Beardmore Dam Emergency Event Report

Emergency Event Recording Sheets

- Description of the event
- Instrument readings, rainfall and levels data
- E-mails
- Description of Damage (including photos)
- Left and Right Wingwall Monitoring
- Record of Communication Sheets
- Earthquake Incident Reporting
- Log of Events / Action sheet
- EAP, Performance and Comments
- Photos during & after event (if available)

Note: These sheets must be completed for all Emergency Event Scenarios and be included in the Emergency Event Report

QFCI

Date: 27/05/11 JM

Exhibit Number: 514

Beardmore Dam Event Report

Emergency Event Recording Sheets

- **Description of the Event**

EMERGENCY EVENT RECORD

COMPLETE THIS COVER SHEET AND ATTACH RELEVANT RECORDING SHEETS FROM SECTION 6.

1. **NATURE OF THE EVENT** (circle the event)

Spillway discharge **Earthquake** **Piping** **Water Quality** **Terrorist Activity**

Commencing: Time 08:00 AM Date 16/09/2010. **Finishing:** Time 08:00am; Date 03/02/2011

2. **DESCRIPTION OF THE EVENT**

Attach relevant sheets from Section 6.

Emergency Event Record Data: During the month of December 2010 and following through to January 2011, extreme rainfall events were experienced in all regions of the Condamine-Balonne and Maranoa River Catchments accumulating in an emergency event situation at Beardmore Dam. Beardmore Dam experienced medium inflow into Beardmore Dam subsequently reaching full capacity and overflowing on the Friday 16th of November 2010.

Beardmore Dam Event Status Report.

Start: 16-09-2010. **Finish:** 03-02-2011, 138 days duration of flooding,
Stage 1. 16.09.2010 to 17.10.2010
09.12.2010 to 23.12.2010
02.02.2011 to 03.02.2011
Stage 2. 17.10.2010 to 23.10.2010
05.12.2010 to 09.12.2010
01.02.2011 to 02.02.2011
Stage 3. 23.12.2010 to 02.01.2011
16.01.2011 to 19.01.2011
28.01.2011 to 31.01.2011
Stage 4. 02.01.2011 to 07.01.2011
11.01.2011 to 16.01.2011
19.01.2011 to 28.01.2011
Stage 5. 07.01.2011 to 11.01.2011.
Beardmore Dam, Unknown volume Releases.
Start: 08:00am on Sunday 7th January 2011 to 12:00pm on Thursday 11th January 2011. During this period of time, water releases from Beardmore Dam exceeded the current gated release volume of 335,460 Ml/day.

3. **STATISTICS**

Total inflow	* Rated Inflow @ Weribone 4,740,843 Megalitres * Rated Inflow @Cashmere 701,107 Megalitres * **5,441,950** Megalitres
Total discharge	* **6,784,091** Megalitres **Based on DS Jack Taylor Weir GS 422201E**
Capacity of Storage prior to inflow	99.9 %
Volume prior to inflow	81194 Megalitres
Maximum inflow	Maximum Gated Flow Rating 335,460 ML/Day
Maximum discharge	Maximum Gated Flow Rating 335,460 ML/Day

Note:

* **Weribone GS 422213A offline from 3rd January to 8th January, no flow rating recorded.**
* **DS Jack Taylor Weir GS 422201E offline from 7th January to 11th January, no flow rating recorded.**

4. EVENT PROGRESS

Attach copies of the Spillway Level versus Time Graph, the Record of Communication, the Log of Events / Actions, and Rainfall during a Flood Event. (Section 6A)

5. GENERAL COMMENTS

Include in this section any observations or comments regarding the Event, such as Equipment malfunctions, improved Reporting, Safety issues, or any suggestions which may improve monitoring of the Event.

As per De-Brief of the Event.

Sunwater staff disconnected back-up generator and removed to a secure location on 03.01.2011
Ergon Energy disconnected mains power supply to all facilities at Beardmore Dam on 12:00 pm on 05.01.2011

Backup emergency generator was borrowed from the Balonne Shire Council to power Beardmore Dam for the duration of the event.

Loss of upstream GS at Cashmere from 10th November to 12th November 2010 and 18th November to 20th November 2010.
Loss of upstream GS at Weribone from 3rd January to 7th January 2011.
Loss of Downstream GS at St George from 7th January to 12th January 2011.

Flow reached above 335,460 ML/Day at 11:00 am on 7th January lasting until 12:00 pm on the 12th January -.Beardmore Dam flow rating chart maximum.

Detail any damage to the Embankment, Spillway, Abutments or Stream bank in the downstream area of the Dam. ***Attach photos.***

Downstream of Spillway, Concrete Abutments, Apron and Causeway - Unknown damage as river is currently in flood.
Amenities block has undergone extensive damage, interior walls were demolished.
Information lookout, concreted protection apron has experienced undermining and erosion along the edge of concreted rock protection.
Roads have suffered deterioration and pot-holing.

Beardmore Dam Event Report

Emergency Event Recording Sheets

- **Instrument readings, Rainfall and Levels data**

DATE 2-1-11			DATE 2-1-11		
TIME. 09:00			TIME.	12:00HRS	
Dam EL	207.15		Dam EL	207.12	
Tail Water EL:	203.58		Tail Water EL:	203.92	

Piez.No.	INLET	OUTLET	Piez.No.	INLET	OUTLET
1	-2.2	-2.2	1	-2.2	-2.2
2	0	-.8	2	0	-.8
3	—	—	3		
4	-3.4	-3.4	4	-3.4	-4.0
5	-2.4	-2.4	5	-2.4	-3.4
6	-1.4	-1.6	6	-1.4	-1.6
7	-.4	-.2	7	-.4	-.2
8	-2.2	-2.2	8	-2.2	-2.2
9	-1.0	-1.0	9	-1.0	-1.0
10	0	0	10	0	0
11	.2	.2	11	0	0
12	-1.6	-1.6	12	-1.6	-1.6
13	-2.0	-2.0	13	-2.0	-2.0
14	-.2	-2.6	14	-.2	-2.2
15	-.6	-.6	15	-.6	-.6
16	-1.6	-1.4	16	-1.6	-1.6
17	-1.0	-3.0	17	-1.0	-3.0
18	-1.4	-1.4	18	-1.4	-1.4
19	-2.8	-3.0	19	-2.8	-3.0
20	-1.2	-1.2	20	-1.2	-1.2
21	0	-.6	21	0	-.4
22	-1.6	-1.6	22	-1.6	-1.6

6AM.
BORES
#1 1.96
#2 1.98
#3 5.31
DAM E.L 207.13
CHANNEL E.L 202.10

12:00HRS
BORES
#1 1.95
#2 1.95
#3 5.29
CHANNEL E.L
202.0

DATE 02-01-11			DATE 03-01-11		
TIME.	18:00		TIME.	12.15 pm	
Dam EL	207.11		Dam EL	207.13	
Tail Water EL:	204.00		Tail Water EL:	204.15	

Piez.No.	INLET	OUTLET	Piez.No.	INLET	OUTLET
1	-2.2	-2.2	1	-2.2	-2.1
2	0	-0.7	2	0	-0.6
3	—	—	3	—	—
4	-3.5	-3.5	4	-3.5	-3.4
5	-2.5	-2.5	5	-2.4	-2.4
6	-1.6	-1.6	6	-1.5	-1.6
7	-0.4	-0.3	7	-0.2	-0.2
8	-2.1	-2.2	8	-2.1	-2.1
9	-1.0	-1.0	9	-1.1	-1.1
10	0	0	10	-0.1	-0.1
11	0	0	11	0	0
12	-1.5	-1.6	12	-1.5	1.5
13	-2.0	-2.0	13	-2.0	-2.0
14	-0.4	-1.9	14	-0.6	-2.0
15	-0.5	-0.5	15	-0.6	-0.6
16	-1.3	-1.5	16	-1.5	-1.4
17	-1.3	-2.6	17	-1.4	-2.2
18	-1.3	-1.3	18	-1.4	-1.4
19	-3.0	-2.9	19	-2.7	-2.9
20	-1.4	-1.3	20	-1.3	-1.2
21	0	-0.3	21	-0.1	-0.4
22	-1.6	-1.6	22	-1.6	-1.6

BORES - 6.2m

① 1955

② 1965

③ 5270 ✓

CHAL EL 201.90

BORES -

① 1980

② 1980

③ 5290

CHAL EL 201.92

DATE 02-01-11			DATE 03-01-11		
TIME.	18:00		TIME.	12.15 pm	
Dam EL	207.11		Dam EL	207.13	
Tail Water EL:	204.00		Tail Water EL:	204.15	

Piez.No.	INLET	OUTLET	Piez.No.	INLET	OUTLET
1	-2.2	-2.2	1	-2.2	-2.1
2	0	-0.7	2	0	-0.6
3	—	—	3	—	—
4	-3.5	-3.5	4	-3.5	-3.4
5	-2.5	-2.5	5	-2.4	-2.4
6	-1.6	-1.6	6	-1.5	-1.6
7	-0.4	-0.3	7	-0.2	-0.2
8	-2.1	-2.2	8	-2.1	-2.1
9	-1.0	-1.0	9	-1.1	-1.1
10	0	0	10	-0.1	-0.1
11	0	0	11	0	0
12	-1.5	-1.6	12	-1.5	1.5
13	-2.0	-2.0	13	-2.0	-2.0
14	-0.4	-1.9	14	-0.6	-2.0
15	-0.5	-0.5	15	-0.6	-0.6
16	-1.3	-1.5	16	-1.5	-1.4
17	-1.3	-2.6	17	-1.4	-2.2
18	-1.3	-1.3	18	-1.4	-1.4
19	-3.0	-2.9	19	-2.7	-2.9
20	-1.4	-1.3	20	-1.3	-1.2
21	0	-0.3	21	-0.1	-0.4
22	-1.6	-1.6	22	-1.6	-1.6

BORES - 6.2m

① 1955

② 1965

③ 5270 ✓

CHAL EL 201.90

BORES -

① 1980

② 1980

③ 5290

CHAL EL 201.92

DATE 03-01-11			DATE 3-1-11		
TIME.	06:00		TIME.	12:00	
Dam EL	207.13		Dam EL	207.14	
Tail Water EL:	204.34		Tail Water EL:	204.43	

Piez.No.	INLET	OUTLET	Piez.No.	INLET	OUTLET	
1	-2.1	-2.2	1	-2.2	-2.2	
2	-0.4	+1.0	2	-0.2	-0.4	
3	–	–	3	~~-.4~~		
4	-3.4	-3.4	4	-3.4	-3.4	
5	-2.4	-2.4	5	-2.4	-2.4	
6	-1.5	-1.5	6	-1.6	-1.6	
7	-0.2	-0.2	7	-.2	-0.2	
8	-2.0	-2.0	8	-2.0	-2.0	
9	-1.0	-1.0	9	-1.0	-1.2	
10	0.0	0.0	10	0	0	
11	+1.0	+1.0	11	0	0	
12	-1.4	-1.4	12	-1.4	-1.4	
13	-2.0	-2.1	13	-2.0	-2.0	
14	-1.6	-0.7	14	-0.8	-1.6	*
15	-0.5	-0.5	15	-0.6	-0.6	
16	-1.5	-1.5	16	-1.4	-1.4	
17	-1.7	-1.4	17	-1.6	-1.8	
18	-1.3	-1.2	18	-1.4	-1.4	
19	-2.8	-2.7	19	-2.8	-2.8	
20	-1.1	-1.1	20	-1.2	-1.2	
21	-0.2	-0.0	21	0	-0.2	*
22	-1.5	-1.5	22	-1.6	-1.6	

BORES 06:00 a.m.

