mike Morrison from Redlands shire requesting information for Lesley Harrison. Was told to call Craig Duncan	Correspondence	DP
	12:42 PM	Call from Glen Patternson. Asked what is required of the Northern dams. Was advised to monitor dams more closely when/if 1 in 50 year event occurs.	Correspondence	DP
	1:00 PM	Issued Wivenhoe Directive #15. • Open Gates 1,2, 4 and 5 to 7.0 m at 13:15	Directive	DP
	1:00 PM	Issued Wivenhoe Directive #16. • Open Gates 1,2, 3, 4 and 5 to 7.5 m	Directive	DP
	1:02 PM	Brett Schultz (North Pine Dam) called to report Lake level EL 41.040 m AHD. Gate settings at setting 18.	Correspondence	DP
	1:26 PM	Peter Burrows (Segwater) called and requested the FOC request the BoM to consider if Wivenhoe is releasing 9000cumecs.	Correspondence	DP

DATE	TIME	ACTION	CATEGORY	INITIALS
	1:44 PM	Jeff (North Pine Dam) called on Satellite phone to confirm it is operational.	Correspondence	DP
	1:50 PM	Brett Schultz (North Pine Dam) called to report lake level at EL 41.105m AHD. Gates currently at setting 19.	Correspondence	DP
	1:55 PM	SEQWater is continually revising release strategy, could be as high as 6500cumecs by tonight. If dam stabilise, then estimates may be reduce. TM also passed on information for BoM to consider the effects at Brisbane if Wivenhoe releases 9000cumecs.	Situation Report	DP
	1:56 PM	Rob Drury requesting status update.	Correspondence	DP
	2:00 PM	SDWD Model Updated - SDWD-201101111400withnorain.xls	Model Run	JW
	2:00 PM	Issued Wivenhoe Directive #17. • Open Gates 1, 2, 3, 4 and 5 to 8.0 m	Directive	DP
	2:15 PM	Issued Wivenhoe Directive #18. • Open Gates 1, 2, 3, 4 and 5 to 8.5 m	Directive	DP
	2:24 PM	Cherlyn Wivenhoe SEQWater called to pass on message. Phil Wilson (Qld fire rescue) called to enquire about Wivenhoe Releases Unable to call at this stage.	Correspondence	DP
	2:37 PM	Peter Borrows (SEQWater) called to discuss current situation.	Correspondence	DP
	2:46 PM	Brett Schultz (North Pine Dam) called to report lake level steady at 41.110 for last 30 minutes.	Correspondence	DP
	2:53 PM	North Pine Dam is isolated as per conversation with Brett.	Correspondence	DP
	3:00 PM	NPD model updated - NPD-201101111500.xls	Model Run	JW
	3:06 PM	Stan Stevenson (SEQWater) called to enquire about the current release rate from Wivenhoe Dam.	Correspondence	DP
	3:14 PM	Peter Burrows (Seqwater) called to discuss the proposed release of 10,000cumecs. JT and TM explained release strategy is constantly being revised.	Correspondence	DP
	3:15 PM	Issued Wivenhoe Directive #19. • Open Gates 1, 2, 3, 4 and 5 to 9.0 m	Directive	DP
	3:30 PM	Issued Wivenhoe Directive #20. • Open Gates 1, 2, 3, 4 and 5 to 9.5 m	Directive	DP
	3:49 PM	Peter Baddiley & Jimmy Stewart had a conference with JT, JR, TM and RA about current release strategy and possible maximum release scenario of 10000m3/s. This would be of a similar magnitude to the 1893 event (~8.36m in Brisbane Port Office)	Correspondence	DP
	3:54 PM	Stan Stevenson (Seqwater) called and talked to JT regarding current inflow strategy.	Correspondence	DP
	3:58 PM	Called Brett Schultz (Wivenhoe Dam) to check if all is ok, levels are slowly reducing.	Correspondence	DP
	4:15 PM	Issued Wivenhoe Directive #21. • Open Gates 1, 2, 3, 4 and 5 to 10.0 m	Directive	DP
	4:29 PM	Lowood police rang to request water level of Wivenhoe and discuss the current release strategy with respect to the fuse plug (conversed with John West).	Correspondence	DP
	4:33 PM	Phone call with TM and Peter Burrows. Discussed that even though the magnitude flood in Brisbane is similar to 1974 flood event, the no-dam flood would be significantly larger without Wivenhoe.	Correspondence	DP
	4:41 PM	Peter Allen phone call. PA requested more technical information in the status reports released by Duty Engineers. PA will send through an example of the technical data requested in the report.	Correspondence	DP
	4:45 PM	Issued Wivenhoe Directive #22. • Open Gates 1, 2, 3, 4 and 5 to 10.5 m	Directive	DP
	4:46 PM	Dave Roberts called to request update in inflow/outflow of Wivenhoe Dam.	Correspondence	DP
	5:00 PM	SDWD Model Updated - SDWD-201101111700withnorain.xls	Model Run	JW
	5:12 PM	JT called Brett Schultz (North Pine Dam) regarding gate operating strategy. JT advised to keep gates at current setting until water is clear of the controls. Gate closing strategy then to follow Flood Manual.	Correspondence	DP
	5:15 PM	Issued Wivenhoe Directive #23. • Open Gates 1, 2, 3, 4 and 5 to 11.0 m	Directive	DP
	5:22 PM	Jimmy Stewart (BoM), TM and JR discussed current Wivenhoe inflows and anticipated outflows. TM confirmed that 7500cumecs is still likely early tonight.	Correspondence	DP
	5:27 PM	Brett Schultz (North Pine Dam) called to report of NPD level EL 40.7 m AHD. JT verbally advised 10 minute gate closure intervals is ok until 39.9 m AHD - then back to 15 min intervals.	Correspondence	DP
	5:48 PM	Rob Drury asking Tarong Energy to hold off releasing water from Spiltyard Creek.	Correspondence	DP
	6:00 PM	NPD model updated - NPD-201101111800.xls, NPD-201101111800 Final.xls	Model Run	JW
	6:00 PM	SDWD Model Updated - SDWD-201101111800withnorain.xls	Model Run	JW
	6:00 PM	Issued Wivenhoe Directive #24. • Open Gates 1, 2, 3, 4 and 5 to 12.0 m	Directive	DP

DATE	TIME	ACTION	CATEGORY	INITIALS
	6:00 PM	Situation Report 1800 11 January 2011 -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. - At 1730 Wivenhoe Dam was 74.92m AHD and rising slowly and releasing about 6,700m ³ /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 ³ /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 100mm 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	Situation Report	TM
	6:04 PM	Glen Patterson called to advise he is unable to reach Lake MacDonald to take readings.	Correspondence	DP
	6:07 PM	Recap of current release strategy amongst Duty Engineers. Current Wivenhoe scenario: 74.9 m - all gates at 12m. Won't go to 13m settings until level reaches 75.0 m AHD.	Correspondence	DP
	6:35 PM	Agg (Somerset Dam) called to confirm all is good.	Correspondence	DP
	6:36 PM	Bill Stevens called to inform team he is cut off due to flood waters and unable to come in.	Correspondence	DP
	6:41 PM	Tarong Energy confirmed releases from Splityard creek have stopped.	Correspondence	DP
	6:56 PM	Daryl Hicky informed that tailwater gauge appears to be OOA. Confirmed by TM.	Correspondence	DP
	7:00 PM	Spoke to Brett Schultz who confirmed that North Pine gate settings were at 17, with level of 40.5. Closing sequence was still to close in 10 minute increments down to level 39.9, at which time increments would increase to 15 minutes.	Correspondence	JW
	7:10 PM	Brett Schultz at NPD rang is concerned that the level is dropping too fast.	Correspondence	AN
	7:30 PM	Issued North Pine Directive #19. • Gate B: Close to increment 11 at 19:45. • Gate D: Close to increment 11 at 20:00. • Gate A: Close to increment 11 at 20:15. • Gate E: Close to increment 11 at 20:30. • Gate C: Close to increment 11 at 20:45.	Directive	AN
	7:30 PM	Doug Grigg (Wivenhoe Dam) called to report that Wivenhoe Level 74.97mAHD is holding.	Correspondence	AN
	7:30 PM	Brett Schultz (North Pine Dam) rang to say he is behind in gate settings.	Correspondence	AN
	7:25 PM	JR called Brett Schultz (North Pine Dam) to advise that a directive will be sent to move all gates down to 11m.	Correspondence	AN
	7:45 PM	Brett Schultz (North Pine Dam) called FOC. JT clarified directive 19 to drop gates from 16 to 11 in one go, at 15 minutes intervals.	Correspondence	AN
	8:00 PM	Peter Baddiley rang. Unofficially TM advised that things have stabilised. Also advised predicted peaks at various sites.	Correspondence	AN
	8:25 PM	Joe Meisner rang to advise that the high voltage feeder to Wivenhoe will not be restored for the duration of this event. JT advised that Wivenhoe is operating successfully on the generator, and they have a fair bit of diesel. There are still 2 other backups to operate the gates.	Correspondence	AN
	8:25 PM	Chris Hughes at Colliers Building Services rang back. Rob Ayre asked about power supply to 179 Turbot Street. Chris said to email our power requirements.	Correspondence	AN
	8:30 PM	Doug Grigg (Wivenhoe Dam) called to advise that Wivenhoe's level is 5mm down.	Correspondence	AN
	8:30 PM	RA called Colliers Building Services and left a message to call back (regarding loss of power to the 179 Turbot Street)	Correspondence	AN
	8:30 PM	RA rang John Thornton (SunWater) to advise that power will be shutting down in the CBD tomorrow morning.	Correspondence	AN
	8:30 PM	Issued Somerset Directive #7. • Fully Open Sluice L at 10:30.	Directive	AN
	8:35 PM	RA rang John Thornton to advise the power situation.	Correspondence	AN
	8:35 PM	Peter Burrows (Seqwater) called FOC to speak with all duty engineers on the operating strategies for Wivenhoe releases.	Correspondence	AN
	8:40 PM	MT called FOC to ensure we received the Energex message regarding power shutdown to the CBD.	Correspondence	AN
	8:45 PM	Warren Shalcross rang. Rob Ayre advised that Energex will be cutting power to the CDD in the morning. Warren will call Mike Minter and the security guys for Mineral House.	Correspondence	AN
	8:50 PM	Brett Schultz (North Pine Dam) called to report NPD Level at EL 40.07mAHD. Gates are all at 11 increments.	Correspondence	AN
	8:55 PM	Peter Burrows (Seqwater) rang asking about possibly reducing releases. TM advised that we are seriously considering it, but this would have little effect on the levels in Brisbane River. Peter would like technical reports every hour throughout the night.	Correspondence	AN
	9:00 PM	RA emailed Chris Hughes with our building power requirements.	Correspondence	AN

