

**Audit of Burnett Water Pty Ltd, QLD, Burnett River Dam, EPBC 2001/422**

**Audit site visit date: 25-28 June 2007**

Item #	Ref #	Area for review	Audit findings	Compliance rating	Assessment Issue #
<b>1. CoA 1 Burnett Water Pty Ltd must prepare and submit for the Minister's approval a plan to mitigate impacts of the action on the Black-breasted Button Quail by securing compensatory habitat at Mount Blandy. The Burnett River Dam may not be operated before the plan is approved. The approved plan must be implemented.</b>					
1.1	CoA 1	Have Burnett Water Pty Ltd prepared a plan to mitigate impacts of the action on the Black-breasted Button Quail by securing compensatory habitat at Mount Blandy?	Compensatory habitat secured. Contract of sale dated 28 <sup>th</sup> April 2006, Lot 83, sighted. Contract states land secured to meet EPBC Act requirements. The Contract has been transferred to the Queensland EPA but not registered as variations are currently being negotiated with the EPA. Contract requires EPA to comply with EPBC Act approval conditions. BBBQMP prepared in 2004.	Y	
1.2	CoA 1	Have Burnett Water Pty Ltd submitted the Black-breasted Button Quail Management Plan (BBBQMP) for the Minister's approval?	Submitted for approval	Y	
1.3	CoA 1	Was the Black-breasted Button Quail Management Plan approved by the Minister?	BBBQMP approved 8 <sup>th</sup> October 2004 (letter sighted).	Y	
1.4	CoA 1	Was the Black-breasted Button Quail Management Plan (BBBQMP) approved by the Minister prior to operation of the Burnett River Dam?	Approved prior to operation of the dam in December 2005.	Y	
<b>1.5 BBBQMP Securing Mount Blandy Habitat Actions</b>					
1.5.1	BBBQMP Sect 5.1 & 6.2	Has a nature refuge or reserve tenure to provide long-term protection to the habitat of the BBBQ at Mt Blandy been negotiated with the EPA and DNRM and secured (ASAP)?	See Item 1.1	Y	
<b>1.6 BBBQMP Research Investigation Actions</b>					

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1.6.2	BBBQMP Sect 5.2 & 6.2	Has a Report detailing the findings of the population survey in line with ERIN Data Format been provided to DEW (by August 2005)?	Report submitted 20 <sup>th</sup> June 2005	Y	
<b>1.7 BBBQMP Management Control Actions</b>					
1.7.1	BBBQMP Sect 5.2.2 & 6.2	Has controlled and /or managed access to Mt Blandy only been allowed to authorised personnel (Immediately)?	Fencing established. Access controlled by EPA	Y	
1.7.2	BBBQMP Sect 5.2.2 & 6.2	Has a Pest Control Plan for Mt Blandy been devised based on the review of threats to <i>T. melanogaster</i> ? Has the Plan been submitted to DEW for approval (by August 2005)?	Pest Control Plan has been developed and approved by DEW	Y	
1.7.3	BBBQMP Sect 5.2.2 & 6.2	Has the Pest Control Plan been implemented following the survey of <i>T. melanogaster</i> (by October 2005)? SEE ITEMS 1.9	See Item 1.9		
1.7.4	BBBQMP Sect 5.2.2 & 6.2	Has the need for a firebreak on the perimeter of Mt Blandy been assessed for fire management purposes in conjunction with Qld EPA, Wildlife Ecology Unit (by June 2005)?	SunWater have recently contacted the Rural Fire Service to arrange a meeting. Have not consulted Qld EPA.	N1	
1.7.5	BBBQMP Sect 5.2.2 & 6.2	Has any controlled burning been undertaken as part of the operation of the dam near the vine thickets in the Mount Blandy habitat area (during operation of the dam and reviewed every 3 years)?	No controlled burning has been conducted.	Y	
1.7.6	BBBQMP Sect 5.2.2 & 6.2	Have discussions with Local Rural Bush Fire Brigade been conducted on fire management practices for the inundation area, including no controlled burning of vine thicket areas within the Mt Blandy area (by August 2005)?	SunWater have recently contacted the Rural Fire Service to arrange a meeting, however discussions not held as yet.	N2	
1.7.7	BBBQMP Sect 5.2.2 & 6.2	Have discussions with the Qld EPA been held regarding partnership in regular review and update of the Plan during the operational phase of the dam (every 3 years after operation of the dam)?	Plan due for review in December 2008. Negotiations currently being conducted with EPA regarding tenure of Mt Blandy Compensatory habitat.	N/A	