(1) 1990

(2) 1980

(3) 5290

CHNL EL. 201.90

HYDRAULIC PIEZOMETER READINGS

Date	03-01-11	Date	04-01-11
Time	6.00 Pm.	Time	12:15 AM.
Dam EL	207.09	Dam EL	202.10
TailWater EL	204.55	TailWater EL	204.57

Piez No.	Inlet	Outlet	Piez No.	Inlet	Outlet
1	-2.2	-2.2	1	-2.1	-2.1
2	-0.1	-0.5	2	-0.3	0.0
3	—	—	3	—	—
4	-3.4	-3.4	4	-3.4	-3.4
5	-2.5	-2.6	5	-2.4	-2.4
6	-1.6	-1.6	6	-1.5	-1.5
7	-0.2	-0.3	7	-0.2	-0.2
8	-2.1	-2.1	8	-1.9	-2.0
9	-1.0	-1.0	9	-1.0	-1.0
10	-0.1	-0.1	10	0.0	0.0
11	0	0	11	0.0	0.0
12	-1.6	-1.6	12	-1.6	-1.5
13	-1.9	-1.9	13	-2.1	-2.1
14	-0.8	-1.5	14	-1.3	-0.6 F
15	-0.5	-0.5	15	-0.5	-0.5
16	-1.3	-1.3	16	-1.4	-1.4
17	-1.7	-1.9	17	-1.6	-1.6
18	-1.4	-1.4	18	-1.3	-1.4
19	-2.8	-2.9	19	-2.7	-2.8
20	-1.3	-1.4	20	-1.2	-1.2
21	0	-0.2	21	-0.2	0.0 F
22	-1.6	-1.6	22	-1.6	-1.6

BORE 1 1880 BORE 1 1870

BORE 2 1910 BORE 2 1910

BORE 3 5235 BORE 3 5240

EL. 202.23 EL. 202.22

DATE 4-1-11			DATE 4-1-11		
TIME.	06:00		TIME.	12:00	
Dam EL	207.1		Dam EL	207.08	
Tail Water EL:	204.64		Tail Water EL:	204.73	

Piez.No.	INLET	OUTLET	Piez.No.	INLET	OUTLET
1	-2.1	-2.1	1	-2.2	-2.2
2	-.2	-1.0	2	0	-0.4
3			3		
4	-3.4	-3.4	4	-3.4	-3.4
5	-2.4	-2.4	5	-2.4	-2.4
6	-1.5	-1.4	6	-1.4	-1.4
7	-.1	0	7	-0.2	-0.2
8	-1.9	-1.8	8	-2.0	-1.8
9	-1.0	-1.0	9	-1.0	-1.0
10	1.0	0.0	10	0.0	0.2
11	0.0	0.0	11	0.0	0.0
12	-1.5	-1.5	12	-1.6	-1.6
13	-2.0	-2.0	13	-2.2	-2.0
14	-.6	-1.1	14	-0.6	-1.2
15	-.4	-.5	15	-0.6	-0.6
16	-1.4	-1.3	16	-1.4	-1.4
17	-1.6	-1.5	17	-1.6	-1.6
18	-1.3	-1.2	18	-1.4	-1.4
19	-2.7	-2.7	19	-2.8	-2.8
20	-1.1	-1.1	20	-1.2	-1.2
21	0	-.1	21	0	0
22	-1.5	-1.5	22	-1.6	-1.6

DATE	04-01-11		DATE	05-01-11	
TIME.	6 Pm		TIME.	12:15 AM	
Dam EL	206.96		Dam EL	206.98	
Tail Water EL:	204.73		Tail Water EL:	204.74	

Piez.No.	INLET	OUTLET	Piez.No.	INLET	OUTLET
1	2.2	2.1	1	-2.1	-2.1
2	0.2	0.3	2	-0.4	-0.1
3	—	—	3	—	—
4	3.4	3.4	4	-3.3	-3.4
5	2.5	2.4	5	-2.6	-2.4
6	1.5	1.5	6	-1.4	-1.5
7	0.3	0.2	7	-0.2	-0.2
8	1.9	1.9	8	-1.8	-0.5
9	0.4	1.0	9	-1.0	-1.0
10	0	0	10	0	0
11	0	0	11	0	0
12	1.6	1.6	12	-1.5	-1.5
13	1.9	2.0	13	-2.0	-2.0
14	0.4	1.0	14	-1.0	-2.5
15	0.4	0.5	15	-0.5	-0.4
16	1.2	1.2	16	-1.2	-1.3
17	1.7	1.7	17	-1.6	-1.6
18	1.3	1.3	18	-1.4	-1.6
19	2.8	2.9	19	-2.7	-2.7
20	1.3	1.3	20	-1.1	-1.2
21	0	0	21	0.0	-0
22	1.6	1.6	22	-1.6	-1.6

BORE 1	1825	BORE 1	1820
BORE 2	1850	BORE 2	1850
BORE 3	5.160	BORE 3	5185
CHANNEL EL.	202.27	CHN EL	202.25

DATE	05-01-11		DATE	5-1-11	
TIME.	06.00 AM.		TIME.	10:00 HRS	
Dam EL	207.00		Dam EL	207.08	
Tail Water EL:	204.81		Tail Water EL:	205.04	

Piez.No.	INLET	OUTLET	Piez.No.	INLET	OUTLET
1	-.2	-2.1	1	-2.0	-2.0
2	-.6	-.3	2	0-2.	0
3	—	—	3	~~-3.4~~	
4	-3.3	3.4	4	~~-2.4~~ -3.4	-3.4
5	-2.4	-2.4	5	~~-1.4~~ -2.4	-2.4
6	-1.3	-1.4	6	~~0~~ -1.4	-1.4
7	-.0	.0	7	~~-1.8~~ 0	0
8	-1.6	-1.7	8	~~-1.0~~ -1.8	-1.6
9	-.7	-.1.0	9	~~2~~ -1.0	-1.0
10	0	0	10	~~0~~ .2	.2
11	0	0	11	0	0
12	1.3	-1.5	12	-1.4	-1.6
13	-.2	-.4	13	-2.2	-2.2
14	-.7	-.4	14	-.2	-.6
15	-.4	-1.3	15	-0.4	-.4
16	-.3	-1.3	16	-1.2	-1.2
17	-1.4	-1.4	17	-1.4	-1.4
18	-1.1	-1.3	18	-1.2	-1.4
19	-1.6	-2.6	19	-2.6	-2.8
20	-1.1	-1.1	20	-1.0	-1.0
21	-0	0	21	0	-.2
22	-1.4	-1.5	22	-1.6	-1.4

BORE ① 18.10

BORE ② 18.45

BORE ③ 51.75

EL 202.30

BORES

① 2.12

② 1.93

③ 5.25

E.L. 201.13

DATE	05-01-11		DATE	06-01-11	
TIME.	6 Pm		TIME.	12:00	
Dam EL	207·09		Dam EL	207·12	
Tail Water EL:	205·05		Tail Water EL:	205,22.	

Piez.No.	INLET	OUTLET	Piez.No.	INLET	OUTLET
1	-2·0	-2·1	1	-2·0	-2·0
2	-0·2	+0	2	-0·0	+1·0
3	—	—	3	—	—
4	-3·3	-3·3	4	-3·3	-3·2
5	-2·3	-2·3	5	-2·1	-2·2
6	-1·2	-1·2	6	-1·2	-1·2
7	0	-0	7	-0·0	-0·0
8	-1·6	-1·6	8	-1·5	-1·6
9	-1·0	-0·9	9	-1·0	-1·0
10	-0·2	-0·3	10	+2·0	+1·0
11	-0·1	-0·2	11	+1·0	0·0
12	-1·5	-1·4	12	-1·4	-1·5
13	-2·1	-2·1	13	-2·1	-2·1
14	-0·2	-0·7	14	-0·6	-0·2
15	-0·5	-0·5	15	-0·4	-0·5
16	-1·3	-1·1	16	-1·2	-1·2
17	-1·5	-1·5	17	-1·4	-1·4
18	-1·3	-1·3	18	-1·3	-1·2
19	-2·6	-2·6	19	-2·6	-3·0
20	-1·1	-1·1	20	-1·1	-1·0
21	-0	0	21	-0·1	-0·0
22	-1·5	-1·5	22	-1·5	-1·5

BORE 1 2150 BORE 1 2010

BORE 2 ~~[illegible]~~ 1995 BORE 2 2090

BORE 3 5225. BORE 3 5280

CHANNEL EL. 201·05 CHANNEL EL 201,06.

DATE	06-01-11		DATE	6-1-11	
TIME.	06:00 AM		TIME.	12:00 Pm	
Dam EL	206.99		Dam EL	207.09	
Tail Water EL:	205.37		Tail Water EL:	205.48	

Piez.No.	INLET	OUTLET	Piez.No.	INLET	OUTLET
1	-3	-2	1	-2.0	-2.0
2	0	+.3	2	0.0	0.0
3	—	—	3		
4	-.6	-3.3	4	-3.4	-3.2
5	-3.3	-2.2	5	-2.4	-2.2
6	-2.2	-1.1	6	-1.2	-1.0
7	0	0	7	0.0	0.0
8	-1.5	-1.5	8	-1.4	-1.4
9	-1	-.6	9	-0.8	-1.0
10	+.4	+.2	10	+.2	+.4
11	+.2	+.2	11	+.2	+.2
12	-1.4	-1.4	12	-1.4	-1.4
13	-2.1	-2.1	13	-2.0	-2.0
14	-.4	-.2	14	0.0	-0.4
15	-.4	-.4	15	-0.4	-0.4
16	-1.1	-1.1	16	-1.0	-1.2
17	-1.3	-1.4	17	-1.4	-1.4
18	-1.3	-1.4	18	-1.2	-1.2
19	-3	-3	19	-2.5	-2.4
20	-1	-1	20	-1.0	-1.0
21	0	0	21	0.0	0.0
22	-1.4	-1.4	22	-1.4	-1.4

BORE 1 2265

BORE 2 2115

BORE 3 5285

CHANNEL EL 201,02.

BORES

A2 2.110

A1 2.275

A3 5.280

CHANNEL 201.02

DATE 06-01-11			DATE 07-01-11		
TIME.	6PM		TIME.		
Dam EL	207·10		Dam EL	207-13	
Tail Water EL:	205·60		Tail Water EL:	205·75	

Piez.No.	INLET	OUTLET	Piez.No.	INLET	OUTLET
1	2·0	2·0	1		
2	0	0·1	2		
3	—	—	3	—	—
4	3·3	3·3	4		
5	2·3	2·3	5		
6	1·1	1·1	6		
7	0	0·1	7		
8	1·5	1·5	8		
9	0·9	0·8	9		
10	-0·2	-0·4	10		
11	-0·2	-0·2	11		
12	1·5	1·5	12		
13	2	2	13		
14	0·1	0·2	14		
15	0·4	0·4	15		
16	1	1	16		
17	1·3	1·5	17		
18	1·2	1·2	18		
19	2·5	2·5	19		
20	1·2	1·2	20		
21	0	0	21		
22	1·5	1·5	22		

BORE 1. 2295

BORE 2. 2140

BORE 3 5290

CHANNEL E.L. 201·04

BORE 1 2325

BORE 2 2170

BORE 3 5315

CHANNEL EL 201,05

DATE	12.01.11		DATE	13.01-11	
TIME.	18:00		TIME.	12:15	
Dam EL	207.06		Dam EL	207,05	
Tail Water EL:	205.35		Tail Water EL:	205,28	

Piez.No.	INLET	OUTLET	Piez.No.	INLET	OUTLET
1	-1.8	-1.7	1	-1.7	-1.6
2	0.0	-0.1	2	0.0	0.0
3			3	–	–
4	-3.0	-2.5	4	-3.0	-2.0
5	-2.1	-2.0	5	-2.0	-2.0
6	-1.0	-1.0	6	-0.7	-1.0
7	0.0	0.0	7	+1.1	+1.0
8	-1.1	-1.2	8	-1.0	-1.1
9	-0.5	-0.6	9	-0.5	-0.6
10	+0.4	+0.6	10	+0.5	+0.4
11	0.0	0.0	11	0.0	+0.1
12	-1.2	-1.1	12	-1.0	-1.1
13	-2.0	-1.5	13	-1.5	-1.4
14	-0.2	0.0	14	0.0	0.0
15	-0.2	-0.2	15	-0.2	-0.2
16	-0.6	-0.5	16	-0.6	-0.6
17	-1.0	-1.2	17	-1.2	-1.0
18	-1.1	-1.1	18	-0.1	-1.1
19	-1.6	-1.8	19	-1.6	-1.7
20	-1.0	-1.0	20	-0.9	-0.7
21	-0.1	-0.2	21	-0.2	-0.0
22	-1.9	-1.4	22	-1.4	-1.4

DATE 13-1-11			DATE 13-1-11		
TIME.	06:00		TIME.	12:00	
Dam EL	207.04		Dam EL	207.06	
Tail Water EL:	205.22.		Tail Water EL:	205.05	