DATE	TIME	ACTION	CATEGORY	INITIALS
	9:00 PM	Issued North Pine Directive #20. • Gate B: Close to increment 6 at 21:00. • Gate D: Close to increment 6 at 21:15. • Gate A: Close to increment 6 at 21:30. • Gate E: Close to increment 6 at 21:45. • Gate C: Close to increment 6 at 22:00.	Directive	AN
	9:00 PM	Issued Wivenhoe Directive #25. • Close Gates 1,2, 3, 4 and 5 to 11.0 m	Directive	AN
	9:05 PM	TM rang Chris Lahey (BoM) to advise that power to the CBD may be cut and send him actual and releases report.	Correspondence	AN
	9:10 PM	John Thornton called RA. John advised he spoke to Chris Hughes and is getting an Energex contact.	Correspondence	AN
	9:20 PM	Warren Shallcross rang. Mike Minter told him we may not be able to have air conditioning.	Correspondence	AN
	9:25 PM	RA called John Thornton. Chris Hughes got back to him and has Haywoods Electrical lined up for tomorrow morning.	Correspondence	AN
	9:25 PM	The last directive to lower the Wivenhoe gates to 11m should have been 11.5m. A new directive to raise to 11.5m was issued.	Directive	AN
	9:30 PM	Mal Lane (North Pine Dam) called. They are still behind in gate closures.	Correspondence	AN
	9:30 PM	Issued Wivenhoe Directive #26. • Close Gates 1,2, 3, 4 and 5 to 11.5 m	Directive	AN
	9:35 PM	JT rang to discuss the latest directive to raise Wivenhoe Dam. JT suggested not raising.	Correspondence	AN
	9:40 PM	JW called Doug Grigg (Wivenhoe Dam) to obtain a current level. EL 74.9? Gates have been raised to 11.5m.	Correspondence	AN
	10:00 PM	SDWD Model Updated - SDWD-201101112200withnorain.xls	Model Run	JW
	10:00 PM	John Thornton rang to advise the phone number for Steve from Energex [REDACTED]	Correspondence	AN
	10:00 PM	John Thornton rang requesting RA mobile number to pass on onto Energex.	Correspondence	AN
	10:15 AM	Issued North Pine Directive #21a. • Gate B: Close to increment 4 at 22:30 • Gate D: Close to increment 4 at 22:45 • Gate A: Close to increment 4 at 23:00 • Gate E: Close to increment 4 at 23:15 • Gate C: Close to increment 4 at 23:30 • Gate B: Close to increment 3 at 23:45	Directive	AN
	10:30 PM	John Thornton rang to say Geoff White has pleaded our case with the CEO of Energex and it is likely 179 Turbot Street will not lose power.	Correspondence	AN
	10:35 PM	Doug Grigg (Wivenhoe Dam) called to report lake level of 74.94mAHD @ 10:30hrs.	Correspondence	AN
	11:00 PM	Doug Grigg (Wivenhoe Dam) called to report lake level of 74.92mAHD @ 11:00hrs.	Correspondence	AN
	11:00 AM	Issued Wivenhoe Directive #27 - note directive #28 was a duplicate and not sent • Close Gates 5,1,4,2 and 3 to 10.0 m	Directive	AN
	11:10 PM	Rob Drury rang to request discharge from Wivenhoe when the gates are lowered to 10m. Advised 6100m3/sec.	Correspondence	AN
Wednesday, 12 January 2011	11:30 PM	JW called Doug Grigg (Wivenhoe Dam) to obtain a current level. EL 74.9? Gates have been raised to 11.5m.	Correspondence	AN
	12:00 AM	Issued North Pine Directive #22. • Gate D: Close to increment 3 at 00:15 • Gate A: Close to increment 3 at 00:30 • Gate E: Close to increment 3 at 00:45 • Gate C: Close to increment 3 at 01:00 • Gate B: Close to increment 2 at 01:15	Directive	AN
	12:30 AM	Doug Grigg (Wivenhoe Dam) called to report lake level of 74.88mAHD @ 12:30hrs.	Correspondence	AN
	1:00 AM	John Thornton (SunWater) called to provide Energex contact details; Steve, phone number [REDACTED]. Steve indicated that he didn't believe 179 Turbot St would be disconnected from power grid in the morning.	Correspondence	JW
	1:15 AM	RA rang Doug Grigg (Wivenhoe Dam) advising next directive. We want to get releases down as quick as possible while still lowering lake levels. Advised that we may possibly have a communications problem in the morning if power to 179 Turbot Street is cut.	Correspondence	AN
	1:15 AM	Issued Wivenhoe Directive #29. • Close Gates 5,1,4,2 and 3 to 9.0 m	Directive	AN

DATE	TIME	ACTION	CATEGORY	INITIALS
	2:00 AM	Issued North Pine Directive #23. • Gate D: Close to increment 2 at 02:15 • Gate A: Close to increment 2 at 02:30 • Gate E: Close to increment 2 at 02:45 • Gate C: Close to increment 2 at 03:00	Directive	AN
	2:10 AM	James Charalambous (BCC) rang enquiring about a release strategy. Advised one will be issued at about 3:00am. Talked about the activities of the last 24 hours.	Correspondence	AN
	3:10 AM	JR rang Mal Lane (NPD) and advised no changes to gate settings planned for the next hour or so.	Correspondence	AN
	3:15 AM	Issued Wivenhoe Directive #30. • Close Gates 5,1,4,2 and 3 to 8.0 m	Directive	AN
	3:30 AM	Brett Myatt (SEQWater Mt Crosby WTP) called enquiring about levels at Mt Crosby.	Correspondence	AN
	3:50 AM	RA called Chris Lahey (BoM) advising him that because inflows are not as much as earlier anticipated, the releases from Wivenhoe are less than previously suggested.	Correspondence	AN
	4:05 AM	Ian Douglas, OIC of Lowood Police, rang enquiring about the Wivenhoe fuse plug. JW advised that there is no danger of the fuse plug failing, and that current releases from Wivenhoe Dam are about 4,900 cumecs.	Correspondence	AN
	4:15 AM	Issued North Pine Directive #24. • Gate B: Close to increment 1 at 04:30 • Gate D: Close to increment 1 at 04:45 • Gate A: Close to increment 1 at 05:00 • Gate E: Close to increment 1 at 05:15	Directive	AN
	4:30 AM	Issued Wivenhoe Directive #31. • Close Gates 5,1,4,2 and 3 to 7.0 m	Directive	AN
	4:40 AM	Brett Myatt (Seqwater Mt Crosby WTP) rang to check that his emails with the Mt Crosby levels were being received. They are.	Correspondence	AN
	5:15 AM	Rob Drury rang enquiring current storage levels and releases. JR advised.	Correspondence	AN
	5:30 AM	Rob Drury rang enquiring estimated time for closing North Pine Dam. RA advised possible today, but it has not yet been decided. Also advised the inflows into North Pine Dam were equivalent to a 1:10,000 event.	Correspondence	AN
	5:30 AM	Issued Wivenhoe Directive #32. • Close Gates 5,1,4,2 and 3 to 6.0 m	Directive	AN
	5:30 AM	Issued Wivenhoe Directive #33. • Close Gates 5,1,4,2 and 3 to 5.0 m	Directive	AN
	5:30 AM	JR called Wivenhoe Dam for the current level. Dropped 2 cm in 30 minutes.	Correspondence	AN
	5:49 AM	Situation Report 0600 Wed 12/01/2011 - 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. - Wivenhoe Dam peaked on the 11th January, Tuesday night at 19:00 at 74.97 mAHD with a corresponding discharge of 7,450 m3/s. The release have now been scaled back to 4,300m3/s at 05:00 am. Wivenhoe Dam is currently 74.77 m AHD and falling slowly. - The releases from Wivenhoe Dam will be temporarily reduced to 2,500 m3/s to allow the peak of Lockyer Creek to enter the Brisbane River, after which they 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. - Somerset Dam is at 105.10 mAHD and slowly rising. The dam is discharging 1,230 m3/s over the spillway. The dam is expected to peak this morning near its current level. Sluice gates will be utilised to assist the draining of the flood storage compartment commencing on Thursday. - The combined flood event volume in Somerset and Wivenhoe Dams is estimated to be in excess of 2 million megalitres.	Situation Report	RA
	5:50 AM	TM called Jim Stewart (BoM) advising him that we have significantly scaled back releases from Wivenhoe Dam, and will probably continue to scale back more. Agreed that Savages Crossing has peaked.	Correspondence	AN
	6:00 AM	SDWD Model Updated - SDWD-201101120600withnorrain.xls	Model Run	JW
	6:00 AM	North Pine Dam rang enquiring about closing down. JT advised that we have not yet decided.	Correspondence	AN
	6:10 AM	Rob Drury rang and suggested that the fish recovery may be a fairly big job. JT suggested that our staff can check this morning and then decide.	Correspondence	AN
	6:15 AM	Brendan Bradley (BCC) rang enquiring the level of the pump station at Mt Crosby. JT said we can't help, but that he should contact the treatment plant, Brett Myatt.	Correspondence	AN

DATE	TIME	ACTION	CATEGORY	INITIALS
	6:30 AM	JT rang Doug Grigg (Wivenhoe Dam) advising that a directive will soon follow to lower gates to 5m.	Correspondence	AN
	6:35 AM	Paul Martin rang. JT discussed current strategy.	Correspondence	AN
	7:00 AM	Liaised with Bureau regarding expected peak in lower Brisbane.	Correspondence	JW
	7:15 AM	Issued Wivenhoe Directive #34. • Close Gates 1 and 5 to 3.5 m • Close Gates 2 and 4 to 4.0 m	Directive	KH
	7:50 AM	John Thornton (SunWater) called to confirm that 179 Turbot St had power.	Correspondence	JW
	7:57 AM	Situation Report 0800 Wed 12/01/2011 <u>Rainfall</u> - 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. <u>Somerset/Wivenhoe</u> - Somerset Dam has peaked at 105.11 mAHD at 06:00 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. - Wivenhoe Dam peaked at 74.97 mAHD at 19:00 on 11 January 2011 with a corresponding discharge of 7,450 m3/s. Wivenhoe Dam was 74.75 m AHD 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. <u>North Pine</u>	Situation Report	TM
	8:20 AM	Rob Drury rang enquiring current storage levels and releases. JT advised.	Correspondence	KH
	8:30 AM	Issued North Pine Directive #25. • Gate E: Open to increment 2 at 08:45	Directive	KH
	9:20 AM	Brett Schultz (North Pine Dam) rang wanting to speak to JT.	Correspondence	KH
	9:50 AM	Ken from Lowood Police rang enquiring current storage releases from Wivenhoe Dam. JT advised.	Correspondence	KH
	10:15 AM	Issued Somerset Directive #3. • Fully Open Sluice L at 10:30.	Directive	KH
	10:20 AM	Agg (Somerset Dam) called querying whether FOC have received fax and email regarding storage level. He was checking the walls before and will be at his desk for the next 30 minutes. Adam is there with him.	Correspondence	KH
	10:50 PM	Sam (SEQWater) rang wanting to thank Neville for his and John's heroic effort in clearing SEQWater basement.	Correspondence	KH
	11:20 AM	MT called to inform that he and Caroline Ellis Mallard (Seqwater) are not able to access Enviromon. He asked if TM can check the system.	Correspondence	KH
	11:50 AM	Peter Borrows (Seqwater) called to ask that all communications be forwarded to him.	Correspondence	JW
	12:20 PM	NA called Mathew O'Reilly (Wivenhoe Dam) to advise that Seqwater comms are to be switched off due to flooding of the Margaret Street offices. Please send all future hourly bulletins to the FOC via fax, or alternatively, phone or TPG link.	Correspondence	NGA
	12:25 PM	NA called Jeff Francis (North Pine Dam) advising him & Brett that Seqwater comms are to be switched off due to flooding of the Margaret Street offices. Please send all future hourly bulletins to the FOC via fax, or alternatively, phone or TPG link.	Correspondence	NGA
	12:32 PM	Mick O'Halaran (Leslie Harrison Dam) called JT. Due to the failure of Seqwater comms, he was seeking direction on how to submit a final report on operations at approx. 1600 today. JT said to phone in to the FOC.	Correspondence	NGA
	12:55 PM	Peter Baddiley, Rob Tesse, Jim Stevenson from BoM visited FOC to liaise with the Duty Engineers.	Correspondence	NGA
	1:10 PM	Barton Maher called to request electronic copy of Wiv - Som Flood Ops manual to be forwarded to him.	Correspondence	NGA
	1:15 PM	Mathew (Wivenhoe Dam) called to report lake level: 74.79mAHD @13:00hrs. Note: Reading taken in surging water. Wivenhoe fax appears to have failed.	Correspondence	NGA
	2:05 PM	Brett Schultz (North Pine Dam) called to inform that North Pine level was 39.74mAHD and based on this level he is recommending at least one gate closure.	Correspondence	NGA
	2:10 PM	Graham Keegan phoned from Wivenhoe Dam. The SES (and irrigators) at Fernvale have concerns that a flood peak might be coming down the Lockyer within the next couple of hours. Rob Ayre assured Graham that the flood heights have reduced by up to 3 metres and any increase would be less than 1 metre.	Correspondence	NGA
	2:15 PM	Issued North Pine Directive #26. • Gate E: Close to increment 1 at 14:15	Directive	NGA