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1.7.8	BBBQMP Sect 5.2.2 & 6.2	Have actions to prevent clearing, logging, grazing, recreational use and mining in the secured habitat area been conducted (life of operation of the dam)?	Access currently controlled and no evidence of activities on land.	Y	
<b>1.8 BBBQMP Monitoring and Review</b>					
1.8.1	BBBQMP Sect 5.2.4	Has the BBBQMP been regularly reviewed and updated (at least every three years)?		N/A	
1.8.2	BBBQMP Sect 5.2.4	If the BBBQMP has been amended has it been submitted to DEW for approval?		N/A	
<b>1.9 BBBQMP Mt Blandy Pest Animal Management Plan (PAMP)</b>					
1.9.1	PAMP Sect 3.1 & 4	Has a consultation program been undertaken to determine: 1) existing knowledge regarding feral animal distribution? 2) details of any previous feral animal control programs? 3) neighbour support for feral animal monitoring on their land? 4) neighbour support for feral animal control program on their land? (by December 2005)	The Mt Blandy Pest Animal Management Plan has not been implemented. It is noted that a Project Brief and Tender Document has been prepared for a consultant to conduct a baseline pest survey and BBBQ Survey.	N3	
1.9.2	PAMP Sect 3.2 & 4	Has baseline monitoring (3 consecutive monthly monitoring surveys) of feral animal distribution been conducted using sand plot monitoring and searches of other signs of pest animal activity (by May 2006)?		N3	
1.9.3	PAMP Sect 3.3 & 4	Has an analysis and assessment of feral animal distribution been undertaken incorporating the results of the monitoring program and information determined from neighbour consultation to determine pest animal abundance (by June 2006)?		N3	
1.9.4	PAMP Sect 3.3 & 4	Was this analysis used as the basis for prescribing an appropriate pest control response ?		N3	

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1.9.5	PAMP Sect 3.4 & 4	Have active feral animal control measures been implemented? If so was the program implemented within 3 months of monitoring (before September 2006) if the presence was determined as high?		N3	
1.9.6	PAMP Sect 3.5 & 4	Has ongoing monitoring of feral animal distribution been conducted (minimum 12 months from feral animal control measures implementation, then ongoing minimum of once per year, or discontinue if low pest numbers)?		N3	
1.9.7	PAMP Sect 3.6 & 4	Has ongoing monitoring of BBBQ been conducted (minimum annually)?		N3	
<p><b>2. CoA 2</b> Burnett Water Pty Ltd must prepare and submit for the Minister's approval, at least one year prior to commencement of operation of the Burnett River Dam, a plan to manage the impacts of the dam on listed migratory species in the Burnett River estuary. The plan must include: (a) Surveying listed migratory species; (b) Sufficient monitoring of water quality and environmental flows to determine whether the operation of the dam is impacting on listed migratory species habitat; and (c) Measures to be taken if the information derived from (a) and (b) indicates that the action is having an adverse impact on migratory species.</p>					
2.1	CoA 2	Have Burnett Water Pty Ltd prepared a plan to manage the impacts of the dam on the listed migratory species in the Burnett River estuary?	Several Migratory Bird Assessment Reports have been submitted since November 2003.	Y	
2.2	CoA 2	Have Burnett Water Pty Ltd submitted the Migratory Species Management Plan for the Minister's approval?	Several Plans have been submitted to the Department.	Y	
2.3	CoA 2	Was the Migratory Species Management Plan approved by the Minister?	There has been ongoing liaison and negotiation with DEW regarding approval of the Plans and a Conservation Agreement was being reviewed by DEW at the time of audit.	P1	