Piez.No.	INLET	OUTLET	Piez.No.	INLET	OUTLET
1	-1.6	-1.7	1	-1.6	-1.6
2	+0.1	+0.3	2	-0.1	0
3	~~-3.0~~	—	3	—	—
4	-3.0	-3.0	4	-3.0	-2.9
5	-2.0	-2.0	5	-2.01	-2.01
6	-0.8	-0.8	6	-1.00	-0.9
7	+0.2	+0.2	7	0.0	-0.01
8	-1.1	-1.1	8	-1.05	-1.04
9	-0.6	-0.6	9	-0.6	-0.6
10	+0.6	+0.4	10	+0.3	+0.2
11	+0.2	+0.2	11	+0.1	0.0
12	-1.0	-0.9	12	-1.0	-1.1
13	-1.6	-1.5	13	-1.5	-1.4
14	-0.0	0	14	0.0	-0.3
15	-0.2	-0.2	15	-0.2	-0.2
16	-0.7	-0.4	16	-0.7	-0.6
17	-1.0	-1.0	17	-1.0	-1.1
18	-1.0	-1.0	18	-1.0	-1.0
19	-1.6	-1.6	19	-1.5	-1.6
20	-0.7	-0.8	20	-0.8	-0.8
21	0	0	21	0.0	0.0
22	-1.3	-1.2	22	-1.3	-1.3

DATE	13-1-11		DATE	14-1-11	
TIME.	18:00		TIME.	12:00	
Dam EL	207.06		Dam EL	207.08	
Tail Water EL:	205.02		Tail Water EL:	204.84	

Piez.No.	INLET	OUTLET	Piez.No.	INLET	OUTLET
1	-1.8	-1.7	1	-1.7	-1.7
2	0.0	0.0	2	0.0	0
3	—	—	3	—	—
4	-2.8	2.8	4	-2.6	-2.6
5	-2.2	-2.2	5	-2.0	-2.0
6	-1.1	-1.1	6	-1.0	-1.1
7	-0.2	-0.2	7	0.0	0.0
8	-1.4	-0.9	8	-1.4	-1.4
9	-0.6	-0.6	9	-0.6	-0.6
10	+0.2	+0.3	10	+.1	-0.2
11	0.0	0.0	11	0.0	0.0
12	-1.3	-1.2	12	-1.1	-1.1
13	-1.3	-1.3	13	-1.4	-1.5
14	-0.4	-0.5	14	-0.5	-0.3
15	-0.3	-0.2	15	-0.2	-0.2
16	-0.6	-0.6	16	-0.7	-0.7
17	-1.2	-1.2	17	-1.1	-1.0
18	-1.0	-1.0	18	-1.0	-1.0
19	-1.7	-1.7	19	-1.6	-1.6
20	-1.0	-1.0	20	-1.0	-1.0
21	0.0	0.0	21	0.0	-0.0
22	-1.4	-1.9	22	1.4	-1.4

DATE	14 – 1 – 11		DATE	14-1-11	
TIME.	06:00		TIME.	12:00.	
Dam EL	207,07		Dam EL	207.04	
Tail Water EL:	204.75		Tail Water EL:	204.64	

Piez.No.	INLET	OUTLET	Piez.No.	INLET	OUTLET
1	-1.7	-1.7	1	-1.8	-1.8
2	+0.2	+0.3	2	-0.2	0.0
3	—	—	3	—	—
4	-2.7	-2.7	4	-2.8	-2.8
5	-0.2	-2.0	5	-2.2	-2.2
6	-0.1	-1.0	6	-1.1	-1.1
7	0.0	0.0	7	-0.2	0.0
8	-1.3	-1.2	8	-1.5	-1.5
9	-0.6	-0.6	9	-0.6	-.7
10	+0.4	+0.4	10	-0.0	0.0
11	+0.2	+0.2	11	-0.0	0.0
12	-1.0	-1.0	12	-1.2	-1.2
13	-1.5	-1.5	13	-1.3	-1.4
14	-0.3	-0.2	14	-0.3	-0.3
15	-0.2	-0.2	15	-0.3	-0.3
16	-0.7	-0.7	16	-0.7	-0.7
17	-1.0	-1.0	17	-0.2	-0.1
18	-0.9	-0.9	18	-0.1	-1
19	-1.6	-1.6	19	-1.6	-1.6
20	-0.7	-0.7	20	-0.1	-0.1
21	0.0	0.0	21	-0.0	-0.0
22	-1.2	-1.2	22	-1.4	-1.3

DATE	14-1-11		DATE	15-1-11	
TIME.	6PM		TIME.	12:15	
Dam EL	207.04		Dam EL	207.07	
Tail Water EL:	204.50		Tail Water EL:	204.35	

Piez.No.	INLET	OUTLET	Piez.No.	INLET	OUTLET
1	1.8	1.8	1	-1.9	-1.7
2	0.2	0.1	2	-0.1	-0
3	~~2.8~~	~~2.4~~	3	—	—
4	2.8	2.8	4	-2.7	-2.8
5	2.4	2.2	5	-2.1	-2.1
6	1.3	1.3	6	-1.1	-1.1
7	0.3	0.3	7	-0.1	-0.1
8	1.6	1.6	8	-1.5	-1.5
9	0.6	0.6	9	-0.7	-0.7
10	0	0.1	10	-0	-0
11	0	0	11	-0	-0
12	1.3	1.4	12	-1.1	-1.1
13	1.2	1.2	13	-1.4	-1.4
14	0.8	0.7	14	-0.7	-0.5
15	0.3	0.3	15	-0.3	-0.2
16	0.6	0.6	16	-0.7	-0.8
17	1.1	1.1	17	-1.1	-1.0
18	1.0	1.0	18	-1.0	-1.0
19	1.6	1.7	19	-1.8	-1.6
20	1	1	20	-0.9	-0.9
21	0	0	21	-0.2	-0.1
22	1.4	1.4	22	-1.4	-1.4

BORE 1 2.090

BORE 2 2.040

BORE 3 5.230

TANNEL EL. 201.70

DATE	15-1-11		DATE	15 1 2011	
TIME.	06.00AM		TIME.	12 MIDDAY	
Dam EL	207.06		Dam EL	~~206.09~~	207.00
Tail Water EL:	204.26		Tail Water EL:	204.15	

Piez.No.	INLET	OUTLET	Piez.No.	INLET	OUTLET
1	-1.7	1.8	1	-1.7	+1.8
2	0.0	+0.2	2	0.0	+0.2
3	—	—	3	—	
4	-2.7	-2.7	4	-2.7	-2.8
5	-2.0	-2.0	5	-2.1	-2.1
6	-1.1	-1.0	6	-1.2	-1.21
7	0.0	0.0	7	-0.2	-0.1
8	-1.5	-1.5	8	-1.5	-1.6
9	-0.6	-0.7	9	-0.6	-0.7
10	+0.2	+0.2	10	-0.2	0.0
11	+0.2	+0.2	11	+0.1	0.0
12	-1.0	-1.0	12	-0.1	-1.1
13	-1.5	-1.5	13	-1.4	-1.3
14	-0.6	-0.3	14	-0.5	-0.6
15	-0.2	-0.2	15	-0.3	-0.3
16	-0.8	-0.8	16	-0.8	-0.8
17	-1.0	-1.0	17	-1.0	-1.0
18	-0.8	-0.9	18	-0.8	-0.9
19	-1.6	-1.9	19	-1.6	-1.6
20	-0.8	-0.9	20	-0.8	-0.9
21	0.0	0.0	21	0.0	0.0
22	1.3	-1.2	22	-1.3	-1.3

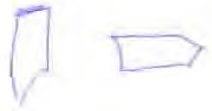
DATE	15-1-11		DATE	16-1-11	
TIME.	6 Pm		TIME.	12:15	
Dam EL	207.01		Dam EL	207.05	
Tail Water EL:	204.05		Tail Water EL:	203.68	

Piez.No.	INLET	OUTLET	Piez.No.	INLET	OUTLET
1	1.9	1.9	1	-1.7	-1.9
2	0.1	0.2	2	-0.	0
3	—	—	3	—	—
4	2.8	2.9	4	-2.6	-2.6
5	2.3	2.3	5	-2.0	-2.0
6	1.3	1.3	6	-1.2	-1.2
7	0.4	0.3	7	-.2	-0.2
8	1.7	1.7	8	-1.6	-1.6
9	0.6	0.7	9	-.7	-0.6
10	0.2	0.1	10	-0	-0
11	0.1	0	11	-0	-0
12	1.3	1.4	12	-1.2	-1.2
13	1.2	1.2	13	-1.5	-1.5
14	0.6	0.8	14	-0.7	-0.5
15	0.3	0.2	15	-0.2	-0.3
16	0.8	0.7	16	-0.9	-0.9
17	1.1	1.1	17	-1.0	-1.0
18	0.9	0.9	18	-0.9	-1.0
19	0.7	1.8	19	-1.6	-1.7
20	1	1	20	-0.9	-0.9
21	0	0	21	-0	-0
22	1.4	1.4	22	-1.3	-1.4

DATE 15.01.2011			DATE 16-1-11		
TIME.			TIME.	6 PM	
Dam EL			Dam EL	207.04	
Tail Water EL:			Tail Water EL:	203.28	

Piez.No.	INLET	OUTLET	Piez.No.	INLET	OUTLET
1	-1.7		1	1.9	2.0
2	-0.0		2	0.3	0.1
3	- ~~2.8~~		3	—	—
4	-2.8		4	2.9	2.8
5	-1.2		5	2.3	2.4
6	1.2		6	1.4	1.4
7	-0.2		7	0.4	0.4
8	-1.5		8	1.9	1.9
9	-0.7		9	0.7	0.7
10	-0.0		10	0.3	0.3
11	-0.0		11	0.1	0.1
12			12	1.4	1.4
13			13	1.3	1.2
14			14	1.0	0.8
15			15	0.3	0.3
16			16	0.9	0.9
17			17	1.1	1.1
18			18	0.9	1.0
19			19	1.8	1.8
20			20	1.1	1.1
21			21	0.1	0
22			22	1.4	1.4

Inlet



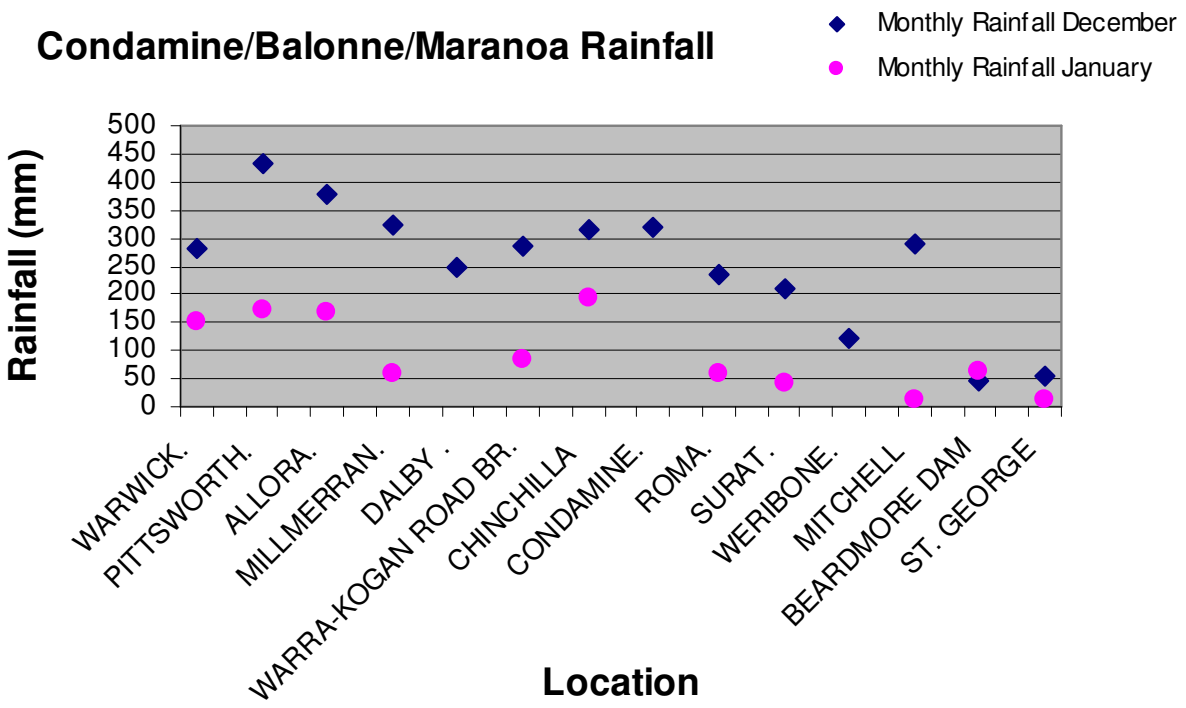
12 o'clock

Outlet

EMERGENCY EVENT – HEADWATERS AND CATCHMENT RAINFALL DATA.

Condamine/Balonne and Maranoa Rivers
Catchment Rainfall Data.