DATE	TIME	ACTION	CATEGORY	INITIALS
	2:25 PM	Mathew (Wivenhoe Dam) called to report lake level: 74.81mAHD @14:00hrs. Note: Reading taken in surging water. Wivenhoe fax confirmed as failed.	Correspondence	NGA
	2:30 PM	Brett Schultz (North Pine Dam) called to advise that the automatic height gauge is drifting further from the manual gauge board readings. He will continue to provide both versions at hourly intervals but will rely on the manual gauge readings for gate operations.	Correspondence	NGA
	2:45 PM	Issued North Pine Directive #27. • Gate C: Close to increment 1 at 14:45	Directive	NGA
	3:00 PM	Situation Report 1500 Wed 12/01/2011 <u>Rainfall</u> 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 fin the next 4 days. <u>Somerset/Wivenhoe</u> - 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 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. - Wivenhoe Dam peaked at 74.97 mAHD at 19:00 on 11 January 2011 with a corresponding discharge of 7,450 m3/s. Wivenhoe Dam was 74.81 m AHD at 15:00 and steady. - The releases from Wivenhoe Dam have been temporarily reduced to 2,500 m3/s at 07:30 12 January 2011 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.	Situation Report	TM
	3:05 PM	Doug Grigg (Wivenhoe Dam) called to report lake level of 74.81mAHD @ 15:00hrs.	Correspondence	NGA
	3:30 PM	Peter Baddiley (BoM) called TM to discuss re-appraisal of the expected flood peak in Brisbane. Peak now may be 5.2 metres early on Thursday 13/12/11.	Correspondence	NGA
	4:00 PM	SDWD Model Updated - SDWD-201101121600.xls	Model Run	JW
	4:00 PM	Doug Grigg (Wivenhoe Dam) called to report lake level of 74.80mAHD @16:00hrs.	Correspondence	NGA
	4:00 PM	Brett Schultz (North Pine Dam) called to report that Sideling Creek Dam is spilling at 20.560mAHD. Spillway level is 20.37mAHD.	Correspondence	NGA
	4:20 PM	Ken Morris (BCC) called FOC and had phone conference with Duty Engs. He was seeking update for briefing with Lord Mayor.	Correspondence	NGA
	4:52 PM	Paul Martin (DERM) called FOC and left message for TM. They (DERM) will be gauging at Jindalee all night to catch the peak. Carolyn Ellis Mallard has been contacted and will be joining the crew.	Correspondence	NGA
	5:00 PM	Doug Grigg (Wivenhoe Dam) called to report lake level of 74.82mAHD @17:00hrs.	Correspondence	NGA
	6:00 PM	Doug Grigg (Wivenhoe Dam) called to report lake level of 74.80mAHD @18:00hrs.	Correspondence	NGA
	6:00 PM	Situation Report 1800 Wed 12/01/2011 <u>Rainfall</u> 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 fin the next 4 days. <u>Somerset/Wivenhoe</u> - Somerset Dam has peaked at 105.11 mAHD at 06:00 on 12 January 2011. One sluice was opened at 1030 12 January 2011. Somerset Dam was 104.87 mAHD at 1700 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. - Wivenhoe Dam peaked at 74.97 mAHD at 19:00 on 11 January 2011 with a corresponding discharge of 7,450 m3/s. Wivenhoe Dam was 74.82 m AHD at 17:00 and steady. - 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	Situation Report	TM
	7:00 PM	Doug Grigg (Wivenhoe Dam) called to report lake level of 74.82 @19:00hrs.	Correspondence	MT
	7:45 PM	RA & JR advised Chris Laney (BoM) that FOC will be sending updated projected releases from Wivenhoe Dam. This has been prepared with the aim of limiting flows at Moggill to 3,500 cumecs.	Correspondence	MT
	8:00 PM	RA & JR advised David (BCC Flood Information Centre) that FOC will be sending updated projected releases from Wivenhoe Dam. This has been prepared with the aim of limiting flows at Moggill to 3,500 cumecs.	Correspondence	MT

DATE	TIME	ACTION	CATEGORY	INITIALS
Thursday, 13 January 2011	8:55 PM	Doug Grigg (Wivenhoe Dam) called to report lake level 74.82mAHD @ 21:00hrs. They will now report levels every 2 hours.	Correspondence	RA
	9:15 PM	Doug Grigg (Wivenhoe Dam) called to inform that Energex restored power at Wivenhoe Dam at 21:15 hours.	Correspondence	MT
	9:50 PM	Brett Myatt (Mt Crosby WTP) provided an update on Kholo & Mt Crosby: Kholo 19:15hrs 20.0m Mt Crosby 21:00 23.5m	Correspondence	MT
		He asked for a situation update. RA shared Wivenhoe Dam's release strategy.		
	10:00 PM	Doug Grigg (Wivenhoe Dam) called to report lake level 74.81mAHD @22:00hrs. Will now report levels every 2 hours.	Correspondence	MT
	12:00 AM	Doug Grigg (Wivenhoe Dam) called to report lake level 74.79mAHD @ 00:00.	Correspondence	MT
	1:00 AM	James (BCC) called FOC to enquire if Wivenhoe Dam has been compromised. JR assured him that that is not the case.	Correspondence	MT
	1:05 AM	RA called BoM hotline number to check communications.	Correspondence	MT
	1:10 AM	BCC called the FOC regarding a viral text rumour that Wivenhoe Dam has failed. JR assured him that that is not true and will speak with Rob Drury about this matter.	Correspondence	MT
	1:20 AM	Gareth Bossley (Queensland Police) called to inform of rumours that Wivenhoe Dam has been compromised.	Correspondence	MT
Thursday, 13 January 2011	1:25 AM	JR called Doug Grigg (Wivenhoe Dam) to confirm Wivenhoe Dam has not been compromised.	Correspondence	MT
	1:30 AM	JR called Rob Drury advising him about the rumours that Wivenhoe Dam has been compromised. JR will send him the BCC contact details.	Correspondence	MT
	2:00 AM	Doug Grigg (Wivenhoe Dam) called to report level 74.765mAHD @ 2:00hrs.	Correspondence	MT
	4:00 AM	Doug Grigg (Wivenhoe Dam) called to report lake level 74.74mAHD @4:00hrs. Will now report levels every 2 hours.	Correspondence	MT
	5:43 AM	Situation Report 0600 13 January 2011 <u>Rainfall</u> Rainfall in the last 12 hours is generally below 5mm with isolated falls of up to 15mm in the Stanley, Lockyer and Pine River catchments. There is no significant rain expected in the next 4 days. <u>Somerset/Wivenhoe</u> - Somerset Dam peaked at 105.11 mAHD at 06:00 on Wednesday 12 January 2011. The current level is 104.34 mAHD. One sluice was opened at 10:30 on 12 January 2011 and the dam is currently discharging 1,130 m3/s. Sluice gates will be utilised to drain of the flood storage compartment during the next 5 days. - Wivenhoe Dam peaked at 74.97 mAHD at 19:00 on Tuesday 11 January 2011 with a corresponding discharge of 7,450 m3/s. Wivenhoe Dam was 74.72 m AHD at 06:00 and commence to fall slowly. - The releases from Wivenhoe Dam have been temporarily reduced to 2,500 m3/s at 07:30 on Wednesday 12 January 2011 to allow the peak of Lockyer Creek to enter the Brisbane River. The Brisbane River has peaked at the Port Office Gauge early Thursday morning. Releases from Wivenhoe Dam will be managed to achieve a target flow of around 3,500 m3/s at Moggill. This release will	Situation Report	RA
		<u>North Pine</u> At 06:00 North Pine Dam was 39.70 mAHD falling with all gates open 1 increment, releasing about 80 m3/s. North Pine peaked at 41.11 mAHD at 14:00 on Tuesday 11 January 2011 with peak release of 2,800 m3/s. The event has a volume of around 200,000 ML. It is expected that all gates will be closed on Friday. <u>Strategy</u> - The Flood Operations Centre is continuing to monitor rainfalls and water levels throughout the Brisbane and Pine River catchments and reviewing operating strategy. The FOC will continue to maintain close contact with warning agencies and local councils. - The next report will be issued at 18:00 on Thursday 13 January 2011.	Situation Report	
	6:00 AM	Doug Grigg (Wivenhoe Dam) called to report lake level 74.71mAHD @6:00hrs. Will now report levels every 2 hours.	Correspondence	MT
	6:43 AM	Peter Baddiley (BoM) called to inform that BoM has lost their telephone system. He provided 2 contact numbers: [REDACTED] Thornton St 4.45m. Telemeter 4.20m	Correspondence	MT
	7:30 AM	Agg Dagan has been advising Kilcoy Police of the FOC strategy for lower Somerset during the next 24 hours of opening sluice later today	Correspondence	RA
	7:50 AM	Peter Baddiley (BOM) called to ask heights 3,500m3/s would be at Savages and Mt Crosby. TM advised 34.5m AHD and 16.5m AHD respectively.	Correspondence	TM
Thursday, 13 January 2011	8:05 AM	Kerry (MBRC) wanted to know when NPD gates will be closed. Advised to be closed by 0500 Friday	Correspondence	TM
	8:15 AM	Somerset directive #9 issued	Correspondence	JW
	9:00 AM	Rob Drury wants to know when gates setting are changed on Wivenhoe and Somerset. Advised that NPD will be closed at 05 Friday.	Correspondence	RA