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2.4	CoA 2	Was the Migratory Species Management Plan approved by the Minister at least one year prior to commencement of operation of the Burnett River Dam?	Approval was provided by DEW to submit the Plan by June 2006.	P1	
2.5	CoA 2(a)	Does the Migratory Species Management Plan include a Survey of the listed migratory species?	A Survey list was included and sighted.	Y	
2.6	CoA 2(b)	Does the Migratory Species Management Plan include sufficient monitoring of water quality and environmental flows to determine whether the operation of the dam is impacting on listed migratory species habitat?	See Item 2.3	P1	
2.7	CoA 2(c)	Does the Migratory Species Management Plan include measures to be taken if the information in CoA 2(a) and CoA 2(b) indicates that the action is having an adverse impact on listed migratory species?	See Item 2.3	P1	
<b>3. CoA 3 Burnett Water Pty Ltd must install a fish transfer device on the Burnett River Dam suitable for the lungfish. The fishway will commence when the dam becomes operational</b>					
3.1	CoA 3	Has Burnett Water Pty Ltd installed a fish transfer device on the Burnett River Dam?	A fish lift for upstream fish movement and a fish lock for downstream fish movement has been installed and was sighted.	Y	
3.2	CoA 3	Is the installed fish transfer device suitable for lungfish? If so how was this determined?	Report into suitability of fish transfer device for Burnett River Dam sighted (Burnett Dam Alliance Burnett River Dam Detail Design Report Section 10 – Fishway. Section 10.4.1) design criteria to suit lungfish. Letter from Qld DPI&F to BWPL stating design addresses fish passage objectives. Verbal advice that Qld DPI&F research into Fish Lift showed lungfish using fish lift (Report to be submitted next year). DPI&F conducting monitoring of lungfish use of fishway. This is a 5yr contract which commenced 1½ years ago. No Report has been provided as yet.	Y	

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3.3	CoA 3	Did the fishway commence when the dam became operational?	The upstream fish lift is operational however the downstream fish lock has not been operational since the Dam became operational due to the low water level in the dam.	<b>P2</b>	
<b>4. CoA 4</b> Burnett Water Pty Ltd must adhere to the environmental flow requirements specified in the <i>Water Resource Plan (Burnett Basin) 2000</i> and the <i>Resource Operation Plan (Burnett Basin) 2003</i> and the Burnett River Dam Flow Strategy for Lungfish dated 22 May 2003.					
<b>4.1 Water Resource Plan (Burnett Basin) 2000</b>					
4.1	CoA 4	Have environmental flow requirements specified in the <i>Water Resource Plan (Burnett Basin) 2000</i> (WRPBB) been adhered to:	The Water Resource Plan objectives are implemented through the "Rules" of the Resource Operation Plan - See Item 4.2		
4.1.1	WRPBB Div. 2 (11) (1)	Has water in the Burnett River basin been managed and allocated to, if practicable, minimise the frequency and duration of marine conditions in the estuary of the Burnett River?	See Item 4.2		
4.1.2	WRPBB Div. 2 (11) (2)	Has water in the Burnett River been managed and allocated to provide for lungfish habitat in the river particularly lungfish habitat downstream of Gayndah at AMTD 200km?	See Item 4.2		
4.1.3	WRPBB Part 4 (15)	For environmental flow and compensation flow objectives and water compensation security objectives, have performance indicators been calculated using the IQQM computer simulation period? If not, have they been calculated using an assessment method approved by the Chief Executive?	See Item 4.2		
4.1.4	WRPBB Div. 2 (19)	Have environmental flow objectives stated in schedule 5 of the WRPBB been met?	See Item 4.2		
4.1.5	WRPBB Div. 3	Have compensation flow objectives stated in section 21 of the WRPBB been met?	See Item 4.2		