Location	Monthly Rainfall	
	December	January
WARWICK.	282.4	149.2
PITTSWORTH.	433.6	170.4
ALLORA.	379	169
MILLMERRAN.	325	56.9
DALBY AIRPORT.	247.4	
WARRA-KOGAN ROAD BR.	285.3	84.8
CHINCHILLA WTP	313.7	194.7
CONDAMINE.	318.5	
ROMA.	233.6	58.8
SURAT.	208.6	42
WERIBONE.	121	
MITCHELL	292	11
BEARDMORE DAM	46.2	62.8
ST. GEORGE (AIR PORT)	52.8	12.6



Beardmore Dam - Rainfall Data (November 2010 – February 2011)

DATE	MAX TEMP	MIN TEMP	RAINFALL	EVAP
1/11/2010	21	9	20.0	1.4
2/11/2010	25	8	0.0	5.8
3/11/2010	29	11	0.0	5.4
4/11/2010	30	15	0.0	6.6
5/11/2010	31	15	0.0	
6/11/2010	30	12	14.4	
7/11/2010	33	19	2.2	18.0
8/11/2010	33	18	0.0	6.6
9/11/2010	33	19	0.0	6.4
10/11/2010	33	20	0.0	7.2
11/11/2010	34	21	0.0	7.2
12/11/2010	33	23	0.0	
13/11/2010	30	21	0.0	
14/11/2010	31	21	0.8	19.4
15/11/2010	25	19	15.0	1.0
16/11/2010	28	17	14.2	4.2
17/11/2010	31	21	0.0	5.0
18/11/2010	25	14	7.0	2.4
19/11/2010	31	17	0.0	
20/11/2010	29	17	14.2	
21/11/2010	21	16	21.8	13.6
22/11/2010	27	16	0.0	5.2
23/11/2010	28	15	0.0	5.6
24/11/2010	30	16	0.0	7.0
25/11/2010	28	19	0.0	6.2
26/11/2010	30	17	0.0	
27/11/2010	28	19	0.0	
28/11/2010	28	18	8.0	15.2
29/11/2010	24	17	40.4	3.6
30/11/2010	23	18	2.4	4.0
		TOTAL	**160.4**	

DATE	MAX TEMP	MIN TEMP	RAINFALL	EVAP
1/12/2010	31	20	0.0	5.0
2/12/2010	30	21	1.2	4.0
3/12/2010	22	18	11.6	2.0
4/12/2010	28	18	8.8	2.0
5/12/2010	31	19	0.0	4.0
6/12/2010	30	20	0.0	5.6
7/12/2010	31	22	0.0	1.0
8/12/2010	33	18	0.0	5.2
9/12/2010	35	24	0.4	8.0
10/12/2010	30	18	0.6	2.6
11/12/2010	26	19	3.0	1.0
12/12/2010	34	22	0.0	4.1
13/12/2010	35	21	0.0	9.2
14/12/2010	37	20	0.0	8.0
15/12/2010	37	21	1.2	3.2
16/12/2010	38	23	0.0	8.2

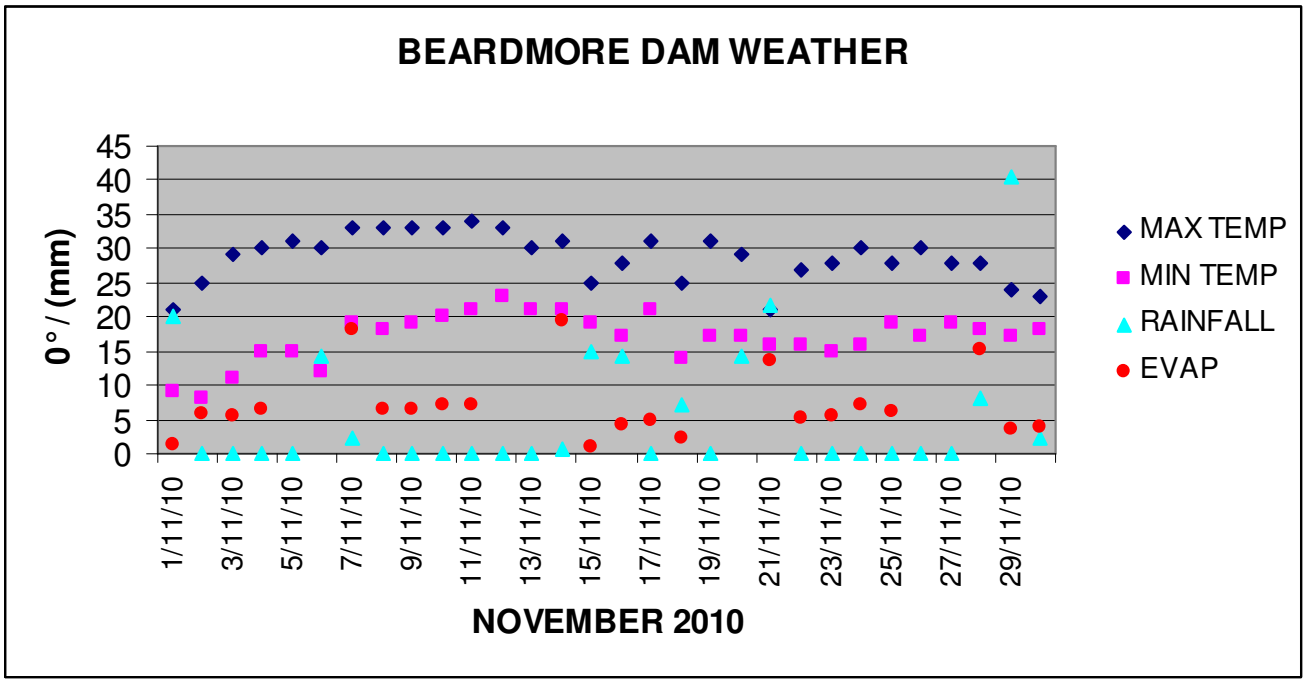
17/12/2010	32	22	0.0	8.0
18/12/2010	31	21	0.4	2.4
19/12/2010	25	15	2.0	1.2
20/12/2010	27	9	0.0	7.2
21/12/2010	32	15	0.0	7.4
22/12/2010	32	15	0.0	4.8
23/12/2010	30	20	0.0	3.4
24/12/2010	31	22	0.0	4.0
25/12/2010	30	21	2.0	4.4
26/12/2010	25	20	1.4	11.0
27/12/2010	37	18	3.6	3.6
28/12/2010	34	18	0.0	8.0
29/12/2010	35	20	0.0	7.4
30/12/2010	37	20	0.0	7.6
31/12/2010	38	21	0.0	6.8
		TOTAL	**36.2**	

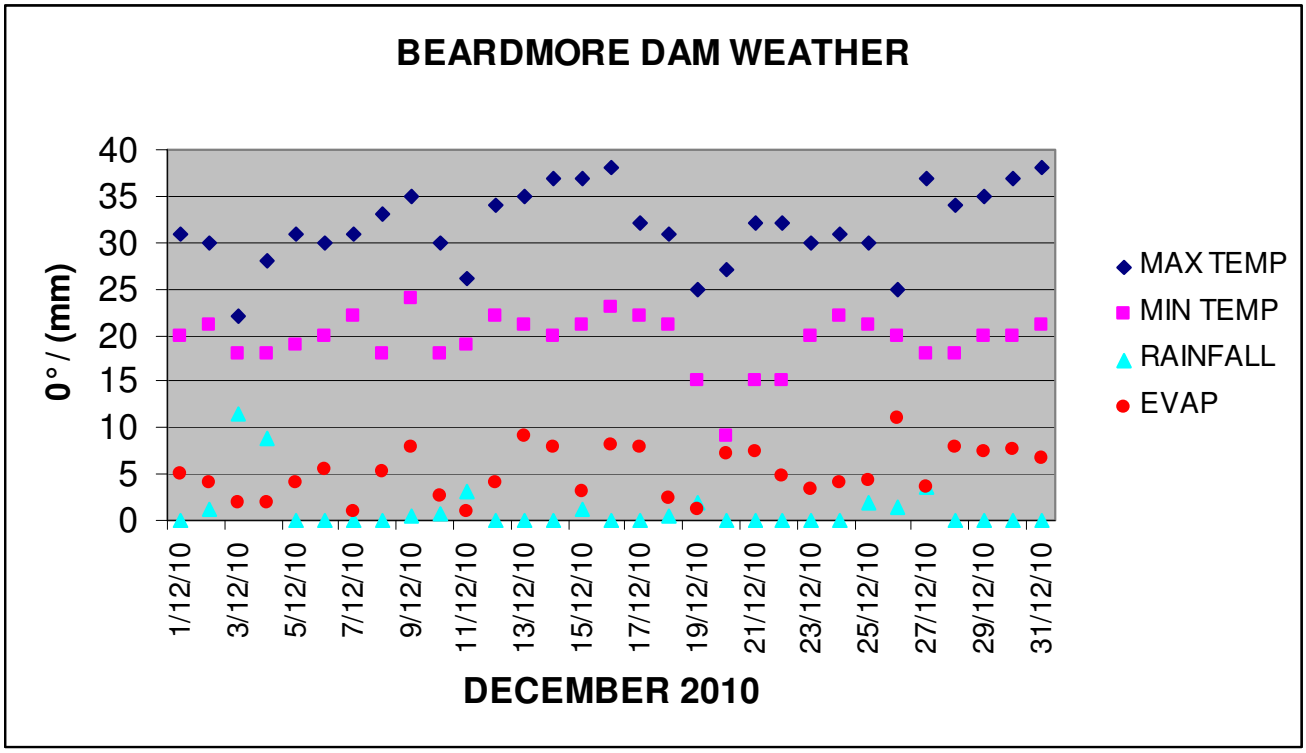
DATE	MAX TEMP	MIN TEMP	RAINFALL	EVAP
1/01/2011	38	23	0.0	9.2
2/01/2011	37	21	0.0	8.0
3/01/2011	39	23	0.0	7.0
4/01/2011	38	21	32.0	10.4
5/01/2011	25	12	9.8	2.5
6/01/2011	33	20	0.0	5.3
7/01/2011	31	19	0.0	6.2
8/01/2011	34	20	0.0	6.8
9/01/2011	30	23	0.0	5.8
10/01/2011	32	20	12.0	6.4
11/01/2011	32	23	0.0	6.4
12/01/2011	32	22	9.0	5.0
13/01/2011	33	21	0.0	9.4
14/01/2011	34	21	0.0	8.0
15/01/2011	35	22	0.0	4.0
16/01/2011	37	24	0.0	7.5
17/01/2011	39	24	0.0	7.4
18/01/2011	38	20	0.0	9.6
19/01/2011	38	21	0.0	4.0
20/01/2011	36	20	0.0	6.8
21/01/2011	35	20	0.0	8.0
22/01/2011	36	20	0.0	7.6
23/01/2011	36	20	0.0	7.6
24/01/2011	38	23	0.0	7.8
25/01/2011	43	25	0.0	9.6
26/01/2011	43	25	0.0	9.6
27/01/2011	43	24	0.0	9.0
28/01/2011	42	24	0.0	10.5
29/01/2011	35	19	0.0	8.0
30/01/2011	36	20	0.0	9.4
31/01/2011	39	24	0.0	8.6
		TOTAL	**62.8**	