DATE	TIME	ACTION	CATEGORY	INITIALS
	9:00 AM	Agg Dagan advised of projected level for Somerset, 103.5 by 2000 Thursday and 102.8 early Friday morning. Will open another sluice this afternoon.	Correspondence	TM
	10:10 AM	Rob Drury called to inform that power and IT services have been restored at Seqwater.	Correspondence	JW
	10:30 AM	Rob Drury called to request if he could be notified of any changes to releases from Wivenhoe	Correspondence	JW
	11:00 AM	SDWD Model Updated - SDWD-201101131100.xls	Model Run	JW
	12:30 PM	Wivenhoe directive #35 issued • Open Gate 2 from 4.0 metres to 4.5 metres at 1300. • Open Gate 4 from 4.0 metres to 4.5 metres at 1400.	Directive	JW
	12:30 PM	Somerset directive #10 issued • Fully Open Sluice K at 13:00.	Directive	JW
	1:00 PM	Tony Jacobs rang to enquire about Kilcoy Creek and Mary Smokes Bridge. Duty Engineers advised that it may be out of water tonight, certainly by tomorrow morning.	Correspondence	JW
	1:15 PM	Rob Drury called to advise that Police had called to ask when Kilcoy would be accessible. John Tibaldi advised Rob that it would be by 6am tomorrow morning (14/1).	Correspondence	JW
	1:40 PM	Brett Myatt called for update on Mt Crosby. Terry Malone informed him that level would be maintained at 17.5 metres for next 7 days.	Correspondence	JW
	2:15 PM	Phone call from Steve Roso, MBRC. Advice as follows: * damage to Gympie Rd abutments * No evacuations * No suburban flooding * Not aware of any over floor flooding. Pine Shire had 0.75m freeboard.	Correspondence	JW
	2:30 PM	Wivenhoe directive #36 issued • Open Gate 1 from 3.5 metres to 4.0 metres at 1500. • Open Gate 5 from 3.5 metres to 4.0 metres at 1600. • Open Gate 1 from 4.0 metres to 4.5 metres at 1700. • Open Gate 5 from 4.0 metres to 4.5 metres at 1800.	Correspondence	JW
	3:45 PM	Provided situation report to Rob Drury.	Situation Report	JW
	3:50 PM	Brett Schultz called to confirm if FOC received Dam Observation report for North Pine Dam. Approx 6 of 40 uplift pressure gauges have abnormal readings.	Correspondence	JW
	4:45 PM	Judy (MBRC) was advised that NPD gates will be closed at 0500 Friday	Correspondence	TM
	6:00 PM	Wivenhoe directive #37 issued • Open Gate 2 from 4.5 metres to 5.0 metres at 1830. • Open Gate 4 from 4.5 metres to 5.0 metres at 1900. • Open Gate 1 from 4.5 metres to 5.0 metres at 1930. • Open Gate 5 from 4.5 metres to 5.0 metres at 2000. • Open Gate 3 from 5.0 metres to 5.5 metres at 2030.	Directive	JW
	7:37 PM	John Thornton of SunWater called to confirm building services were working and all in order.	Correspondence	DP
	7:51 PM	Rob called Mal Lane (North Pine Dam) to discuss the current drainage strategy to close all gates by 5am tomorrow. Water level in North Pine Dam will be frequently monitored against the predictive model results, and gate opening will be adjusted accordingly if required.	Correspondence	DP
	8:15 PM	Wivenhoe directive #38 issued • Open Gate 2 from 5.0 metres to 5.5 metres at 2100. • Open Gate 4 from 5.0 metres to 5.5 metres at 2200. • Open Gate 1 from 5.0 metres to 5.5 metres at 2300. • Open Gate 5 from 5.0 metres to 5.5 metres at 2000. • Open Gate 3 from 5.5 metres to 6.0 metres at 0100 on 14/1/11 • Open Gate 3 from 5.5 metres to 6.0 metres at 0200 • Open Gate 3 from 5.5 metres to 6.0 metres at 0300	Directive	DP
	8:28 PM	Somerset directive #11 issued • Fully Open Sluice N at 21:00.	Directive	DP
	8:30 PM	Rob Ayre called Graham Francis to advise of directive #11.	Correspondence	DP

DATE	TIME	ACTION	CATEGORY	INITIALS
Friday, 14 January 2011	8:41 PM	Rob Ayre called Rob Drury to advise of current release rates from Wivenhoe, Somerset and North Pine Dams.	Correspondence	DP
	12:46 AM	David Preston of Ipswich District (Fernvale) Police rang to enquire into the integrity of Somerset Dam, based on information received by the police. Rob Ayre indicated that surveillance procedures are in place to monitor the integrity of the Dam, and that RA will confirm with the operators.	Correspondence	DP
	12:47 AM	Rob Ayre called Ray Ballinger at Somerset to enquire to the integrity of Somerset Dam. Operator indicated all was good and no anomalies have been detected.	Correspondence	DP
	12:49 AM	RA called David Preston back on [REDACTED] to confirm that Somerset was recently inspected and all was ok.	Correspondence	DP
	2:10 AM	Rob Ayre called Shane Watson to advise commencement of shut down of gates in accordance with Directive #30: Please undertake the following gate operations commencing at 03:15 on Friday 14 January 2011. The interval between gate operations is to be 15 minutes. • Gate A: Close to 1 increment at 03:15 • Gate E: Close to 1 increment at 03:30 • Gate C: Close to 1 increment at 03:45 • Fully Close Gate B at 04:00 • Fully Close Gate D at 04:15 • Fully Close Gate A at 04:30 • Fully Close Gate E at 04:45 • Fully Close Gate C at 05:00	Directive	DP
	5:13 AM	Fax received from North Pine Dam confirming closure of all gates.	Correspondence	DP
	5:15 AM	Rob Ayre called MBRC to advise that North Pine Dam has closed the final gate at 5am.	Correspondence	DP
	5:16 AM	Malcom from North Pine Dam called to confirm that all gates are closed, and Young's Crossing should be passable within 2 hours. Lake Kurwongbah level is 20.43 m.	Correspondence	DP
	5:28 AM	Rob Drury called to obtain a situation report. Rob Ayre provided the key information.	Correspondence	DP
	5:37 AM	James C from BCC called requesting information for Wivenhoe Dam and checking sit-rep data. Enquired about flows throughout the event, TM advised that not currently in a position to discuss these.	Correspondence	DP
	7:40 AM	Rob Drury rang FOC to enquire about river levels at Lowood. Pumps required to be installed to supply Lowood WTP. TM advised RD that no significant rises were expected in the Brisbane River levels in the foreseeable future.	Correspondence	NGA
	7:45 AM	Andrew Tesse from ICC phoned the FOC. Enquiring about renewed rises in the Brisbane / Bremer River systems. He cannot contact BOM for an update. TM advised that no significant rises were expected at Moggill. A constant flow in the river was the plan as a consequence of Wivenhoe releases.	Correspondence	NGA
	8:20 AM	Barton Maher phoned TM. Enquiry regarding the Wivenhoe Dam fuse plugs (design calcs/parameters).	Correspondence	NGA
	8:21 AM	Peter Borrows phoned the FOC. TM discussed with Peter Borrows the release strategy from Wivenhoe Dam with a view to opening the Fernvale Bridge and Mt Crosby Bridge at the earliest possible time. TM also updated PB on the projected City Gauge height over the next few days. This being ~2.5 metres due to continuous releases from Wivenhoe Dam.	Correspondence	NGA
	8:30 AM	TM returned call back to Barton Maher. TM extended an invitation to Barton and others to pay a visit to the FOC to inspect operations.	Correspondence	NGA
	10:10 AM	Agg Dagan rang from Somerset Dam. Checking that all comms avenues (faxes & e-mails) are functioning. All good.	Correspondence	NGA
	10:25 AM	Ken Morris from BCC rang TM. Enquiring if any chance of cutting back Wivenhoe releases to lower flows than the current figure of 3,500 cumecs. TM's response was NO!	Correspondence	NGA
	10:40 AM	Rob Keogh (SunWater) transmitted a message via Daryl Brigden (SunWater) to Barton Maher that the right bank abutment to Mt Crosby Bridge has suffered some erosion due to the flooding and there are concerns that the abutment may be further affected by piping once the water level falls.	Correspondence	NGA
	10:50 AM	Murray Dunstan rang from North Pine. The dam ceased flood operations at 5:00am this morning and fish recovery and clean-up has been completed. Approx. 31 lung fish were rescued. Quite a number of dead lung fish and other species. Erosion damage downstream of the dam is severe with loss of vegetation, stripped and fallen trees, bank erosion, and many dead fish caught within the root ball of fallen trees. Murray is organising back hoes and front end loader machinery to clear the debris between the NP dam wall and Grant Street.	Correspondence	NGA
	12:33 PM	Mark Tan phoned TM. Request from Seqwater Corp Comms about hourly updates. Particular concern about NPD which ceased flood operations at 5:00am this morning !! TM advised that updates from the dams would continue to be channeled solely through the FOC.	Correspondence	NGA

DATE	TIME	ACTION	CATEGORY	INITIALS
Saturday, 15 January 2011	12:35 PM	Ali Cameron from DERM phoned TM. Re: Gauging exercise at Jindalee:- Soundtek M9 from boat (6 passes) Jindalee gauging result:- 4,300m ³ /sec at 6:45 metres AHD at 12:00 hrs	Correspondence	NGA
	12:37 PM	Peter Borrows rang TM. Discussion about mis-informed reporting.	Correspondence	NGA
	1:45 PM	TM rang Ken Morris at BCC seeking clarification on BCC's flood mapping. Ken Morris advised that at 3,500 cumecs, BCC records indicate that 220 properties will have water on the property. TM confirmed that 'water on the property' did not mean water above floor level. i.e. Likely to be land inundation only.	Correspondence	NGA
	1:53 PM	Rob Drury rang TM. Routine call. Update on current status.	Correspondence	NGA
	2:45 PM	Rob Drury rang TM. Routine call. Update on current status.	Correspondence	NGA
	3:30 PM	Matthew O'Reilly rang from Wivenhoe Dam with concerns about some 'swirling' apparent in the downstream tailwater opposite 'The Common'. Matthew thought there could be some erosion occurring under the flow. Matthew forwarded a marked photo of the phenomenon to TM. The consensus reached was that the phenomenon was the result of an 'hydraulic jump'. The matter would be referred to John Tibaldi for further investigation.	Correspondence	NGA
	3:55 PM	TM rang John Tibaldi to discuss the 'swirling' phenomenon identified by Matthew O'Reilly. Effect is at D/S end of plunge pool and is almost certainly a 'hydraulic jump'. JT advised the issue was not of concern unless the phenomenon moves toward the flip bucket.	Correspondence	NGA
	4:05 PM	TM phoned Matthew O'Reilly at Wivenhoe Dam to pass on advice that John Tibaldi had no concerns about the 'hydraulic jump' phenomenon identified by him earlier today.	Correspondence	NGA
	4:50 PM	Brett Myatt phoned the FOC. TM advised Brett that the current release strategy from Wivenhoe Dam (and therefore flows past the Mount Crosby WTPs) would be maintained until at least Monday (17/1).	Correspondence	NGA
	5:50 PM	Rob Drury rang John Tibaldi enquiring when the bridges to the east of Lake Wivenhoe would be clear of floodwater. JT advised all but the Sandy Ck - A&PM Conroy Bridge on the Wivenhoe Somerset Rd would be clear by tomorrow (Sat) morning.	Correspondence	NGA
	7:00 PM	FOC change over.	Other	KH
	2:15 AM	Somerset directive #40 issued • Open Gate 5 from 5.5 metres to 6.0 metres at 02:30.	Directive	KH
	8:40 AM	Rob Drury rang. Terry advised strategy to possibly go below FSL at Wivenhoe by Thursday.	Correspondence	AN
	8:42 AM	Peter Burrows rang to advise that the media come into the FOC today to take photos.	Correspondence	AN
	10:20 AM	Wivenhoe directive #41 issued. Open Gate 3 from 6.0m to 6.5m at 10:30.	Directive	AN
	11:30 AM	Rob Drury rang to request a summary of the Operations Manual for Wivenhoe. Terry to provide after checking with all duty engineers.	Correspondence	AN
	12:12 PM	Rob Drury rang to advise of a phone hook-up with the Minister and Peter Burrows at 2:00pm, and requested that RA be in at the FOC at that time.	Correspondence	AN
	12:20 PM	Peter Burrows rang to confirm a phone hook-up with the Minister and Peter Burrows at 2:00pm.	Correspondence	AN
	12:55 PM	Terry Malone advised Rob Ayre to come into the FOC for the phone hook-up at 2:00pm.	Correspondence	AN
	13:10 AM	Peter Allen phoned about the Wivenhoe Flood manual summary. Terry Malone told Peter that the summary is with the other duty engineers for checking before issuing.	Correspondence	AN
Sunday, 16 January 2011	1:15 PM	Rob Drury rang with some questions on the Wivenhoe Flood manual summary.	Correspondence	AN
	1:45 PM	Rob Ayre and John Tibaldi arrived at the FOC for the 2:00pm phone hook-up.	Correspondence	AN
	2:00 PM	Phone hook-up with TM, RA, JT with Rob Drury, Peter Allen, Peter Boroughs, Joh Bradley and Bob Reilly to discuss a report for the minister by COB Sunday.	Correspondence	AN
	4:30 PM	Wivenhoe directive #42 issued. Open Gate 2 from 6.0m to 6.5m at 10:30.	Directive	AN
	5:00 PM	Rob Drury arrived to help write report for minister briefing.	Correspondence	AN
	7:30 PM	Doug from Wivenhoe called to discuss strategy for the next 12 hours.	Correspondence	DP
	10:22 PM	Directive #43 sent to Doug at Wivenhoe: Please undertake the following gate operations commencing at 22:00 on 15/01/2011 • Open Gate 4 from 6.0 metres to 6.5 metres at 22:00. Please advise the Flood Operations Centre by fax once you have completed these operations.	Directive	DP
	2:45 AM	Directive #44 sent to Doug at Wivenhoe: Please undertake the following gate operations commencing at 04:00 on 16/01/2011 • Open Gate 1 from 6.0 metres to 6.5 metres at 04:00. Please advise the Flood Operations Centre by fax once you have completed these operations.	Directive	DP