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4.1.6	WRPBB Part 6 (40)	Have monitoring requirements stated in section 40 of the WRPBB been conducted?	See Item 4.2		
4.1.7	WRPBB Part 6 (41) (2)	Has a monitoring program been conducted that includes monitoring of the following: (a) water quantity including- (i) the flow of water at gauging stations (ii) deliveries and diversions of water (iii) inflows of water to dams (iv) the quantity of water released from a dam for each of the following – (A) consumption (B) the environment (C) the operation of fishways (D) any other purpose decided by the Chief Executive (v) the level of water in a dam	See Item 4.2		
4.1.8	WRPBB Part 6 (42)	Has Burnett Water Pty Ltd provided the chief executive a written report which contains the information specified in section 42 of the WRPBB?	See Item 4.2		
4.1.9	WRPBB	Have Burnett Water Pty Ltd managed and allocated water in the Burnett River to provide lungfish habitat in the River particularly lungfish habitat downstream of Gayndah at AMTD 200km? (See 4.3 Burnett River Dam Flow Strategy for Lungfish)	See Item 4.2		
<b>4.2 Resource Operation Plan (Burnett Basin) 2003</b>					
4.2	CoA 4	Have environmental flow requirements specified in the Resource Operation Plan (Burnett Basin) 2003 (BBROP) been adhered to:	A Resource Operations Licence has been issued by the Qld Gov't under the <i>Water Act 2000</i> . SunWater have been issued the Bundaberg Water Supply Scheme Resource Operations Licence (ROL). Under Section 10 of the <i>Water Act 2000</i> , the licence operates from 13 <sup>th</sup> July 2006 until Paradise Dam reaches EL 67.6 AHD or the 30 <sup>th</sup> June 2008. At the time of the audit the EL was 45.96m therefore SunWater were required to comply with the operating arrangements detailed in Schedule 1 of the ROL.	<b>Y</b>	

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4.2.1	BBROP Attachment 3.1 (6) (e)	Has water been managed and allocated to provide for community aspirations about - (ii) maintaining areas of significant conservation values such as fish habitat areas. Has ecological monitoring been conducted to assess this?	Ecological Monitoring conducted by Qld DPI&F and Ecowise. Raw data sighted and reports not required until next year. See item 6.	N/A	
4.2.2	BBROP Attachment 3.1 (6) (e)	Has water been managed and allocated to provide for community aspirations about - (iii) protecting species of significant conservation value, including lungfish. Has ecological monitoring been conducted to assess this?	Ecological Monitoring conducted by Qld DPI&F and Ecowise. Raw data sighted and reports not required until next year. See item 6.	N/A	
4.2.3	BBROP Attachment 3.1 (6) (g)	Has water been managed and allocated to make water available for the environment. Operating rules require a more natural flow release regime for the environment and limit the amount of and access to, water taken during high flows. Has ecological monitoring been conducted to assess this?	Ecological Monitoring conducted by Qld DPI&F and Ecowise. Raw data sighted and reports not required until next year. See item 6.	N/A	
4.2.4	BBROP Attachment 3.1 (7) (a)	Has water been managed and allocated to maintain pool habitats and native plants and animals associated with the habitats in watercourses? Has ecological monitoring been conducted to assess this?	Ecological Monitoring conducted by Qld DPI&F and Ecowise. Raw data sighted and reports not required until next year. See item 6.	N/A	
4.2.5	BBROP Attachment 3.1 (7) (b)	Has water been managed and allocated to maintain long-term water quality suitable for riverine and estuarine ecosystems? Has ecological monitoring been conducted to assess this?	Ecological Monitoring conducted by Qld DPI&F and Ecowise. Raw data sighted and reports not required until next year. See item 6.	N/A	
4.2.6	BBROP Attachment 3.1 (7) (c)	Has water been managed and allocated to provide flow regimes that favour native plants and animals associated with watercourses and riparian zones? Has ecological monitoring been conducted to assess this?	Ecological Monitoring conducted by Qld DPI&F and Ecowise. Raw data sighted and reports not required until next year. See item 6.	N/A	
4.2.7	BBROP Attachment 3.1 (7) (e)	Has water been managed and allocated to provide wet season flow to benefit native plants and animals including, for example, fish and prawns in estuaries? Has ecological monitoring been conducted to assess this?	Ecological Monitoring conducted by Qld DPI&F and Ecowise. Raw data sighted and reports not required until next year. See item 6.	N/A	