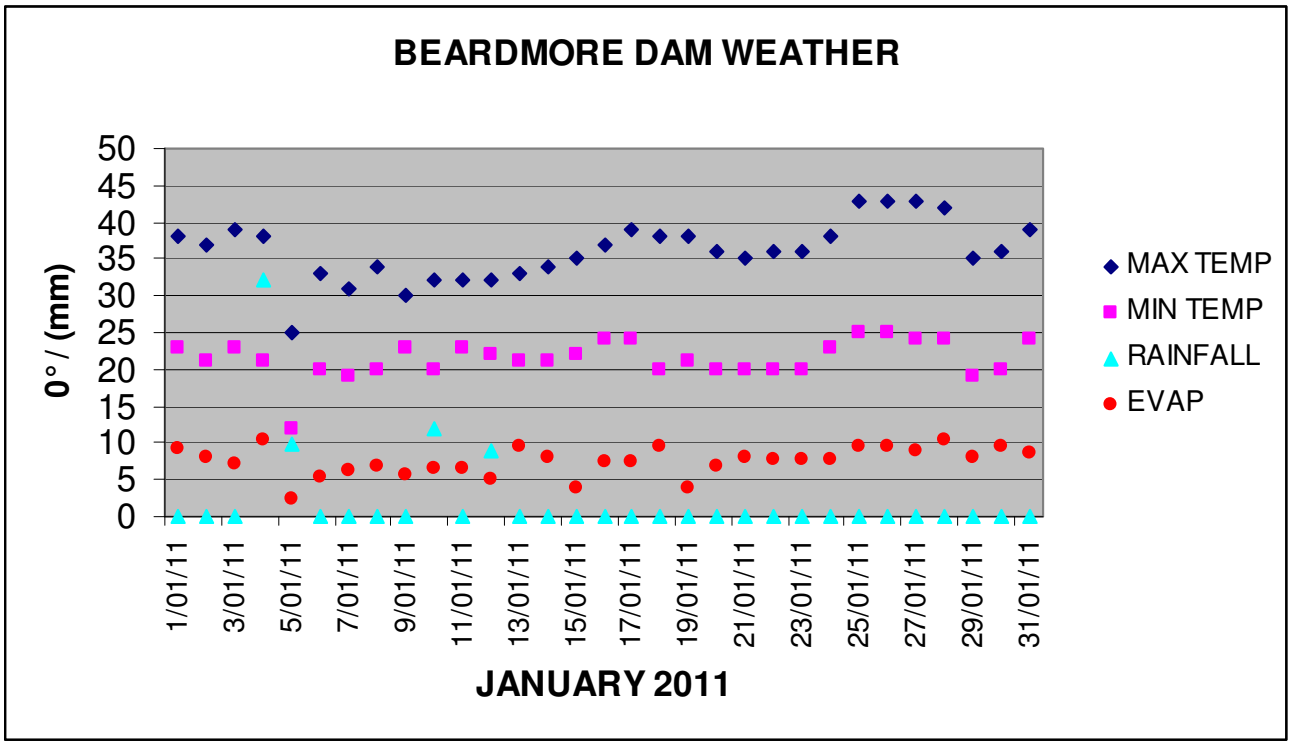
DATE	MAX	MIN	RAINFALL	EVAP

	TEMP	TEMP		
1/02/2011	37	29	0.0	8.0
2/02/2011	39	24	0.0	10.2
3/02/2011	38	24	0.0	6.4
		TOTAL	0 . 0	

Rainfall Data.







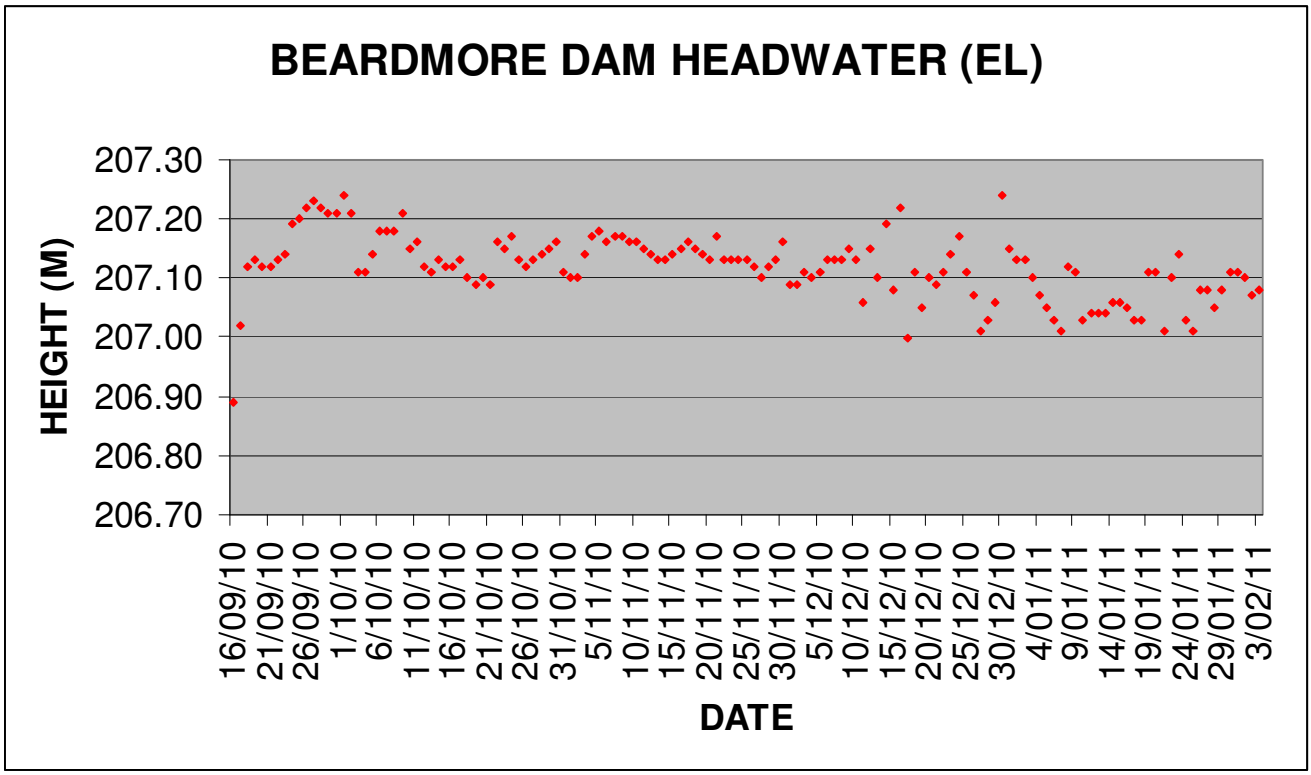
Storage Headwater Levels.

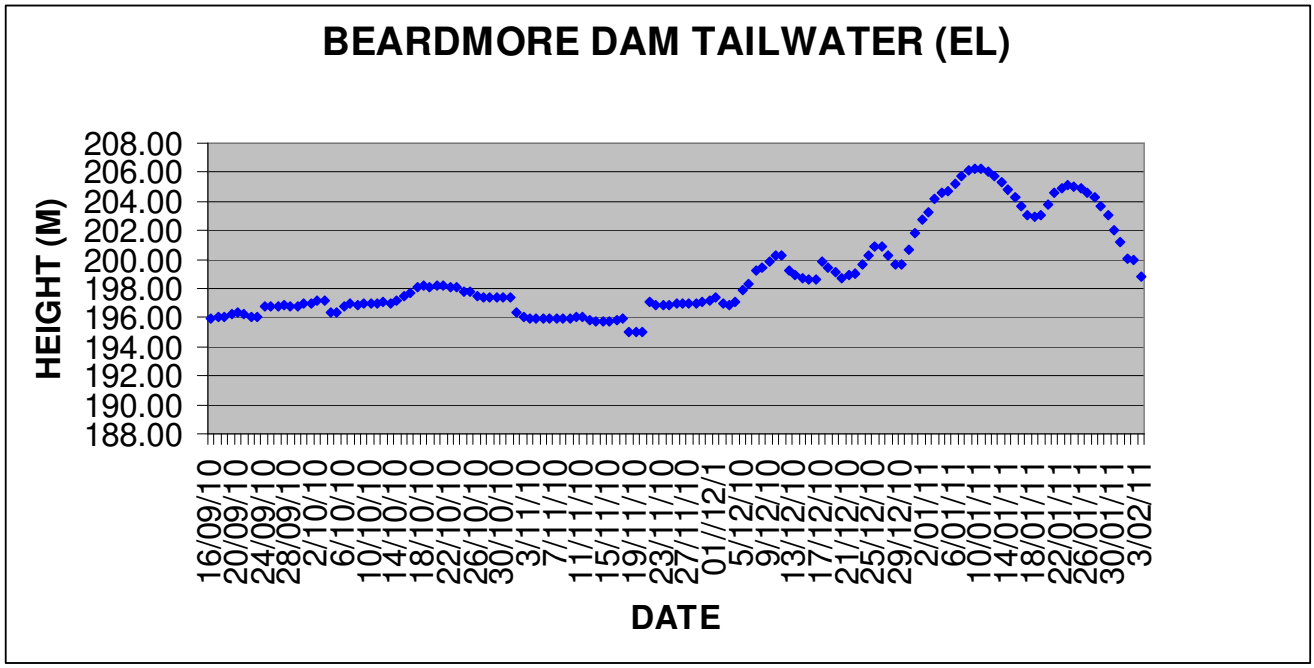
Beardmore Dam Headwater and Tailwater Levels			
Headwater		Tailwater	
16/09/2010	206.89	16/09/2010	195.96
17/09/2010	207.02	17/09/2010	196.02
18/09/2010	207.12	18/09/2010	196.02
19/09/2010	207.13	19/09/2010	196.20
20/09/2010	207.12	20/09/2010	196.30
21/09/2010	207.12	21/09/2010	196.20
22/09/2010	207.13	22/09/2010	196.02
23/09/2010	207.14	23/09/2010	196.02
24/09/2010	207.19	24/09/2010	196.76
25/09/2010	207.20	25/09/2010	196.80
26/09/2010	207.22	26/09/2010	196.80
27/09/2010	207.23	27/09/2010	196.90
28/09/2010	207.22	28/09/2010	196.80
29/09/2010	207.21	29/09/2010	196.80
30/09/2010	207.21	30/09/2010	197.02
1/10/2010	207.24	1/10/2010	197.02
2/10/2010	207.21	2/10/2010	197.13
3/10/2010	207.11	3/10/2010	197.13
4/10/2010	207.11	4/10/2010	196.30
5/10/2010	207.14	5/10/2010	196.30
6/10/2010	207.18	6/10/2010	196.76
7/10/2010	207.18	7/10/2010	197.01
8/10/2010	207.18	8/10/2010	196.90
9/10/2010	207.21	9/10/2010	197.01
10/10/2010	207.15	10/10/2010	197.01

Beardmore Dam Headwater and Tailwater Levels			
Headwater		Tailwater	
11/10/2010	207.16	11/10/2010	196.95
12/10/2010	207.12	12/10/2010	197.11
13/10/2010	207.11	13/10/2010	197.00
14/10/2010	207.13	14/10/2010	197.15
15/10/2010	207.12	15/10/2010	197.45
16/10/2010	207.12	16/10/2010	197.69
17/10/2010	207.13	17/10/2010	198.09
18/10/2010	207.10	18/10/2010	198.22
19/10/2010	207.09	19/10/2010	198.15
20/10/2010	207.10	20/10/2010	198.22
21/10/2010	207.09	21/10/2010	198.22
22/10/2010	207.16	22/10/2010	198.09
23/10/2010	207.15	23/10/2010	198.09
24/10/2010	207.17	24/10/2010	197.77
25/10/2010	207.13	25/10/2010	197.75
26/10/2010	207.12	26/10/2010	197.45
27/10/2010	207.13	27/10/2010	197.36
28/10/2010	207.14	28/10/2010	197.36
29/10/2010	207.15	29/10/2010	197.36
30/10/2010	207.16	30/10/2010	197.36
31/10/2010	207.11	31/10/2010	197.36
1/11/2010	207.10	1/11/2010	196.35
2/11/2010	207.10	2/11/2010	196.02
3/11/2010	207.14	3/11/2010	195.90
4/11/2010	207.17	4/11/2010	195.90
5/11/2010	207.18	5/11/2010	195.90
6/11/2010	207.16	6/11/2010	195.90
7/11/2010	207.17	7/11/2010	195.95
8/11/2010	207.17	8/11/2010	195.95
9/11/2010	207.16	9/11/2010	195.95
10/11/2010	207.16	10/11/2010	196.00
11/11/2010	207.15	11/11/2010	196.00
12/11/2010	207.14	12/11/2010	195.83
13/11/2010	207.13	13/11/2010	195.76
14/11/2010	207.13	14/11/2010	195.76
15/11/2010	207.14	15/11/2010	195.76
16/11/2010	207.15	16/11/2010	195.82
17/11/2010	207.16	17/11/2010	195.90
18/11/2010	207.15	18/11/2010	195.00
19/11/2010	207.14	19/11/2010	195.00
20/11/2010	207.13	20/11/2010	195.00
21/11/2010	207.17	21/11/2010	197.11
22/11/2010	207.13	22/11/2010	196.90
23/11/2010	207.13	23/11/2010	196.88
24/11/2010	207.13	24/11/2010	196.87
25/11/2010	207.13	25/11/2010	197.00
26/11/2010	207.12	26/11/2010	197.00
27/11/2010	207.10	27/11/2010	197.00
28/11/2010	207.12	28/11/2010	197.00
29/11/2010	207.13	29/11/2010	197.10
30/11/2010	207.16	30/11/2010	197.20