DATE	TIME	ACTION	CATEGORY	INITIALS
	4:12 AM	Called Doug at Wivenhoe to confirm directive received via email. Directive being actioned ASAP.	Correspondence	DP
	7:10 AM	Anthony Dagan (Somerset Dam) emailed floodcentre indicating he believed floodcentre phones were out. Tried to contact Ag by office and mobile phones with no success (Teistra message bank on office phone and Ag's message on mobile). Floodcentre phones were checked - working OK. Problem is with Somerset phones. Believe fax also not receiving. Ag emailed to confirm they have local calls but no STD. Continued checking mobile - no response.	Correspondence	BS
	8:15 AM	Directive #45 sent to Matt at Wivenhoe: Please undertake the following gate operations commencing at 09:00 on 16/01/2011 • Open Gate 5 from 6.0 metres to 6.5 metres at 09:00 on 16/01/2011.. Please advise the Flood Operations Centre by fax once you have completed these operations.	Directive	DP
	8:20 AM	Called Matt at Wivenhoe to confirm directive 45 received. Confirmed not received - busy status on fax confirmation. Confirmed directive received via email.	Correspondence	BS
	9:05 AM	Directive #12 sent to Ag at Somerset: Please undertake the following operations: • Fully close Sluice N at 10:00. Please confirm this gate operation by fax once you have completed the requested operations.	Directive	BS
	9:40 AM	Retried all phones at Somerset - no response. Ag emailed to confirm that all phones are down at Wivenhoe. Email is still working and he will be checking emails every hour on the hour.	Correspondence	BS
	10:20 AM	Email confirmation received that Somerset Directive #12 implementation has been completed.	Correspondence	BS
	11:30 AM	FOC contacted by police (Robbie Goodger - ph [REDACTED] notifying that the Wivenhoe viewing area has been damaged. Rob Ayre unable to contact Wivenhoe staff (Matt) - message left. Then contacted Doug Grigg, who confirmed that the area is damaged and has been locked off and 2 security guards are on site. It won't be opened until the water level falls and a full inspection of the structure has been completed. Rob Ayre confirmed this with police, who reported that there was damage to safety rails and water supply to toilets. Matt also responded to Rob's call and confirmed the details.	Correspondence	BS
	12:15 PM	Directive #46 sent (fax and email) to Matt at Wivenhoe (confirmed by phone): Please undertake the following gate operations commencing at 13:00 on 16/01/2011 • Open Gate 3 from 6.5 metres to 7.0 metres at 13:00 on 16/01/2011.. Please advise the Flood Operations Centre by fax once you have completed these operations.	Directive	BS
	12:30 PM	Phone call from Matt (Wivenhoe) - neither fax nor email received. Verbal instruction given to implement gate operation as per Directive #46 and email resent.	Correspondence	BS
	12:40 PM	Ian Holland (contract programmer) called to advise that the back-up Linux box "Namah" at Mineral House is showing file system corruption errors, so the FCC is effectively without backup. The hydraulic model in the RTFN is missing because two Fortran programs "Modcom 2" and "Model" have not been ported to the Linux box.	Correspondence	BS
	12:55 PM	Rob Ayre advised Warren Shallcross about the situation at Mineral House, and he will visit the backup operations centre ASAP.	Correspondence	BS
	1:10 PM	Ag (Somerset) called to report that the phones are now working.	Correspondence	BS
	2:40 PM	Terry Malone spoke to Rob Ayre. Grid manager wants a summary of flood volumes and peak discharges.	Correspondence	BS
	3:00 PM	Warren Shallcross called - confirmed with Rob Ayre that the computer system at Mineral House has been rebooted and is functional.	Correspondence	BS
	3:10 PM	Rob Drury rang to confirm current discharges. Confirmed 600 cumecs for Somerset and 3500 cumecs for Wivenhoe (approx).	Correspondence	BS
	3:15 PM	Directive #47 sent (fax and email) to Matt at Wivenhoe (confirmed by phone): Please undertake the following gate operations commencing at 16:00 on 16/01/2011 • Open Gate 2 from 6.5 metres to 7.0 metres at 16:00 on 16/01/2011. Please advise the Flood Operations Centre by fax once you have completed these operations.	Directive	BS
	4:00 PM	Directive #47 implemented - Gate 2 opened to 7.0 m.	Correspondence	BS
	6:45 PM	Wivenhoe Directive #48 sent (fax and email) to Wivenhoe Dam. Open gate 4 from 6.5 metres to 7 metres at 20:00 on 16/1/2011.	Directive	MT
	6:52 PM	Rob Ayre spoke with Doug Grigg (Wivenhoe Dam) about Directive #48 Wivenhoe strategy. Doug confirmed receipt of Directive.	Correspondence	MT
	7:00 PM	FOC change over.	Other	MT

DATE	TIME	ACTION	CATEGORY	INITIALS
Monday, 17 January 2011	9:30 PM	Somerset Directive #13 sent (fax and email) to Somerset Dam. Fully close Sluice K at 22:00 on 16/1/2011. Fully close Sluice M at 03:00 on 17/1/2011. Fully close Sluice L at 07:00 on 17/1/2011. Fully open Regulator 12 at 07:15 on 17/1/2011.	Directive	MT
	10:00 PM	Doug Grigg (Wivenhoe Dam) called to inform 3 floor panels missing from bulks.	Correspondence	MT
	7:15 AM	Rob Drury called to get Sit Rep. Advised that Somerset should remain mobilised until further notice	Correspondence	LVB
	7:35 AM	Agg Duggan called - discussed strategy i.e. operate cone valves only from now on	Correspondence	LVB
	9:15 AM	Brett Myatt from Mt Crosby called to find out about strategy for Wivenhoe shut down. Informed him that we will start closing down mid afternoon and aiming to have it closed by Wednesday	Correspondence	LVB
	9:35 AM	Rob Drury called to enquire when closing down will start and reminded us to inform Councils	Correspondence	LVB
	10:00 AM	Advise Peter Allen about inconsistency between readings from BoM and actual HW gauges	Correspondence	LVB
	10:15 AM	Tony Jacobs SRC was contacted and advised gate close will commence this afternoon and Fernvale Bridge will be out of the water sometime Tuesday morning	Correspondence	LVB
	10:20 PM	Chris Lavin BCC was contacted (left message) advising gate close will commence this afternoon.	Correspondence	LVB
	10:20 PM	Tony Trace ICC was contacted (left message) advising gate close will commence this afternoon.	Correspondence	LVB
	11:15 PM	Called Bret Myatt to inform him that flow in Lockyer is 75m3/s and falling.	Correspondence	LVB
	11:15 PM	Talked to Ken Morris BCC. Advised him about gate closure. He mentioned that BCC will not provide any info on flood recurrence until they discussed with FoC.	Correspondence	LVB
	11:20 AM	Rob Dury called - Council wants to know draw down rates, so they can determine the effects on Coronation Dr. JR informed RD that Ken did not raise this when they spoke 10 mins before.	Correspondence	LVB
	11:20 AM	Peter Burrows called saying he will email a revised copy of Michael O'Brain's document	Correspondence	LVB
	12:20 PM	JR contacted BCC to get an update on Coro Dr situation. JR spoke to Ken Morris. Ken advised he had spoken to BCC Geotec Officers and they had advised that @ this stage as Coro Dr was back within the banks that they could not see an immediate problem. Some bank slumping have been identified further up the river. Council would like the recession of flow to be as flat as practicable but also that releases be as small as possible @ the Port Office gauge by the time of the high tide on Friday. This is consistent with our current strategy of closing releases by Wednesday 20 Jan 2010.	Correspondence	LVB
	12:30 PM	Rob Drury called, requesting an update on discussions with BCC. He requested that BCC confirm the discussion of 12:20 in writing.	Correspondence	LVB
	1:01 PM	Rob Drury called, saying Morton Bay wanted to know if there will be any more releases from NPD. JR said nil planned unless we get more rain.	Correspondence	LVB
	2:00 PM	Send directive No 49 to Wivenhoe for gate closures for the next 80 minutes • Close Gate 4 from 7.0 metres to 6.5 metres at 14:00 on 17/01/2011. • Close Gate 2 from 7.0 metres to 6.5 metres at 14:20 on 17/01/2011 • Close Gate 3 from 7.0 metres to 6.5 metres at 14:40 on 17/01/2011 • Close Gate 5 from 6.5 metres to 6.0 metres at 15:00 on 17/01/2011	Directive	LVB
	2:15 PM	Rob Drury called, asking for dates and times for Wivenhoe operations at the peak of the flood.	Correspondence	LVB
	3:15 PM	Peter Badley from BoM called to confirm that he received the info on the discrepancy in the auto level recorder	Correspondence	LVB
	3:15 PM	Send directive No 50 to Wivenhoe for gate closures • Close Gate 4 from 6.5 metres to 6.0 metres at 15:20 on 17/01/2011. • Close Gate 2 from 6.5 metres to 6.0 metres at 15:40 on 17/01/2011	Directive	LVB
	4:15 PM	Jim from BoM - they have not received manual observations for days	Correspondence	LVB
	6:00 PM	Send directive No 51 to Wivenhoe for gate closures on the half hour • Close Gate 1 from 6.5 metres to 6.0 metres at 16:00 on 17/01/2011 • Close Gate 3 from 6.5 metres to 6.0 metres at 16:20 on 17/01/2011. • Close Gate 5 from 6.0 metres to 5.5 metres at 16:40 on 17/01/2011 • Close Gate 1 from 6.0 metres to 5.5 metres at 17:00 on 17/01/2011 • Close Gate 4 from 6.0 metres to 5.5 metres at 17:20 on 17/01/2011 • Close Gate 2 from 6.0 metres to 5.5 metres at 17:40 on 17/01/2011 • Close Gate 3 from 6.0 metres to 5.5 metres at 18:00 on 17/01/2011	Directive	LVB