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4.2.8	BBROP Attachment 3.1 (7) (f)	Has water been managed and allocated to improve stream flow conditions to assist the movement of fish along watercourses (Operating Rules state the requirements for the meeting of EFOs and the operation of fishways)? Has monitoring been conducted to monitor this eg records detailing periods of fishway operation and fish community structure monitoring?	Ecological Monitoring conducted by Qld DPI&F and Ecowise. Raw data sighted and reports not required until next year. See item 6.	N/A	
4.2.9	BBROP Attachment 3.1 (11) (1)	Has water in the Burnett River basin been managed and allocated to, if practicable, minimise the frequency and duration of marine conditions in the estuary of the Burnett River (have EFOs for the Burnett Estuary been met)? Monitoring: Records of the volumes released from Ben Anderson Barrage; Water quality measurements in the Burnett estuary	Ecological Monitoring conducted by Qld DPI&F and Ecowise. Raw data sighted and reports not required until next year. See item 6.	N/A	
4.2.10	BBROP Attachment 3.1 (11) (2)	Has water in the Burnett River been managed and allocated to provide for lungfish habitat in the River, particularly lungfish habitats downstream of Gayndah at AMTD 200km)? Monitoring: Ned Churchward Weir	Ecological Monitoring conducted by Qld DPI&F and Ecowise. Raw data sighted and reports not required until next year. See item 6.	N/A	
4.2.11	BBROP Attachment 4.1 E	Have the Rules for operation of storages and waterholes specified in Section 1 been met?	At the time of the audit the EL was 45.96m therefore SunWater were required to comply with the operating arrangements detailed in Schedule 1 of the ROL (See item 4.2)	N/A	
4.2.12	BBROP Attachment 4.1 E	Have the Rules for releases of water from storages specified in Sections 2.1 – 2.5 been met (unless Attachment 4.1F (1.2) applies)?	SunWater have submitted an Annual Report (Bundaberg WSSROP) to the Qld Gov't for the 2005/2006 Year. The Report was submitted on the 28/9/06. The Report meets the reporting requirements specified in Section 4.1 of Attachment 4.1G of the ROP. The next Annual Report is due in December 2007.	N/A	
4.2.13	BBROP Attachment 4.1 E	Have the Environmental Management Rules for flow objectives specified in Section 2.6 been met?	See Items 4.2.11 and 4.2.12 above	N/A	
4.2.14	BBROP Attachment 4.1 E (2.7)	Has the storage inflow derivation methodology been approved by the Chief Executive?	The Storage inflow derivation methodology has not been approved. A letter from the Qld Govt granting an extension to the 1/7/07 was sighted. A letter from SunWater to the Qld Gov't requesting a further extension to 31/8/07 was sighted but no evidence that this was granted.	N4	

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4.2.15	BBROP Attachment 4.1 E (2.8)	Has BWPL consulted with DPI&F and submitted a proposal detailing an alternative to the operating levels of storages to ensure effective fishway operation to the Chief Executive for approval within 12 months of commencement of the ROP?	The ROP has not commenced yet.	N/A	
4.2.16	BBROP Attachment 4.1 E (2.8.4)	Has the Paradise Dam fishway been operated according to the requirements specified in Section 2.8.4?	The fishway is only required to be operated when the storage level is between 62m AHD and 67.9m AHD and when releases or overflows greater than 14ML/day are being made from the Dam.	Y	
4.2.17	BBROP Attachment 4.1 G (1.1)	Have BWPL recorded continuous time series height and flow data at the locations provided in Table 1? Are recordings consistent with the standards for continuous recorded data given in the Water Monitoring Data Collection Standards?	SunWater have been issued the Bundaberg Water Supply Scheme Resource Operations Licence (ROL). Under Section 10 of the <i>Water Act 2000</i> , the licence operates from 13 <sup>th</sup> July 2006 until Paradise Dam reaches EL 67.6 AHD or the 30 <sup>th</sup> June 2008. At the time of the audit the EL was 45.96m therefore SunWater were required to comply with the operating arrangements detailed in Schedule 1 of the ROL. SunWater have submitted an Annual Report (Bundaberg WSSROP) to the Qld Gov't for the 2005/2006 Year. The Report was submitted on the 28/9/06. The Report meets the reporting requirements specified in Section 4.1 of Attachment 4.1G of the ROP.	Y	
4.2.18	BBROP Attachment 4.1 G (1.1)	Have BWPL recorded continuous time series height data at the location provided in Table 2? Are recordings consistent with the standards for continuous recorded data given in the Water Monitoring Data Collection Standards?	See item 4.2.17	Y	
4.2.19	BBROP Attachment 4.1 G (1.1)	Have BWPL recorded daily inflow volumes at the location provided in Table 3?	See item 4.2.17	Y	
4.2.20	BBROP Attachment 4.1 G (1.2)	Have BWPL conducted storage releases according to the requirements specified in Section 1.2?	See item 4.2.17	Y	
4.2.21	BBROP Attachment 4.1 G (1.2)	Have BWPL conducted storage releases according to the requirements specified in Section 1.2?	See item 4.2.17	Y	