Beardmore Dam Headwater and Tailwater Levels			
Headwater		Tailwater	
1/12/2010	207.09	01//12/10	197.38
2/12/2010	207.09	2/12/2010	197.00
3/12/2010	207.11	3/12/2010	196.87
4/12/2010	207.10	4/12/2010	197.10
5/12/2010	207.11	5/12/2010	197.85
6/12/2010	207.13	6/12/2010	198.28
7/12/2010	207.13	7/12/2010	199.23
8/12/2010	207.13	8/12/2010	199.46
9/12/2010	207.15	9/12/2010	199.88
10/12/2010	207.13	10/12/2010	200.24
11/12/2010	207.06	11/12/2010	200.27
12/12/2010	207.15	12/12/2010	199.20
13/12/2010	207.10	13/12/2010	198.97
14/12/2010	207.19	14/12/2010	198.75
15/12/2010	207.08	15/12/2010	198.67
16/12/2010	207.22	16/12/2010	198.67
17/12/2010	207.00	17/12/2010	199.88
18/12/2010	207.11	18/12/2010	199.45
19/12/2010	207.05	19/12/2010	199.18
20/12/2010	207.10	20/12/2010	198.70
21/12/2010	207.09	21/12/2010	198.97
22/12/2010	207.11	22/12/2010	198.98
23/12/2010	207.14	23/12/2010	199.68
24/12/2010	207.17	24/12/2010	200.28
25/12/2010	207.11	25/12/2010	200.89
26/12/2010	207.07	26/12/2010	200.89
27/12/2010	207.01	27/12/2010	200.23
28/12/2010	207.03	28/12/2010	199.68
29/12/2010	207.06	29/12/2010	199.68
30/12/2010	207.24	30/12/2010	200.68
31/12/2010	207.15	31/12/2010	201.80
1/01/2011	207.13	1/01/2011	202.73
2/01/2011	207.13	2/01/2011	203.25
3/01/2011	207.10	3/01/2011	204.15
4/01/2011	207.07	4/01/2011	204.57
5/01/2011	207.05	5/01/2011	204.75
6/01/2011	207.03	6/01/2011	205.21
7/01/2011	207.01	7/01/2011	205.75
8/01/2011	207.12	8/01/2011	206.11
9/01/2011	207.11	9/01/2011	206.24
10/01/2011	207.03	10/01/2011	206.24
11/01/2011	207.04	11/01/2011	206.02
12/01/2011	207.04	12/01/2011	205.75
13/01/2011	207.04	13/01/2011	205.27
14/01/2011	207.06	14/01/2011	204.83
15/01/2011	207.06	15/01/2011	204.34
16/01/2011	207.05	16/01/2011	203.68
17/01/2011	207.03	17/01/2011	203.08
18/01/2011	207.03	18/01/2011	202.93
19/01/2011	207.11	19/01/2011	203.07
20/01/2011	207.11	20/01/2011	203.75

Beardmore Dam Headwater and Tailwater Levels			
Headwater		Tailwater	
21/01/2011	207.01	21/01/2011	204.60
22/01/2011	207.10	22/01/2011	204.89
23/01/2011	207.14	23/01/2011	205.07
24/01/2011	207.03	24/01/2011	205.03
25/01/2011	207.01	25.01.2011	204.90
26/01/2011	207.08	26/01/2011	204.60
27/01/2011	207.08	27/01/2011	204.27
28/01/2011	207.05	28/01/2011	203.62
29/01/2011	207.08	29/01/2011	203.06
30/01/2011	207.11	30/01/2011	202.00
31/01/2011	207.11	31/01/2011	201.18
1/02/2011	207.10	1/02/2011	200.03
2/02/2011	207.07	2/02/2011	199.98
3/02/2011	207.08	3/02/2011	198.85


BEARDMORE DAM HEADWATER (EL)
HEIGHT (M)
207.30
207.20
207.10
207.00
206.90
206.80
206.70
16/09/10
21/09/10
26/09/10
1/10/10
6/10/10
11/10/10
16/10/10
21/10/10
26/10/10
31/10/10
5/11/10
10/11/10
15/11/10
20/11/10
25/11/10
30/11/10
5/12/10
10/12/10
15/12/10
20/12/10
25/12/10
30/12/10
4/01/11
9/01/11
14/01/11
19/01/11
24/01/11
29/01/11
3/02/11
DATE


BEARDMORE DAM TAILWATER (EL)
HEIGHT (M)
208.00
206.00
204.00
202.00
200.00
198.00
196.00
194.00
192.00
190.00
188.00
DATE

EMERGENCY EVENT REPORT – BEARDMORE DAM – 16th November 2010 to 3rd February 2011

ST. GEORGE IRRIGATION AREA

BEARDMORE DAM DAILY LOG SHEET

DATE	TIME	STORAGE LEVEL (M)	STORAGE VOLUME (ML)	CREST GATE OPERATION 1	2	3	4	5	6	7	8	9	10	11	12	GATE RELEASE (ML)	RIVER OUTLET SETTING	RIVER RELEASE	TAILWATER R.L. (M)	IRRIGATION OUTLET (ML)	TOTAL OUTFLOW (ML)
16/09/2010	08:00	206.89	75521													0	730	730	195.96	0	730
	12:00					0.12										1,000	Shut	122	195.96	0	122
17/09/2010	08:00	207.02	78907			0.12										1,000	0	833	196.02	222	1,055
	16:00					0.18										1,500	0	333	196.02		333
18/09/2010	08:00	207.12	81766			0.18										1,500	0	1,000	196.02	250	1,250
	12:00	207.13	82109		0.06	0.25										2,525	0	250	196.02		250
19/09/2010	07:30	207.13	82109		0.06	0.25	0.06									3,030	0	2,052	196.20	256	2,308
20/09/2010	08:00	207.12	81766			0.25										2,040	0	3,093	196.30	134	3,227
21/09/2010	08:00	207.12	81766			0.25										2,040	0	2,040	196.20	0	2,040
	10:00	207.12	81766			0.18										1,500	0	170	196.20	0	170
	16:00	207.12	81766			0.12										1,000	0	375		0	375
22/09/2010	08:00	207.13	82052			0.12										1,000	0	667	196.02	0	667
23/09/2010	08:00	207.14	82338			0.12										1,000	0	1,000	196.02	0	1,000
	16:00	207.15	82560			0.25										2,040	0	333	196.02	0	333
	07:30	207.19	83768		0.60	0.36	0.60									4,000	0	1,317	196.02	0	1,317
24/09/2010	08:00	207.19	83768		0.60	0.36	0.60									4,000	0	83		0	83
	16:00	207.19			0.13	0.36	0.13									5,060	0	1,333	196.76	0	1,333
25/09/2010	08:00	207.20	84054		0.13	0.36	0.13									5,060	0	3,373	196.80	0	3,373
26/09/2010	08:00	207.22	84626		0.13	0.36	0.13									5,060	0	5,060	196.80	0	5,060
	14:00	207.22	84626		0.15	0.44	0.15									6,030	0	1,265	196.80	0	1,265
27/09/2010	08:00	207.23	84912		0.15	0.44	0.15									6,030	0	4,523	196.90	0	4,523
	16:00	207.22	84626		0.13	0.36	0.13									5,060	0	2,010	196.90	0	2,010
28/09/2010	08:00	207.22	84626		0.13	0.36	0.13									5,060	0	3,373	196.80	0	3,373
29/09/2010	08:00	207.21	84340		0.13	0.36	0.13									5,060	0	5,060	196.80	213	5,273
	15:00	207.21	84340		0.15	0.44	0.15									6,030	0	1,476	196.80	0	1,476
	19:00	207.21	84340		0.19	0.48	0.19									6,990	0	1,005	196.90	0	1,005
30/09/2010	08:00	207.21	84340		0.19	0.48	0.19									6,990	0	3,786	197.02	247	4,033
																		47,392		1322	48,714
1/10/2010	08:00	207.24	85198		0.19	0.48	0.19									6,990	0	6,990	197.02	260	7,250
	09:00	207.24	85198		0.25	0.49	0.25									8,040	0	291	197.02	0	291
2/10/2010	08:00	207.21	84340		0.25	0.49	0.25									8,040	0	7,705	197.13	239	7,944
3/10/2010	08:00	207.11	81480		0.13	0.36	0.13									5,060	0	8,040	197.13	203	8,243
	11:00	207.10	81130		0.06	0.36	0.06									4,000	0	633	196.80	0	633
	16:00	207.10	81130		0.06	0.25	0.06									3,030	0	833		0	833
4/10/2010	08:00	207.11	81480		0.06	0.25	0.06									3,030	0	2,020	196.30	15	2,035
5/10/2010	08:00	207.14	82338		0.06	0.25	0.06									3,030	0	3,030	196.30	0	3,030
	13:00	207.15	82560		0.06	0.36	0.06									4,000	0	631	196.30	0	631
6/10/2010	08:00	207.18	83482		0.15	0.44	0.15									6,030	0	3,167	196.76	0	3,167
	16:00	207.18	83311		0.19	0.48	0.19									6,990	0	2,010	196.80	0	2,010
7/10/2010	08:00	207.18	83311		0.19	0.48	0.19									6,990	0	4,660	197.01	123	4,783
	12:00	207.16	82848		0.15	0.44	0.15									6,030	0	1,165	197.01	0	1,165
8/10/2010	08:00	207.18	83482		0.15	0.44	0.15									6,030	0	5,025	196.90	189	5,209
	12:00	207.20	84010		0.19	0.48	0.19									6,990	0	1,005	196.90	0	1,005
9/10/2010	08:00	207.21	84340		0.19	0.48	0.19									6,990	0	5,825	197.01	0	5,825
10/10/2010	07:00	207.15	82624		0.15	0.44	0.15									6,030	0	6,699	197.01	0	6,699

ST. GEORGE IRRIGATION AREA

EMERGENCY EVENT REPORT – BEARDMORE DAM – 16th November 2010 to 3rd February 2011

BEARDMORE DAM DAILY LOG SHEET																					
		STORAGE	STORAGE													GATE	RIVER		TAILWATER	IRRIGATION	TOTAL
DATE	TIME	LEVEL	VOLUME	CREST GATE OPERATION												RELEASE	OUTLET	RIVER	R.L.	OUTLET	OUTFLOW
		(M)	(ML)	1	2	3	4	5	6	7	8	9	10	11	12	(ML)	SETTING	RELEASE	(M)	(ML)	(ML)
	09:00	207.14	82338		0.13	0.36	0.13									5,060	0	503	196.76	0	503
	12:00	207.14	82338		0.06	0.36	0.06									4,000	0	633	196.80	0	633
	16:00	207.14	82338		0.06	0.25	0.06									3,030	0	667	196.55	0	667
11/10/2010	08:00	207.16	82910		0.06	0.25	0.06									3,030	0	2,020	196.30	0	2,020
	10:00	207.16	82910		0.06	0.36	0.06									4,000	0	253	196.30	0	253
	14:00	207.17	86082		0.13	0.36	0.13									5,060	0	667	198.80	0	667
	16:00	207.17	86082		0.15	0.44	0.15									6,030	0	422	196.85	0	422
	18:00	207.17	86082		0.25	0.49	0.25									8,040	0	502	196.95	0	502
12/10/2010	08:00	207.12	81766		0.19	0.48	0.19									6,990	0	4,690	197.11	0	4,690
13/10/2010	08:00	207.11	81480		0.19	0.48	0.19									6,990	0	6,990	197.00	0	6,990
	16:00	207.12	81760		0.25	0.49	0.25									8,040	0	2,330	197.00	0	2,330
14/10/2010	08:00	207.13	82052		0.31	0.49	0.31									9,010	0	5,360	197.15	0	5,360
	09:00	207.13	82052		0.33	0.58	0.33									10,040	0	375	197.20	0	375
15/10/2010	08:00	207.12	81766		0.39	0.58	0.39									11,000	0	9,622	197.28	0	9,622
	11:00	207.13	82052		0.43	0.63	0.43									12,030	0	1,375	197.37	0	1,375
	16:00	207.13	82052		0.49	0.64	0.49									13,060	0	2,506	197.45	0	2,506
16/10/2010	08:00	207.12	81766		0.49	0.77	0.49									14,070	0	8,707	197.55	260	8,967
	17:00	207.12	81766		0.55	0.77	0.55									15,020	0	5,276	197.62	0	5,276
	20:00	207.13	82052		0.62	0.89	0.62									17,050	0	1,878	197.69	0	1,878
17/10/2010	08:00	207.13	82050		0.67	0.92	0.67									18,050	0	8,525	197.84	598	9,123
	13:00	207.14	82338		0.80	0.92	0.80									20,060	0	3,760	197.88	0	3,760
	18:00	207.13	82052	0.12	0.80	0.92	0.80	0.12								22,040	0	4,179	198.09	0	4,179
18/10/2010	08:00	207.10	81194	0.12	0.80	0.92	0.80	0.12								22,040	0	12,857	198.22	348	13,205
	14:00	207.09	80908	0.06	0.80	0.92	0.80	0.06								21,050	0	5,510	198.22	0	5,510
19/10/2010	08:00	207.09	80908	0.06	0.80	0.92	0.80	0.06								21,050	0	15,787	198.15	646	16,433
	22:00	207.09	80908	0.12	0.80	0.92	0.80	0.12								22,040	0	12,279	198.15	0	12,279
20/10/2010	08:00	207.10	81194	0.12	0.80	0.92	0.80	0.12								22,040	0	9,183	198.22	705	9,888
21/10/2010	08:00	207.09	80908		0.80	0.92	0.80									20,060	0	22,040	198.22	734	22,774
22/10/2010	08:00	207.16	82910		0.80	0.92	0.80									20,060	0	20,060	198.09	263	20,323
23/10/2010	08:00	207.15	82624		0.80	0.92	0.80									20,060	0	20,060	198.09	688	20,748
	12:00	207.14	82338		0.67	0.92	0.67									18,050	0	3,343	198.09	0	3,343
	17:00	207.15	82624		0.62	0.76	0.62									16,040	0	3,760	197.93	0	3,760
24/10/2010	08:00	207.17	83196		0.62	0.76	0.62									16,040	0	10,025	197.77	244	10,269
25/10/2010	08:00	207.13	82052		0.49	0.77	0.49									14,070	0	16,040	197.77	253	16,293
	11:00	207.12	81766		0.43	0.63	0.43									12,030	0	1,758	197.75	256	2,014
26/10/2010	08:00	207.12	81766		0.33	0.58	0.33									10,030	0	10,526	197.45	256	6,772
	17:00	207.12	81766		0.31	0.49	0.31									9,010	0	3,761	197.45	0	3,761
27/10/2010	08:00	207.13	82052		0.31	0.49	0.31									9,010	0	5,631	197.36	58	5,689
28/10/2010	08:00	207.13	82052		0.31	0.49	0.31									9,010	0	9,010	197.36	0	9,010
29/10/2010	08:00	207.15	82624		0.31	0.49	0.31									9,010	0	9,010	197.36	0	9,010
30/10/2010	08:00	207.14	82338		0.31	0.49	0.31									9,010	0	9,010	197.36	0	9,010
31/10/2010	08:00	207.10	81194		0.19	0.48	0.19									6,990	0	9,010	197.36	0	9,010
	12:00				0.13	0.36	0.13									5,060		1,165	197.36	0	1,165
	17:00				0.06	0.36	0.06									4,000		1,054	196.80	0	1,054
																		2,500	196.55	0	2,697
ST. GEORGE IRRIGATION AREA																					