DATE	TIME	ACTION	CATEGORY	INITIALS
	8:30 PM	Send directive No 52 to Wivenhoe for gate closures <ul style="list-style-type: none"> • Close Gate 5 from 5.5 metres to 5.0 metres at 18:30 on 17/01/2011 • Close Gate 1 from 5.5 metres to 5.0 metres at 19:00 on 17/01/2011. • Close Gate 4 from 5.5 metres to 5.0 metres at 19:30 on 17/01/2011 • Close Gate 2 from 5.5 metres to 5.0 metres at 20:00 on 17/01/2011 • Close Gate 3 from 5.5 metres to 5.0 metres at 20:30 on 17/01/2011 • Close Gate 5 from 5.0 metres to 4.5 metres at 21:00 on 17/01/2011 • Close Gate 1 from 5.0 metres to 4.5 metres at 21:30 on 17/01/2011 • Close Gate 2 from 5.0 metres to 4.5 metres at 22:00 on 17/01/2011 • Close Gate 4 from 5.0 metres to 4.5 metres at 22:30 on 17/01/2011 • Close Gate 5 from 4.5 metres to 4.0 metres at 22:00 on 17/01/2011 	Directive	LVB
	9:30 PM	Wivenhoe directive no.53 emailed to dam operators (fax machine at Wivenhoe inoperative). <ul style="list-style-type: none"> • Close Gate 5 from 4.5 metres to 4.0 metres at 23:00 on 17/01/2011 • Close Gate 1 from 4.5 metres to 4.0 metres at 23:30 on 17/01/2011 • Close Gate 5 from 4.0 metres to 3.5 metres at 00:00 on 18/01/2011 • Close Gate 1 from 4.0 metres to 3.5 metres at 00:30 on 18/01/2011 • Close Gate 4 from 4.5 metres to 4.0 metres at 01:00 on 18/01/2011 • Close Gate 2 from 4.5 metres to 4.0 metres at 01:30 on 18/01/2011 • Close Gate 5 from 3.5 metres to 3.0 metres at 02:00 on 18/01/2011 • Close Gate 1 from 3.5 metres to 3.0 metres at 03:00 on 18/01/2011 • Close Gate 3 from 5.0 metres to 4.5 metres at 04:00 on 18/01/2011 • Close Gate 4 from 4.0 metres to 3.5 metres at 05:00 on 18/01/2011 • Close Gate 2 from 4.0 metres to 3.5 metres at 06:00 on 18/01/2011 • Close Gate 5 from 3.0 metres to 2.5 metres at 07:00 on 18/01/2011 • Close Gate 1 from 3.0 metres to 2.5 metres at 08:00 on 18/01/2011 	Directive	JW
Tuesday, 18 January 2011	12:30 AM	Peter Borrows called to inform that rapidly dropping water level at Lowood was causing issues with pumping for WTP. Asked if FOC could call John Granzien and then notify him via txt of the outcome.	Correspondence	JW
	12:35 AM	FOC contacted John Granzien in regards to pumping issues at Lowood. Terry decided to halt all gate operations until further notice in order to ensure security of water supply to Lowood.	Correspondence	JW
	12:45 AM	Wivenhoe directive #54 issued; halting all gate operations at Wivenhoe until further notice.	Directive	JW
	1:00 AM	Txt message sent to Peter Borrows to advise of cessation of Wivenhoe gate operations until further notice.	Correspondence	JW
	2:00 AM	BCC advise that the recession at Coronation Drive is not an issue with regards to bank stability	Correspondence	JW
	5:00 AM	Doug Grigg called to advise that Fernvale Bridge was emerging from river. Current release 2054 cumecs.	Correspondence	JW
	5:40 AM	Doug Grigg called to advise that the approach to the Fernvale Bridge from the Fernvale side was still underwater due to water backed up in the quarry.	Correspondence	JW
	5:45 AM	Called John Granzien to advise that Wivenhoe gate operations would recommence close down sequence from 9am as per original strategy. John to advise FOC if pumping operation at Lowood would benefit from additional 3 - 6 hours delay in gate operations.	Correspondence	JW

DATE	TIME	ACTION	CATEGORY	INITIALS
	6:15 AM	<p>Situation Report 06:15 18 January 2011</p> <p><u>Rainfall</u> There has been no significant rainfall in the last 24 hours and no significant rainfall is expected in the next twenty-four hours. Mostly fine conditions are expected over the weekend, but showers will return early next week.</p> <p><u>Somerset/Wivenhoe</u> At 16:00 Monday Somerset Dam was 99.02 mAHD and steady. The last sluice gate was closed at 07:00 17/01/2011 and one regulator remains open managing the base-flow into the Dam. Somerset Dam peaked at 105.11 mAHD at 18:00 on Wednesday 12 January 2011.</p> <p>At 06:00 Tuesday Wivenhoe Dam was 67.82 mAHD and continuing to fall slowly. Releases were held constant overnight at about 2,050 m3/s to assist water supply pumping at Lowood. Following discussions with water supply operators, it has been decided to resume closing gates at 09:00 Tuesday before final closure on Thursday morning. The Dam will be near full supply and releases will be made through the regulator to account for ongoing base-flow.</p> <p>Wivenhoe Dam peaked at 74.97 mAHD at 19:00 on Tuesday 11 January 2011 with a corresponding discharge of 7,450 m3/s.</p>	Situation Report	KP
	7:25 AM	Doug Grigg (Wivenhoe) called to advise that Surveyor Bill Hewitt is taking a routine deformation survey	Correspondence	KP
	7:35 AM	Ken Morris (BCC) enquired about preliminary assessment of magnitude of flood. Ken suggested that SEQWater, BOM and BCC should arrive at a consensus regarding any assessment on the magnitude of the event. Rob Ayre agreed. Ken also enquired if we had done an assessment of the effects of the dam on peak flow. Rob indicated that our prelim figure was 13000 cumec peak at City Gauge without the Dams.	Correspondence	KP
	8:19 AM	<p>Wivenhoe directive no.55 faxed and emailed to dam operators</p> <ul style="list-style-type: none"> • Close Gate 4 from 4.5 metres to 4.0 metres at 09:00 on 18/01/2011 • Close Gate 2 from 4.5 metres to 4.0 metres at 09:30 on 18/01/2011 • Close Gate 5 from 3.5 metres to 3.0 metres at 10:00 on 18/01/2011 • Close Gate 1 from 3.5 metres to 3.0 metres at 10:30 on 18/01/2011 • Close Gate 3 from 5.0 metres to 4.5 metres at 11:00 on 18/01/2011 • Close Gate 4 from 4.0 metres to 3.5 metres at 11:30 on 18/01/2011 • Close Gate 2 from 4.0 metres to 3.5 metres at 12:00 on 18/01/2011 	Directive	KP
	8:25 AM	Matthew O'Reilly (Wivenhoe) called to acknowledge Directive 55	Correspondence	KP
	10:10 AM	Rob Townsley (SEQWater at Mt Crosby Phone 0419667634) has requested some forward projections for flows at Mt Crosby Weir for the next 48 hours. They are looking at sludge dilution.	Correspondence	KP
	10:15 AM	Rob Ayre called Rob Townsley back to provide the following info re projected flows at Mt Crosby Weir: 18/1/2011 10:00 - 2300 cumecs 19/1/2011 10:00 - 1130 cumecs 20/1/2011 10:00 - 360 cumecs	Correspondence	KP
	10:19 AM	Mark Gibson from BCC Flood Information Centre called to advise that Campbell Newman wants an indication of what the flood would have been without dams and asked if the figure of 13000 cumecs provided to Ken Morris earlier could be released to the public.	Correspondence	KP
	10:24 AM	Rob Ayre spoke to Rob Drury to ask SEQWater's policy re release of information above. Rob Drury to confirm with his comms people.	Correspondence	KP
	10:30 AM	Paul Bird (SEQWater comms officer) called to advise that the minister's office has recommended that no info regarding releases from WD be released to anybody. Paul Bird will now communicate this response to the BCC Flood Info Centre and specifically Mark Gibson.	Correspondence	KP
	10:36 AM	Tony Jacobs (Somerset RC) requested info re when Burtons Bridge is expected to be free from inundation. Under our current shutdown sequence, Rob Ayre advised that we expect Burtons to be free around midnight on Wed evening. Tony also advised that the bridge on New England Creek will become flood free at around the same time. Tony indicated that at 8am today the approaches to Fernvale were clear of water. However, powerlines and silt need to be removed. He expects the bridge to be open this afternoon.	Correspondence	KP

DATE	TIME	ACTION	CATEGORY	INITIALS
	10:55 AM	Barton Maher (SEQWater) called to confirm that we received the hydraulic model from WRM. (affirmative)	Correspondence	KP
	12:05 PM	Peter Borrows (SEQWater) called to advise tat he and Bob Reilly (DERM) will come come and visit the FOC at 2:30 this afternoon.	Correspondence	KP
	12:06 PM	Wivenhoe directive no.56 faxed and emailed to dam operators <ul style="list-style-type: none"> • Close Gate 5 from 3.0 metres to 2.5 metres at 12:30 on 18/01/2011 • Close Gate 1 from 3.0 metres to 2.5 metres at 13:00 on 18/01/2011 • Close Gate 4 from 3.5 metres to 3.0 metres at 14:00 on 18/01/2011 • Close Gate 2 from 3.5 metres to 3.0 metres at 14:30 on 18/01/2011 • Close Gate 4 from 3.0 metres to 2.5 metres at 15:00 on 18/01/2011 • Close Gate 2 from 3.0 metres to 2.5 metres at 15:30 on 18/01/2011 	Directive	KP
	12:26 PM	Rob Drury called to confirm programmed final shutdown. Rob Ayre advised scheduled for 9am Thursday 20/1 2011. Rob Drury to confirm with Rohan Thorogood re fish recovery.	Correspondence	KP
	1:22 PM	Confirmed with Mat O'Reilly that gate closure sequence was in accordance with directive as email received from WVD re 13:00 closure was incorrect.	Correspondence	KP
	2:00 PM	John Tibaldi called for an update of the closedown sequence	Correspondence	KP
	2:15 AM	Rob Ayre called Greg Roads of WRM re hydraulic model of Brisbane River...login and password not working...Greg not available at present	Correspondence	KP
	2:30 PM	Peter Borrows (SEQWater) and Bob Reilly (DERM) visited FOC to check current situation and to pass on thanks for job performed so far. Also requested that we hold further gate operations until problems at Lowood Pump Station are resolved.	Other	KP
	2:55 PM	Rob Ayre called Mat O'Reilly to direct a hold in gate operations...to be confirmed by email	Directive	KP
	3:00 PM	Wivenhoe directive no.57 emailed to dam operators Please cease gate operations as at 15:00 on 18/01/2011 so as to accommodate the repairs at Lowood pump station. Current gate settings of :- Gate 1 – Open 2.5 metres Gate 2 – Open 3.0 metres Gate 3 – Open 4.5 metres Gate 4 – Open 3.0 metres Gate 5 – Open 2.5 metres to be maintained for up to 12 hours	Directive	KP
	4:05 PM	Rob Ayre called Mal Lane to alert him to the possibility of operating North Pine Dam with incoming storms.	Correspondence	KP
	4:30 PM	Rob Drury rang noting the current storms and requested that Rob Ayre call Tony Martini (Moreton RC) to advise of the possibility of operating North Pine Dam.	Correspondence	KP
	4:34 PM	Email from Peter Borrows containing Bob Reilly's approval to vary the flood release regime to enable a constant flow for the Lowood WTP offtake.	Correspondence	KP
	4:45 PM	Rob Ayre rang Tony Martini (Moreton RC) to advise of the possibility of operating North Pine Dam in the next day or so if predicted falls of up to 50mm occurred.	Correspondence	KP