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4.2.22	BBROP Attachment 4.1 G (2)	Have BWPL conducted water quality assessments according to the requirements specified in Section 2.1 to establish the impact of storage operation on aquatic ecosystems?	SunWater have submitted an Annual Report (Bundaberg WSSROP) to the Qld Gov't for the 2005/2006 Year. The Report was submitted on the 28/9/06. The Report meets the reporting requirements specified in Section 4.1 of Attachment 4.1G of the ROP	Y	
4.2.23	BBROP Attachment 4.1 G (2)	Have BWPL conducted cyanobacteria monitoring according to the requirements specified in Section 2.2 to establish the impact of storage operation on aquatic ecosystems?	SunWater have submitted an Annual Report (Bundaberg WSSROP) to the Qld Gov't for the 2005/2006 Year. The Report was submitted on the 28/9/06. The Report meets the reporting requirements specified in Section 4.1 of Attachment 4.1G of the ROP	Y	
4.2.24	BBROP Attachment 4.1 G (2)	Have BWPL recorded bank condition according to the requirements specified in Section 2.3 to establish the impact of storage operation on aquatic ecosystems?	SunWater have submitted an Annual Report (Bundaberg WSSROP) to the Qld Gov't for the 2005/2006 Year. The Report was submitted on the 28/9/06. The Report meets the reporting requirements specified in Section 4.1 of Attachment 4.1G of the ROP	Y	
4.2.25	BBROP Attachment 4.1 G (2)	Have BWPL recorded instances of fish stranding according to the requirements specified in Section 2.4 to establish the impact of storage operation on aquatic ecosystems?	SunWater have submitted an Annual Report (Bundaberg WSSROP) to the Qld Gov't for the 2005/2006 Year. The Report was submitted on the 28/9/06. The Report meets the reporting requirements specified in Section 4.1 of Attachment 4.1G of the ROP	Y	
4.2.26	BBROP Attachment 4.1 G (2)	Have BWPL conducted monitoring at Ned Churchward Weir according to the requirements specified in Section 2.5 to establish the impact of storage operation on aquatic ecosystems?	SunWater have submitted an Annual Report (Bundaberg WSSROP) to the Qld Gov't for the 2005/2006 Year. The Report was submitted on the 28/9/06. The Report meets the reporting requirements specified in Section 4.1 of Attachment 4.1G of the ROP	Y	
4.2.27	BBROP Attachment 4.1 G (4)	Have BWPL submitted to the chief executive an annual report that includes, but is not limited to the discussion and recommendations with regards to the monitoring results as specified in Section 4.1?	SunWater have submitted an Annual Report (Bundaberg WSSROP) to the Qld Gov't for the 2005/2006 Year. The Report was submitted on the 28/9/06. The Report meets the reporting requirements specified in Section 4.1 of Attachment 4.1G of the ROP	Y	
4.2.28	BBROP Attachment 4.1 G (4)	Have BWPL notified the chief executive within 24hrs of becoming aware of the operational incidents as specified in Section 4.2?	Operational Report submitted 29 <sup>th</sup> March to Qld DNRW stating inability of SunWater to provide Storage Inflow Derivation Methodology.	Y	
4.2.29	BBROP Attachment 4.1 G (4)	Have BWPL provided an Emergency Report as specified in Section 4.3?	No Emergency Reports required to time of audit.	N/A	