EMERGENCY EVENT REPORT – BEARDMORE DAM – 16th November 2010 to 3rd February 2011

BEARDMORE DAM DAILY LOG SHEET																					
		STORAGE	STORAGE													GATE	RIVER		TAILWATER	IRRIGATION	TOTAL
DATE	TIME	LEVEL	VOLUME	CREST GATE OPERATION												RELEASE	OUTLET	RIVER	R.L.	OUTLET	OUTFLOW
		(M)	(ML)	1	2	3	4	5	6	7	8	9	10	11	12	(ML)	SETTING	RELEASE	(M)	(ML)	(ML)
																		337,358		6338	343,696
1/11/2010	08:00	207.10	81194		0.06	0.36	0.06									4,000	0	0	196.55	134	134
	09:00	207.10			0.06	0.25	0.06									3,030	0	167	196.35	0	167
2/11/2010	08:00	207.10	81194			0.12										1,000	0	2,904	196.35	55	2,959
	16:00	207.08	80563													Close	730	333	196.02	0	333
3/11/2010	08:00	207.14	82338														730	487		0	487
	20:00	207.17	83225			0.15										1,220	Close	365	195.90	0	365
4/11/2010	08:00	207.17	83196			0.15										1,220	0	610		0	610
	16:00	207.17				0.18										1,460	0	407		0	407
5/11/2010	08:00	207.18	83482			0.25										2,040	0	973		0	973
	16:00	207.16	82910			0.15										1,220	0	680		0	680
6/11/2010	08:00	207.16	82910			0.15										1,220		813		0	813
	15:00	207.16	82910													Closed	730	356		0	356
7/11/2010	08:00	207.17	83196														730	517	195.95	0	517
8/11/2010	08:00	207.17	83196														730	730	195.95	0	730
9/11/2010	08:00	207.16	82910														830	730	195.95	0	730
10/11/2010	08:00	207.16	82910														830	830	196.00	0	830
11/11/2010	08:00	207.15	82624														830	830	196.00	0	830
	16:00	207.14	82359														500	277	196.00	0	277
12/11/2010	08:00	207.14	82338														500	333	195.83	0	333
	16:00	207.14	83338														300	167	195.83	106	273
13/11/2010	08:00	207.13	82052														300	200	195.76	105	305
14/11/2010	08:00	207.13	82052														300	300	195.76	0	300
15/11/2010	08:00	207.14	82338														300	300	195.76	0	300
	16:00	207.14	82338														400	75	195.76	0	75
16/11/2010	08:00	207.14	82338														400	300	195.76	0	300
	14:00	207.14	82338														600	100	195.76	0	100
	17:00	207.14	82338														800	75	195.82	0	75
17/11/2010	08:00	207.16	82910														800	500	195.90	0	500
18/11/2010	08:00	207.15	82624														800	800	195.00	0	800
19/11/2010	08:00	207.14	82338														800	800	195.00	0	800
20/11/2010	08:00	207.13	82052														800	800	195.00	0	800
	18:00					0.15										1,200	Close	333		0	333
21/11/2010	07:00	207.18	83482			0.25	0.12									3,030		650		0	650
	09:00	207.19				0.36	0.26									5,060		253		0	253
	11:00	207.20		0.26		0.49	0.26									8,040		422		0	422
	19:00			0.15		0.44	0.15									6,030		2,680	197.11	0	2,680
22/11/2010	08:00	207.13	82052		0.13	0.36	0.13									5,060		3,266	196.90	0	3,266
	16:00	207.10			0.06	0.36	0.06									4,000		1,687		0	1,687
23/11/2010	08:00	207.13	82052		0.13	0.36	0.13									5,060		2,667		0	2,667
	10:00				0.15	0.44	0.15									6,030		422		0	422
24/11/2010	08:00	207.13	82052		0.19	0.48	0.19									6,990		5,528	196.87	0	5,528
25/11/2010	08:00	207.13	82052		0.19	0.48	0.19									6,990		6,990	197.00	0	6,990
26/11/2010	08:00	207.13	82052		0.19	0.48	0.19									6,990		6,990	197.00	0	6,990
ST. GEORGE IRRIGATION AREA																					
BEARDMORE DAM DAILY LOG SHEET																					

EMERGENCY EVENT REPORT – BEARDMORE DAM – 16th November 2010 to 3rd February 2011

		STORAGE	STORAGE													GATE	RIVER		TAILWATER	IRRIGATION	TOTAL
DATE	TIME	LEVEL	VOLUME	CREST GATE OPERATION												RELEASE	OUTLET	RIVER	R.L.	OUTLET	OUTFLOW
		(M)	(ML)	1	2	3	4	5	6	7	8	9	10	11	12	(ML)	SETTING	RELEASE	(M)	(ML)	(ML)
27/11/2010		207.10	81194		0.19	0.48	0.19									6,990		6,990	197.00	0	6,990
28/11/2010	08:00	207.12	81700		0.19	0.48	0.19									6,990		6,990	197.00		6,990
	16:00				0.25	0.49	0.25									8,040		2,330	197.00	0	2,330
29/11/2010	08:00	207.13	82052		0.25	0.49	0.25									8,040		5,360	197.10	121	5,481
	09:00	207.13	82052		0.31	0.49	0.31									9,010		335	197.20	0	335
30/11/2010	08:00	207.16	82910		0.39	0.58	0.39									11,000		8,635	197.20	0	8,635
01//12/10	08:00	207.09	80846		0.31	0.49	0.31									9,010		11,000	197.38	411	11,411
																		488,320		7840	496,160
	10:00	207.09	80846		0.25	0.49	0.25									8,040		751	197.20	85	836
	12:00	207.09	80846		0.19	0.48	0.19									6,990		670	197.08	0	670
2/12/2010	08:00	207.09	80908		0.19	0.48	0.19									6,990		5,825	197.00	0	5,825
	09:00	207.09	80908		0.15	0.44	0.15									6,030		291	197.00	0	291
3/12/2010	08:00	207.11	81480		0.19	0.48	0.19									6,990		5,779	196.87	0	5,779
	16:00	207.09	80908		0.25	0.49	0.25									8,040		2,330	197.00	0	2,330
4/12/2010	08:00	207.10	81194		0.25	0.49	0.25									8,040		5,360	197.10	0	5,360
	10:00	207.11	81480		0.33	0.58	0.33									10,040		670	197.10	0	670
	13:00	207.11	81480		0.43	0.63	0.43									12,030		1,255	197.28	0	1,255
	15:00	207.12	81700		0.49	0.77	0.49									14,070		1,003	197.45	0	1,003
	18:00	207.12	81700		0.62	0.89	0.62									17,050		1,759	197.62	0	1,759
5/12/2010	08:00	207.11	81480		0.62	0.89	0.62									17,050		9,946	197.85	166	10,112
	10:00	207.11	81480		0.80	0.92	0.80									20,060		1,421	197.85	0	1,421
	22:00	207.11	81480	0.18	0.80	0.92	0.80	0.18								23,010		10,030	198.08	0	10,030
6/12/2010	08:00	207.13	82014	0.37	0.92	0.93	0.92	0.37								28,050		9,588	198.28	0	9,588
	09:00	207.13	82014	0.31	0.96	1.25	0.96	0.31								30,040		1,169	198.54	0	1,169
	16:00	207.13	82014	0.31	1.25	1.34	1.25	0.31								35,040		8,762	198.73		8,762
	01:00	207.13	82014	0.31	1.30	1.61	1.30	0.31	0.04	0.04	0.04	0.04	0.04	0.04	0.04	40,040		13,140	198.93		13,140
7/12/2010	08:00	207.13	82052	0.31	1.30	1.61	1.30	0.31	0.04	0.04	0.04	0.04	0.04	0.04	0.04	40,040		11,678	199.23	169	11,847
	12:00	207.13	82052	0.31	1.30	1.61	1.30	0.50	0.10	0.10	0.10	0.10	0.10	0.10	0.10	45,020		6,673	199.23		6,673
8/12/2010	08:00	207.12	81766	0.31	1.30	1.61	1.30	0.50	0.10	0.10	0.10	0.10	0.10	0.10	0.10	45,020		37,517	199.46	156	37,673
	15:00	207.15	82560	0.31	1.30	1.61	1.30	0.56	0.18	0.18	0.18	0.18	0.18	0.18	0.18	50,030		13,131	199.46		13,131
	06:00	207.15	82560	0.31	1.30	1.61	1.30	0.62	0.26	0.26	0.26	0.26	0.26	0.26	0.26	55,040		31,269	199.70		31,269
9/12/2010	08:00	207.15	82624	0.31	1.30	1.61	1.30	0.62	0.26	0.26	0.26	0.26	0.26	0.26	0.26	55,040		4,587	199.88	158	4,745
	15:00	207.15	82624	0.31	1.30	1.61	1.30	0.62	0.35	0.35	0.35	0.35	0.35	0.35	0.35	60,100		16,053	199.88		16,053
10/12/2010	08:00	207.13	82052	0.31	1.30	1.61	1.30	0.62	0.35	0.35	0.35	0.35	0.35	0.35	0.35	60,100		42,571	200.24	62	42,633
11/12/2010	08:00	207.06	80051	0.31	1.30	1.61	1.30	0.62	0.26	0.26	0.26	0.26	0.26	0.26	0.26	55,040		60,100	200.27	0	60,100
	12;00	207.05	79719	0.31	1.30	1.61	1.30	0.56	0.18	0.18	0.18	0.18	0.18	0.18	0.18	50,030		9,173	199.89	0	9,173
	16:00	207.06	79999	0.31	1.30	1.61	1.30	0.50	0.10	0.10	0.10	0.10	0.10	0.10	0.10	45,020		8,338	199.68	0	8,338
	20:00	207.09	80846	0.31	1.30	1.61	1.30	0.31	0.04	0.04	0.04	0.04	0.04	0.04	0.04	40,040		7,503	199.47	0	7,503
12/12/2010	08:00	207.16	82910	0.31	1.30	1.61	1.30	0.13	0.04	0.04	0.04	0.04	0.04	0.04	0.04	40,040		20,020	199.20	0	45,034
	16:00	207.12	81700	0.31	1.25	1.34	1.25	0.31								35,040		13,347	199.20	0	13,347
13/12/2010	08:00	207.09	80908	0.30	0.80	0.93	0.80	0.30								25,030		23,360	198.97	0	36,707
14/12/2010	08:00	207.19	83768	0.31	0.96	1.25	0.96	0.31								30,040		25,030	198.75	487	30,527
15/12/2010	08:00	207.08	80622	0.31	0.96	1.25	0.96	0.31								30,040		30,040	198.67	900	30,940
16/12/2010	08:00	207.22	84626	0.31	1.25	1.34	1.25	0.31								35,040		35,040	198.67		35,040
	10:00	207.23	84891	0.31	1.30	1.61	1.30	0.56	0.40	0.40	0.40	0.40	0.40	0.40	0.40	40,040		2,920	198.75		2,920
ST. GEORGE IRRIGATION AREA																					
BEARDMORE DAM DAILY LOG SHEET																					
		STORAGE	STORAGE													GATE	RIVER		TAILWATER	IRRIGATION	TOTAL