DATE	TIME	ACTION	CATEGORY	INITIALS
	5:45 PM	<p>Situation Report 18:00 18 January 2011</p> <p><u>Rainfall</u> There has been no significant rainfall in the last 24 hours and no significant rainfall is expected in the next twenty-four hours. Mostly fine conditions are expected over the weekend, but showers will return early next week.</p> <p><u>Somerset/Wivenhoe</u> At 16:00 Monday Somerset Dam was 99.02 mAHD and steady. The last sluice gate was closed at 07:00 17/01/2011 and one regulator remains open managing the base-flow into the Dam. Somerset Dam peaked at 105.11 mAHD at 18:00 on Wednesday 12 January 2011.</p> <p>At 06:00 Tuesday Wivenhoe Dam was 67.82 mAHD and continuing to fall slowly. Releases were held constant overnight at about 2,050 m3/s to assist water supply pumping at Lowood. Following discussions with water supply operators, it has been decided to resume closing gates at 09:00 Tuesday before final closure on Thursday morning. The Dam will be near full supply and releases will be made through the regulator to account for ongoing base-flow.</p> <p>Wivenhoe Dam peaked at 74.97 mAHD at 19:00 on Tuesday 11 January 2011 with a corresponding discharge of 7,450 m3/s.</p>	Situation Report	KP
	6:25 PM	Rob Drury called to discuss situation report for North Pine.	Correspondence	KP
	6:57 PM	JT phoned Tony Martini at MBRC. Message left regarding plans to open NPD gates this evening as the lake level is approaching trigger level with more rain / showers forecast.	Correspondence	NGA
	7:02 PM	JT phoned Malcolm Lane regarding mobilising for NPD gate opening this evening. Tentative plan is for commencement of gate opening at 20:30.	Correspondence	NGA
	7:05 PM	JT phoned the Duty Officer (Charlie) at MBRC regarding the planned imminent opening of the NPD gates. Target time is 20:30 if Council has the barriers in place closing Youngs Crossing Road and the dam is fully manned.	Correspondence	NGA
	7:05 PM	Neville Ablitt phoned Rob Drury to provide an update on the NPD mobilisation and proposed gate openings.	Correspondence	NGA
	7:07 PM	JT phoned Murray Dunstan to advise of planned gate opening of NPD this evening. Cessation of operations (i.e. gate closure) is expected to be arranged for tomorrow morning (19/1) in order for Youngs Crossing Road to be opened to peak hour traffic. JT advised MD to plan for an early morning fish recovery exercise at NPD.	Correspondence	NGA
	7:10 PM	Tony Martini from MBRC returned phone call to JT. JT repeated information already conveyed to MBRC Duty Officer - Charlie regarding requirement for Youngs Crossing Road to be closed to traffic to allow NPD gates to be operated by 20:30 if possible.	Correspondence	NGA
	7:15 PM	JT phoned Cynthia Crane (Seqwater) regarding JT's inability to access Citrix. Outage (?). Message left.	Correspondence	NGA
	7:15 PM	JT phoned Rob Drury regarding Citrix comms outage. Message left requesting RD to intervene to have the problem fixed.	Correspondence	NGA
	7:20 PM	Lief from IT (Seqwater) rang and 'reset' Citrix for JT.	Correspondence	NGA
	7:30 PM	JT phoned Malcolm Lane at NPD to confirm gate opening arrangements for 20:30 if Youngs Crossing Road has been closed to traffic by Council at that time.	Correspondence	NGA
	7:35 PM	<p>North Pine Dam directive no.31 faxed to dam operators</p> <ul style="list-style-type: none"> • Gate C: Open to 1 increment at 2030 - Tuesday 18/1/2011 • Gate E: Open to 1 increment at 2045 • Gate A: Open to 1 increment at 2100 • Gate D: Open to 1 increment at 2115 • Gate B: Open to 1 increment at 2130 	Directive	NGA
	7:40 PM	<p>Rob Drury rang the FOC to enquire if the Citrix issue was sorted. Citrix connection now functioning.</p> <p>JT expressed concern about the current release strategy for Wivenhoe Dam. If the current release rate is maintained (set to accommodate Lowood temporary raw water pumps), the model indicates that the lake level could fall well below FSL (~ EL 65.00 ??).</p>	Correspondence	NGA
	7:42 PM	JT phoned Jim Pruss (Seqwater) to seek advice on who could supply the most up-to-date status report on the current situation at Lowood regarding river levels and pumping activities to supply the WTP. JP suggested John Smith (?).	Correspondence	NGA

DATE	TIME	ACTION	CATEGORY	INITIALS
	7:45 PM	JT phoned Mick Drews (Seqwater) seeking info Re: Lowood. Mick referred JT to Daniel Roche.	Correspondence	NGA
	7:50 PM	JT phoned Daniel Roche. - reportedly on site at Lowood PS. No answer. Message left.	Correspondence	NGA
	7:52 PM	JT phoned John Smith - Lowood WTP operator to enquire as to current status regarding temporary pumping arrangements of raw water from the Brisbane River.	Correspondence	NGA
	7:55 PM	Agg Dagan (Somerset Dam operator) phoned the FOC from home seeking the Duty Engineer's intentions for operations at Somerset Dam overnight. JT requested a Gauge Board reading of the lake level and advised that an operations strategy for Somerset Dam would be addressed within 30 minutes - following satisfactory mobilisation of NPD.	Correspondence	NGA
	8:00 PM	Mark Millman (Seqwater - IT) phoned JT to check status of Citrix connection. Citrix connection is functioning.	Correspondence	NGA
	8:05 PM	Agg Dagan phoned from Somerset Dam. Current lake level is EL 98.95 Unchanged from lake level at 15:35 today.	Correspondence	NGA
	8:05 PM	JT phoned Graham Keegan at home. Jt requested GK to visit Lowood pumping intake site and report on status as unable to contact Daniel Roche.	Correspondence	NGA
	8:11 PM	JT phoned Agg Dagan (Somerset Dam operator). Agg to send fax in with lake level. Likely strategy will be to close off the regulator overnight and re-assess the situation in the morning.	Correspondence	NGA
	8:12 PM	JT conversed with Peter Pennell (Seqwater). PP advised that arrangements are in hand to move the temporary pumps at the Brisbane River site at Lowood. The pumps are being re-located downhill to maintain extraction of raw water from the river to supply the Lowood WTP.	Correspondence	NGA
	8:15 PM	Daniel Roche contacted JT. The temporary raw water pumps at Lowood are being moved closer to the river - chasing the anticipated lower level in the river due to reduced releases from Wivenhoe.	Correspondence	NGA
	8:18 PM	Rob Drury rang the FOC to seek an update on operations at all 3 storages.	Correspondence	NGA
	8:25 PM	JT confirmed on-site manning arrangements at Lowood with Graham Keegan.	Correspondence	NGA
	8:30 PM	Somerset Dam operator advised FOC by fax that Regulator #12 had been closed as per verbal advice from JT.	Information	NGA
	8:40 PM	Wivenhoe directive no.58 emailed to dam operators • Close Gate 4 from 3.0 metres to 2.5 metres at 20:45 on 18/01/2011 • Close Gate 2 from 3.0 metres to 2.5 metres at 21:15 on 18/01/2011	Directive	NGA
	8:35 PM	JT contacted Doug G. at Wivenhoe. Gate closing directive pending.	Correspondence	NGA
	8:55 PM	Malcolm Lane phoned the FOC. MBRC have only just closed off Youngs Crossing Road. By the time the siren is sounded, the gate openings in Directive 31 scheduled to commence at 20:30 will be delayed by 45 minutes.	Correspondence	NGA
	9:00 PM	Charlie, the Duty Officer at MBRC, rang JT to advise that Youngs Crossing Road was now closed. JT advised Charlie that it was intended to maintain releases from NPD through until 5:00am Wednesday 19/1. With this operating strategy, Young's Crossing Road should be able to be re-opened to traffic by 7:00am tomorrow.	Correspondence	NGA
	9:05 PM	Note: Wivenhoe Dam fax machine is still inoperative	Correspondence	NGA
	9:08 PM	JT phoned Murray Dunstan to advise of planned gate opening of NPD this evening. Closure is	Correspondence	NGA
	9:15 PM	Rob Drury phoned JT to discuss the Wivenhoe release strategy and its potential to effect bank slumping at Coronation Drive. The changed situation at Lowood means that the reduction in Brisbane River levels will now be far more even. RD advised that Coronation Drive is no longer a concern.	Correspondence	NGA
	9:30 PM	Neville Ablitt phoned BCC and made contacted with Leanne from BCC's Flood Operations (Disaster Management) Centre. JT requested confirmation that Coronation Drive would not be adversely affected by way of bank slumping if releases from Wivenhoe were terminated on Wednesday afternoon. JT requested Leanne to investigate and call back the FOC.	Correspondence	NGA

DATE	TIME	ACTION	CATEGORY	INITIALS
	9:35 PM	Wivenhoe directive no.59 emailed to dam operators • Close Gate 5 from 2.5 metres to 2.0 metres at 22:00 on 18/01/2011 • Close Gate 1 from 2.5 metres to 2.0 metres at 22:30 on 18/01/2011	Directive	NGA
	9:38 PM	Neville Ablitt contacted Doug G. at Wivenhoe Dam by 2-way radio to confirm his receipt of e-mail containing Directive #59. Doug also confirmed that the Wivenhoe fax machine is still inoperative. All written comms to be by e-mail.	Correspondence	NGA
	9:50 PM	JT phoned Rob Drury. Wivenhoe release strategy discussed regarding Lowood WTP temporary offtake level, concerns about Coronation Drive bank slumping and lake level at cessation of releases if targeted for tomorrow afternoon.	Correspondence	NGA
	9:53 PM	Chris Thorley from BCC's Flood Operations (Disaster Management) Centre phoned JT. Wivenhoe release strategy and effect on Coronation Drive discussed. BCC have no concerns about imminent cessation of Wivenhoe releases. JT explained that it was more likely that the tidal variation at Toowong would have a greater impact on the river banks than the Wivenhoe releases.	Correspondence	NGA
	10:00 PM	JT phoned Malcolm Lane at NPD to discuss release strategy. i.e. planned gate openings to setting #2 followed by closure sequence to be completed by early tomorrow morning (19/1).	Correspondence	NGA
	10:02 PM	RD phoned JT. Release strategy and final lake level at gate closure at Wivenhoe discussed.	Correspondence	NGA
	10:14 PM	Graham Keegan phoned JT. Situation at Lowood is under control. JT advised Graham that the releases at Wivenhoe are planned to cease by early afternoon tomorrow (19/1).	Correspondence	NGA
	10:15 PM	North Pine Dam directive no.32 faxed to dam operators • Gate C: Open to 2 increments at 2230 - Tuesday 18/1/2011 • Gate E: Open to 2 increments at 2245 • Gate A: Open to 2 increments at 2300 • Gate D: Open to 2 increments at 2315 • Gate B: Open to 2 increments at 2330	Directive	NGA
	10:40 PM	Wivenhoe directive no.60 emailed to dam operators • Close Gate 5 from 2.0 metres to 1.5 metres at 23:00 on 18/01/2011 • Close Gate 1 from 2.0 metres to 1.5 metres at 23:30 on 18/01/2011 • Close Gate 3 from 4.5 metres to 4.0 metres at 00:00 on 19/01/2011 • Close Gate 4 from 2.5 metres to 2.0 metres at 00:30 on 19/01/2011 • Close Gate 2 from 2.5 metres to 2.0 metres at 01:00 on 19/01/2011 • Close Gate 5 from 1.5 metres to 1.0 metres at 01:30 on 19/01/2011 • Close Gate 1 from 1.5 metres to 1.0 metres at 02:00 on 19/01/2011 • Close Gate 4 from 2.0 metres to 1.5 metres at 02:30 on 19/01/2011 • Close Gate 2 from 2.0 metres to 1.5 metres at 03:00 on 19/01/2011 • Close Gate 5 from 1.0 metres to 0.5 metres at 03:30 on 19/01/2011 • Close Gate 1 from 1.0 metres to 0.5 metres at 04:00 on 19/01/2011 • Close Gate 4 from 1.5 metres to 1.0 metres at 04:30 on 19/01/2011 • Close Gate 2 from 1.5 metres to 1.0 metres at 05:00 on 19/01/2011	Directive	NGA
	11:45 PM	North Pine Dam directive no.33 faxed to dam operators • Gate B: Close to 1 increment at 0245 - Wednesday 19/1/2011 • Gate D: Close to 1 increment at 0300 • Gate A: Close to 1 increment at 0315 • Gate E: Close to 1 increment at 0330 • Gate C: Close to 1 increment at 0345 • Gate B: Fully Close at 0400 • Gate D: Fully Close at 0415 • Gate A: Fully Close at 0430 • Gate E: Fully Close at 0445 • Gate C: Fully Close at 0500	Directive	NGA
Wednesday 19/01/2011	3:30 AM	JT phoned the Mount Crosby WTP to obtain an update on the status of the Mount Crosby Weir Bridge. It is currently clear of water and came out of inundation approx 14:00 yesterday (18/1). The bridge has reportedly suffered some damage. Details unknown.	Correspondence	NGA