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4.2.30	BBROP Attachment 4.2 E	Have the Rules for operation of storages and waterholes specified in Section 1 been met?	SunWater have been issued the Bundaberg Water Supply Scheme Resource Operations Licence (ROL). Under Section 10 of the <i>Water Act 2000</i> , the licence operates from 13 <sup>th</sup> July 2006 until Paradise Dam reaches EL 67.6 AHD or the 30 <sup>th</sup> June 2008. At the time of the audit the EL was 45.96m therefore SunWater were required to comply with the operating arrangements detailed in Schedule 1 of the ROL	N/A	
4.2.31	BBROP Attachment 4.2 E	Have the Rules for releases of water from storages specified in Sections 2.1 – 2.5 been met?	See Item 4.2.30	N/A	
4.2.32	BBROP Attachment 4.2 E	Have the Environmental Management Rules for flow objectives specified in Section 2.6 been met?	See Item 4.2.30	N/A	
4.2.33	BBROP Attachment 4.2 E (2.7)	Has the storage inflow derivation methodology been approved by the Chief Executive?	The Storage inflow derivation methodology has not been approved. A letter from the Old Govt granting an extension to the 1/7/07 was sighted. A letter from SunWater to the Old Gov't requesting a further extension to 31/8/07 was sighted but no evidence that this was granted.	N4	
4.2.34	BBROP Attachment 4.2 E (3)	Have BWPL ensured the quality of water downstream of storages as specified in Section 3?	SunWater have submitted an Annual Report (Bundaberg WSSROP) to the Old Gov't for the 2005/2006 Year. The Report was submitted on the 28/9/06. The Report meets the reporting requirements specified in Section 4.1 of Attachment 4.1G of the ROP. This included water quality monitoring.	Y	
<b>4.3 Burnett River Dam Flow Strategy for Lungfish</b>					
4.3	CoA 4	Have environmental flow requirements specified in the Burnett River Dam Flow Strategy for Lungfish (BRDFSL) dated 22 May 2003 been adhered to?	The environmental flow requirements specified in Table 4 of the Flow Strategy for Lungfish are cross-referenced to Table 6, Part 2 of the Water Resources Plan (checked and verified). These requirements (flow strategy indicators) are used in the flow modelling for the operation of Paradise Dam. The modelling is approved by the Chief Executive prior to issuing the ROL.	Y	
4.3.1	BRDFSL 3.1	Have BWPL retained the Mean Annual Flow (MAF) at Figtree Gauge as greater than or equal to 81% of the Pre development MAF (determined by DNR&M IQQM modelling)?	See Item 4.3	Y	

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4.3.2	BRDFSL 3.2	Have dam operations resulted in an Annual Proportional Flow Deviation (APFD) greater than or equal to 2.1?	See Item 4.3	Y	
4.3.3	BRDFSL 3.3	Have dam operations maintained a flow regime class as "late summer", consistent with the BBWRP?	See Item 4.3	Y	
4.3.4	BRDFSL 3.4.1	Have dam operations resulted in the 1.5 year average recurrence interval daily flow volume at Figtree Gauge being retained as greater than or equal to 74% of the Pre development value (determined by DNR&M IQQM modeling)?	See Item 4.3	Y	
4.3.5	BRDFSL 3.4.2	Have dam operations resulted in the 5 year average recurrence interval daily flow volume at Figtree Gauge being retained as greater than or equal to 71% of the Pre development value (determined by DNR&M IQQM modeling)?	See Item 4.3	Y	
4.3.6	BRDFSL 3.4.3	Have dam operations resulted in the 20 year average recurrence interval daily flow volume at Figtree Gauge being retained as greater than or equal to 82% of the Pre development value (determined by DNR&M IQQM modeling)?	See item 4.3	Y	
<b>5. CoA 5</b> Prior to commencing operation of the Burnett River Dam, Burnett Water Pty Ltd must provide to the Minister a report detailing the results of baseline monitoring of the lungfish population in the vicinity of the Burnett River Dam wall.					
5.1	CoA 5	Have Burnett Water Pty Ltd provided to the Minister a report detailing the results of baseline monitoring of the lungfish population in the vicinity of the Burnett River Dam wall?	Burnett River Dam Baseline Lungfish Monitoring prepared by Qld DPI&F May 2005.	Y	
5.2	CoA 5	Was the lungfish baseline monitoring report provided to the Minister prior to commencing operation of the Burnett River Dam?	Submitted July 19 <sup>th</sup> , 2005. DEW response in letter dated 7 <sup>th</sup> September 2005 stating satisfies Condition 5.	Y	
<b>6. CoA 6</b> Burnett Water Pty Ltd must undertake annual aquatic ecosystem monitoring at about AMTD 119 km, AMTD 201 km and at least two sites between these points and provide to the Minister five biennial summary reports. This 10-year monitoring program will include the measurement of the condition of lungfish and lungfish habitat / macrophytes. Monitoring will commence when the dam becomes operational.					