DATE	TIME	ACTION	CATEGORY	INITIALS
	4:38 AM	JT advised Doug G. at Wivenhoe Dam that the strategy for further gate closures after 0500 was dependant on the outcome of a discussion with Peter Borrows anticipated within the hour. Doug advised that the Fernvale Bridge was clear of floodwater but that it had powerlines down on /around it.	Correspondence	NGA
	5:05 AM	Doug G. from Wivenhoe Dam phoned the FOC to report that some erosion has occurred in the vicinity of the plunge pool downstream of the flip bucket. This has become evident now that the gate releases have been reduced. Some large boulders (~10t) are evident piled up against the bench D/S of the flip bucket. JT will need to inspect the damage ASAP.	Correspondence	NGA
	5:10 AM	JT phoned Peter Borrows to obtain a Govt. view on how long to maintain releases and to where the lake level should be held following closure of all gates. Timing of the gate closure might be dependant on the erosion issue.	Correspondence	NGA
	5:15 AM	JT phoned TM to arrange for TM to relieve JT ASAP in the FOC as he is required to inspect the reported damage at Wivenhoe Dam.	Correspondence	NGA
	5:20 AM	JT phoned Barton Maher (Seqwater) to arrange a joint inspection of the erosion damage at Wivenhoe Dam as reported by Doug G. the dam operator.	Correspondence	NGA
	5:25 AM	Rob Drury phoned JT to obtain an update. JT advised RD that damage has been reported to the area D/S of the flip bucket at Wivenhoe. An inspection ASAP is warranted.	Correspondence	NGA
	5:25 AM	Wivenhoe directive no.61 emailed to dam operators <ul style="list-style-type: none"> • Close Gate 5 from 0.5 metres to fully closed at 5:30 on 19/01/2011 • Close Gate 1 from 0.5 metres to fully closed at 6:00 on 19/01/2011 • Close Gate 4 from 1.0 metres to 0.5 metres at 6:30 on 19/01/2011 • Close Gate 2 from 1.0 metres to 0.5 metres at 7:00 on 19/01/2011 	Directive	NGA
	5:30 AM	JT phoned Peter Allan (Dam Regulator) to advise that damage had been reported at Wivenhoe Dam by the operator. Initial information indicates that large boulders are piled up in the plunge pool D/S of the flip bucket. The source of these boulders is unknown as releases are still continuing from the gates. JT has arranged to inspect the site with Barton Maher in a few hours and an invitation was extended to PA as an interested party to attend the inspection. JT will provide updates as they come to hand.	Correspondence	NGA
	5:35 AM	Doug G. phoned JT on his mobile phone with an update report.	Correspondence	NGA
	8:08 AM	JT phoned TM. Things seem to be O.K. but we will continue to close all gates by this afternoon.	Correspondence	KH
	8:20 AM	TM phoned Flood Warning Centre advising that flood operation for current event will be shut down around lunch time.	Correspondence	KH
	9:23 AM	JT phoned TM asking whether we should run a regulator.	Correspondence	KH
	9:51 AM	TM phoned JT regarding modelling results.	Correspondence	KH
	10:00 AM	TM phoned JT regarding modelling results. TM want to advise Doug G to stop at Gate 3 at 1 metre, but they agree to close as planned and maintain operational release instead of flood release.	Correspondence	KH
	10:15 AM	JT has discussed the event closure with Peter Allen. It was agreed that the flood will be considered closed with the closure of the gates at 1200. At that time, control of the dam will revert to Seqwater. As the low flow channel to the regulator is blocked, the centre gate will be opened to 1 metre to manage on going inflows with the aim of getting to 95% (EL 66.5).	Correspondence	TM
	10:43 AM	Received QPF - 15mm-25mm generally, heavier falls to about 50mm in Brisbane and North Pine catchments.	Other	KH
	11:14 AM	JR phoned TM - Still operational until tonight.	Correspondence	KH
	11:28 AM	Rob Townsley (SEQWater at Mt Crosby) phoned FOC requesting for peak flow at Mt Crosby Weir during the latest event.	Correspondence	KH
	11:36 AM	TM phoned JT confirming that JR and LvB will be on tonight.	Correspondence	KH
	11:45 AM	TM phoned Rob Townsley advising that peak flow over Mt Crosby Weir was about 9150 cumecs.	Correspondence	KH
	11:51 AM	TM phoned (left message with) MBRC regarding potential for closing operation tonight.	Correspondence	KH
	11:52 AM	TM phoned (left message with) Murray Dunstan to call him back.	Correspondence	KH
	11:59 AM	JT phoned TM stating that divers will investigate erosion d/s Wivenhoe Dam today.	Correspondence	KH

DATE	TIME	ACTION	CATEGORY	INITIALS
	1:25 PM	Rob Townsley phoned TM discussing about the information which TM sent.	Correspondence	KH
	1:39 PM	Matthew O'Reilly phoned TM advising Wivenhoe Dam EL is 66.89 m AHD.	Correspondence	KH
	3:21 PM	Kerry (MBRC) phoned wanting AJ Wyllie Bridge to be closed at 9:00 PM rather than 7:00 PM, and stating that she will update 24 hour call centre number. She will send email to confirm all this.	Correspondence	KH
	4:00 PM	Received QPF - 15mm-25mm generally, heavier falls to about 50mm in Brisbane and North Pine catchments.	Other	KH
	7:30 PM	Toni Martini from MBRC called to say that the alternate route @ Petri is open (sooner than the 9 PM forecast)	Correspondence	LVB
	9:10 PM	Called Murray Dunstan to inform him that NPD will be mobilised.	Correspondence	LVB
	9:10 PM	Called Brett Schultz NPD to mobilise. The WL is approaching trigger level for gate opening.	Correspondence	LVB
	9:20 PM	Called MBRC call centre to inform them that NPD will be operated. They called back and advised that they can close Young's crossing by 11 PM. They will confirm once road is closed.	Correspondence	LVB
	9:38 PM	Brett Schultz called to confirm they are ready The gauge reading was 39.54 @ 9:30PM	Correspondence	LVB
Thursday 20/01/2011	12:15 AM	Send Directive 34 to NPD to start opening gates	Directive	LVB
	2:00 AM	Send Directive 35 to NPD to start opening gates	Directive	LVB
	2:15 AM	Tony Martini from MBRC called regarding release at NPD. He was advised that the gates will be open open for a while yet	Correspondence	LVB
	6:50 AM	Maria from MBRC called to find out when the gates on NPD will be shut. They were advised that the gates will only be closed in time for the afternoon peak.	Correspondence	LVB
	7:20 AM	Rob Ayre called Tony Jacobs at SRC to advise of flow in Lockyer Creek. Tony concerned about Burtons Bridge but RA indicated that we will endeavour to keep flows below 400 m3/s.	Correspondence	RA
	7:25 AM	RA called Tony Trace at Ipswich CC and advised of renewed flows in Lockyer Creek and Middle Brisbane R.	Correspondence	RA
	7:40 AM	RA called Chris Lavin at BCC and advised of increased flows in Lockyer Creek and Middel Brisbane. Advised that Savages Crossing and will be Colleges Crossing are inundated. Estimated travel time 30 to 36 hours.	Correspondence	RA
	7:55 AM	RA called NOD and spoke to Doug. Discussed proposed strategy to drain until around 2:00 PM with current gate settings. Requested hourly readings so as to monitor model performance.	Correspondence	RA
	8:00 AM	Mal Lane from NPD called to discuss proposed operations. RA indicated that we will continue as is until 10:00am QPF comes in and then decide from there as to strategy.	Correspondence	RA
	8:40 AM	Rob Drury called enquiring about the timeliness of the notice we gave to MBRC. Rob advised him accordingly.	Correspondence	KH
	8:45 AM	John West called (re Lowood pump station) enquiring time to peak (height and discharge). FOC response was about 9 hours with height of about 3.7 m corresponding to 300 cumecs.	Correspondence	KH
	8:50 AM	John West called (re Lowood pump station) enquiring current height and discharge. Together we estimated that it was about 150 cumecs (50 from Lockyer Creek and 100 from Wivenhoe Dam) corresponding to about 2.4 m.	Correspondence	KH
	9:45 AM	Rob Drury advised Wivenhoe will not be drained to 66.5 m AHD, but will be maintained at or just below FSL.	Correspondence	KH
	10:21 AM	Received QPF - 15mm-25mm generally, heavier falls to about 50mm in Brisbane and North Pine catchments.	Other	KH
	10:30 AM	Rob Drury called enquiring whether closing all releases in Wivenhoe Dam will cause level to exceed gate trigger in the next three day. RA advised that with rain on the ground he expects it not to, however forecast as per QPF is 15-25 mm, so we may need to review that decision tomorrow.	Correspondence	KH
	11:12 AM	Tony Martini (MBRC) called. RA advised all gates will be closed at 2:00 PM.	Correspondence	KH
	11:14 AM	RA phoned Murray Dunstan. They decided to close NPD by 2pm to allow MBRC to open Young's Crossing for afternoon peak.	Correspondence	KH
	11:15 AM	John West called enquiring peak height and discharge at Lowood with Wiv Dam gates closed. We decided to just minus 100 cumecs from previous estimation. He also wants FOC to email him the Lowood rating curve.	Correspondence	KH
	11:33 AM	RA called Mal (re Directive 36)	Correspondence	KH
	11:36 AM	RA called TM. TM will monitor situation overnight and RA will become Duty Eng again tomorrow.	Correspondence	KH
	11:44 AM	Paul Bird (SEQWater) called to confirm whether we have closed all gates at Wivenhoe Dam. KH said yes.	Correspondence	KH
	1:07 PM	Rob Drury called confirming NPD closure.	Correspondence	KH