**Audit of Burnett Water Pty Ltd, QLD, Burnett River Dam, EPBC 2001/422**

**Audit site visit date: 25-28 June 2007**

Item #	Ref #	Area for review	Audit findings	Compliance rating	Assessment Issue #
6.1	CoA 6	Have Burnett Water Pty Ltd undertaken annual aquatic ecosystem monitoring at about AMTD 119 km, AMTD 201 km and at least two sites between these points? Dates of monitoring? Results of monitoring?	Aquatic ecosystem monitoring conducted at 8 sites including AMTD 119km, 201km. Site 1 is located at AMTD 121km, Site 2 119km and site 7 at 201km. Raw data results sighted.	Y	
6.2	CoA 6	Have Burnett Water Pty Ltd provided to the Minister five biennial summary reports?	The first Report is due next year.	N/A	
6.3	CoA 6	Does the 10-year monitoring program include the measurement of the condition of lungfish and lungfish habitat / macrophytes?	Ecowise have been contracted to conduct water quality and aquatic monitoring. The QLD DPI&F have been contracted to conduct lungfish population/habitat monitoring.	Y	
6.4	CoA 6	Did monitoring commence when the dam became operational?	Monitoring commenced 2006 (dam operational Dec 2005).	Y	
<b>7. CoA 7 Burnett Water Pty Ltd must conduct a review of the impacts of Burnett River Dam on the lungfish at the conclusion of the 10 year monitoring program in consultation with the Commonwealth Environment portfolio, to determine whether future monitoring is required.</b>					
7.1	CoA 7	Have Burnett Water Pty Ltd conducted a review of the impacts of Burnett River Dam on the lungfish at the conclusion of the 10 year monitoring program in consultation with the Commonwealth Environment portfolio, to determine whether future monitoring is required?		N/A	
<b>8. CoA 8 Burnett Water Pty Ltd must make lungfish information and data from research and monitoring activities freely available for inclusion in State and Commonwealth lungfish recovery programs or programs relating to water quality in the Burnett River.</b>					
8.1	CoA 8	Have Burnett Water Pty Ltd made lungfish information and data from research and monitoring activities freely available for inclusion in State and Commonwealth lungfish recovery programs or programs relating to water quality in the Burnett River?  If so what programs or projects has the data been included in?	SunWater were invited to participate in the Lungfish Recovery Team preparing the Lungfish Recovery Plan (liaison with DEW). SunWater has provided lungfish monitoring data for the Hydrobiology EIS for Traveston Dam.	Y	

Item #	Ref #	Area for review	Audit findings	Compliance rating	Assessment Issue #
<b>9. CoA 9</b> If aquatic ecosystem monitoring required under paragraph 4 ( <b>CoA 6</b> ) or the review required under paragraph 5 ( <b>CoA 7</b> ) indicates ongoing lungfish population decline at about AMTD 119 km that cannot be attributed to natural periodic fluctuations, then Burnett Water Pty Ltd will initiate appropriate recovery actions. The recovery actions cannot be inconsistent with an adopted Commonwealth Lungfish Recovery Plan.					
9.1	CoA 9	Has aquatic ecosystem monitoring (CoA 6) indicated ongoing lungfish population decline at about AMDT 119km? Can this be attributed to natural periodic fluctuations? If so how?		N/A	
9.2	CoA 9	Has the Review required by CoA 7 indicated ongoing lungfish population decline at about AMDT 119km? Can this be attributed to natural periodic fluctuations? If so how?		N/A	
9.3	CoA 9	Have Burnett Water Pty Ltd initiated appropriate recovery actions? If so, are these recovery actions consistent with an adopted Commonwealth Lungfish Recovery Plan? Note: the lungfish is on the list of Recovery Plans in preparation – Jan 2007 DEW.		N/A	
<b>10 Referral</b>					
10.1	Referral	Was the Action conducted according to the referral received under the EPBC Act (EPBC 2001/422)?		Y	