EMERGENCY EVENT REPORT – BEARDMORE DAM – 16th November 2010 to 3rd February 2011

DATE	TIME	LEVEL	VOLUME	CREST GATE OPERATION												RELEASE	OUTLET	RIVER	R.L.	OUTLET	OUTFLOW
		(M)	(ML)	1	2	3	4	5	6	7	8	9	10	11	12	(ML)	SETTING	RELEASE	(M)	(ML)	(ML)
	01:00	207.21	84303	0.31	1.30	1.61	1.30	0.50	0.10	0.10	0.10	0.10	0.10	0.10	0.10	45,020		5,004	199.25		5,004
	04:00	207.18	83428	0.31	1.30	1.61	1.30	0.56	0.18	0.18	0.18	0.18	0.18	0.18	0.18	50,030		5,627	199.45		5,627
	21:00	207.19	83719	0.31	1.30	1.61	1.30	0.62	0.26	0.26	0.26	0.26	0.26	0.26	0.26	55,040		8,338	199.85		8,338
17/12/2010	08:00	207.00	78335	0.31	1.30	1.61	1.30	0.62	0.26	0.26	0.26	0.26	0.26	0.26	0.26	55,040		27,519	199.88	815	50,223
	09:00	207.00	78335	0.31	1.30	1.61	1.30	0.56	0.18	0.18	0.18	0.18	0.18	0.18	0.18	50,030		2,293	199.88		
	18:00	207.00	78335	0.31	1.30	1.61	1.30	0.50	0.10	0.10	0.10	0.10	0.10	0.10	0.10	45,020		18,757	199.65		
18/12/2010	08:00	207.11	81480	0.31	1.30	1.61	1.30	0.50	0.10	0.10	0.10	0.10	0.10	0.10	0.10	45,020		26,262	199.45	578	47,312
	01:00	207.01	78609	0.31	1.30	1.61	1.30	0.31	0.04	0.04	0.04	0.04	0.04	0.04	0.04	40,040		9,379	199.45		
19/12/2010	08:00	207.05	79765	0.31	1.25	1.34	1.25	0.31								35,040		31,698	199.18	955	42,032
	18:00	207.05	79791	0.31	0.96	1.25	0.96	0.31								30,040		14,600	198.80		
20/12/2010	08:00	207.09	80908	0.31	0.96	1.25	0.96	0.31								30,040		17,523	198.70	1212	33,335
	11:00	207.11	81415	0.31	1.09	1.25	1.09	0.31								32,000		3,754	198.70		
	16:00	207.12	81700	0.31	1.25	1.34	1.25	0.31								35,040		6,667	198.80		
21/12/2010	08:00	207.10	81130	0.13	1.25	1.34	1.25	1.31								35,040		33,781	198.97	1169	34,950
22/12/2010	08:00	207.12	81766	0.13	1.25	1.34	1.25	1.31								35,040		35,040	198.98	1175	36,215
	13:00	207.15	82560	0.31	1.30	1.61	1.30	0.31	0.04	0.04	0.04	0.04	0.04	0.04	0.04	40,040		7,300	198.98		
	16:00	207.15	82560	0.31	1.30	1.61	1.30	0.50	0.10	0.10	0.10	0.10	0.10	0.10	0.10	45,020		5,005	199.11		
	20:00	207.15	82560	0.31	1.30	1.61	1.30	0.56	0.18	0.18	0.18	0.18	0.18	0.18	0.18	50,030		11,255	199.45		
23/12/2010	08:00	207.15	82560	0.31	1.30	1.61	1.30	0.56	0.18	0.18	0.18	0.18	0.18	0.18	0.18	50,030		48,575	199.68	596	49,171
	10:00	207.15	82560	0.31	1.30	1.61	1.30	0.62	0.26	0.26	0.26	0.26	0.26	0.26	0.26	55,040		4,169	199.72		
	17:00	207.14	82273	0.31	1.30	1.61	1.30	0.62	0.35	0.35	0.35	0.35	0.35	0.35	0.35	60,100		16,053	199.89		
	07:00	207.17	83138	0.31	1.59	1.70	1.59	0.63	0.35	0.35	0.35	0.35	0.35	0.35	0.35	65,020		35,058	200.28		
24/12/2010	08:00	207.17	83138	0.31	1.59	1.70	1.59	0.63	0.35	0.35	0.35	0.35	0.35	0.35	0.35	65,020		57,990	200.28	614	58,604
	10:00	207.17	83138	0.50	1.59	1.70	1.59	0.79	0.39	0.39	0.39	0.39	0.39	0.39	0.39	70,010		5,418	200.45		
	17:00	207.15	82560	0.63	1.73	1.80	1.73	0.96	0.39	0.39	0.39	0.39	0.39	0.39	0.39	75,020		20,420	200.70		
25/12/2010	08:00	207.10	81194	0.63	1.73	1.80	1.73	0.96	0.39	0.39	0.39	0.39	0.39	0.39	0.39	75,020		72,723	200.89	206	72,929
26/12/2010	08:00	207.06	80051	0.50	1.59	1.70	1.59	0.79	0.39	0.39	0.39	0.39	0.39	0.39	0.39	70,010		75,020	200.89	207	75,227
	10:00	207.05	79719	0.31	1.59	1.70	1.59	0.63	0.35	0.35	0.35	0.35	0.35	0.35	0.35	65,020		5,834	200.79		
	21:00	207.07	80281	0.31	1.30	1.610.30	0.62	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35	60,100		29,800	200.47		
27/12/2010	08:00	207.00	78335	0.31	1.30	1.61	1.30	0.62	0.26	0.26	0.26	0.26	0.26	0.26	0.26	55,040		63,180	200.23		63,180
	09:00	207.00	78335	0.31	1.30	1.61	1.30	0.56	0.18	0.18	0.18	0.18	0.18	0.18	0.18	50,030		2,293	200.08		
28/12/2010	08:00	207.02	78907	0.31	1.30	1.61	1.30	0.56	0.18	0.18	0.18	0.18	0.18	0.18	0.18	50,030		50,238	199.68		50,238
29/12/2010	08:00	207.06	80051	0.31	1.30	1.61	1.30	0.56	0.18	0.18	0.18	0.18	0.18	0.18	0.18	50,030		50,030	199.68		50,030
	12:00	207.13	82052	0.31	1.30	1.61	1.30	0.62	0.26	0.26	0.26	0.26	0.26	0.26	0.26	55,040		8,338	199.68		
	17:00	207.32	87773	0.31	1.30	1.61	1.30	0.62	0.35	0.35	0.35	0.35	0.35	0.35	0.35	60,100		11,467	199.68		
	19:00	207.33	87932	0.31	1.59	1.70	1.59	0.63	0.35	0.35	0.35	0.35	0.35	0.35	0.35	65,020		5,008	200.18		
	21:00	207.14	82252	0.50	1.59	1.70	1.59	0.79	0.39	0.39	0.39	0.39	0.39	0.39	0.39	70,010		5,418	200.50		
30/12/2010	01:00	207.29	86628	0.63	1.73	1.80	1.73	0.96	0.39	0.39	0.39	0.39	0.39	0.39	0.39	75,020		11,668	200.68		
	03:00	207.27	86151	0.88	1.86	1.98	1.86	0.96	0.39	0.39	0.39	0.39	0.39	0.39	0.39	80,020		6,252	200.85		
	06:00	207.25	85455	1.00	2.00	2.26	2.00	1.00	0.39	0.39	0.39	0.39	0.39	0.39	0.39	85,040		10,003	201.05		
	07:00	207.24	85198	1.00	2.07	2.36	2.07	1.00	0.45	0.45	0.45	0.45	0.45	0.45	0.45	90,010		3,543	201.06		
	08:00	207.18	83482	1.00	2.07	2.37	2.07	1.00	0.54	0.54	0.54	0.54	0.54	0.54	0.54	95,060		3,750	201.40	280	65,727
	13:00	207.07	80337	1.00	2.07	2.36	2.07	1.00	0.45	0.45	0.45	0.45	0.45	0.45	0.45	90,010		19,804	201.45		
	22:00	207.15	82624	1.00	2.07	2.37	2.07	1.00	0.63	0.63	0.63	0.63	0.63	0.63	0.63	100,010		33,754	201.50		
31/12/2010	06:00	207.14	82452	1.00	2.21	2.53	2.21	1.28	0.63	0.63	0.63	0.63	0.63	0.63	0.63	105,010		33,337	201.80		
ST. GEORGE IRRIGATION AREA																					
BEARDMORE DAM DAILY LOG SHEET																					
		STORAGE	STORAGE													GATE	RIVER		TAILWATER	IRRIGATION	TOTAL
DATE	TIME	LEVEL	VOLUME	CREST GATE OPERATION												RELEASE	OUTLET	RIVER	R.L.	OUTLET	OUTFLOW

EMERGENCY EVENT REPORT – BEARDMORE DAM – 16th November 2010 to 3rd February 2011

		(M)	(ML)	1	2	3	4	5	6	7	8	9	10	11	12	(ML)	SETTING	RELEASE	(M)	(ML)	(ML)
	08:00	207.13	82052	1.00	2.21	2.53	2.21	1.28	0.63	0.63	0.63	0.63	0.63	0.63	0.63	105,010		8,751	201.98	523	96,168
	09:00	207.14	82195	1.00	2.51	2.71	2.51	1.28	0.63	0.63	0.63	0.63	0.63	0.63	0.63	110,000		4,375	201.98		
	11:00	207.15	82624	1.00	2.51	2.71	2.51	1.30	0.72	0.72	0.72	0.72	0.72	0.72	0.72	115,040		9,167	202.28		
	17:00	207.15	82624	1.00	2.75	2.89	2.75	1.41	0.72	0.72	0.72	0.72	0.72	0.72	0.72	120,040		28,759	202.35		
	19:00	207.15	82624	1.00	2.85	3.00	2.85	1.84	0.72	0.72	0.72	0.72	0.72	0.72	0.72	124,990		10,003	202.46		
	23:00	207.15	82624	1.25	2.95	3.00	2.95	2.13	0.72	0.72	0.72	0.72	0.72	0.72	0.72	130,040		20,831	202.63		
1/01/2011	03:00	207.16	82910	1.25	2.95	3.00	2.95	2.15	0.81	0.81	0.81	0.81	0.81	0.80	0.81	135,030		21,673	202.73		
	08:00	207.16	82910	1.25	3.03	3.30	3.03	2.50	0.81	0.81	0.81	0.81	0.81	0.81	0.81	140,020		28,131	202.82	709	28,840
																		1,044,148		8224	1,052,372
	10:00	207.15	82624	1.25	3.03	3.30	3.03	2.53	0.90	0.90	0.90	0.90	0.90	0.90	0.90	145,060		11,668	202.88		
	16:00	207.15	82624	1.25	3.03	3.30	3.03	2.56	0.99	0.99	0.99	0.99	0.99	0.99	0.99	150,050		36,265	202.95		
	18:00	207.15	82624	1.25	3.39	3.45	3.39	2.56	0.99	0.99	0.99	0.99	0.99	0.99	0.99	155,010		12,504	203.10		
2/01/2011	01:00	207.16	82910	1.25	3.70	3.76	3.70	2.56	0.99	0.99	0.99	0.99	0.99	0.99	0.99	160,020		45,211	203.25		
	03:00	207.15	82624	1.25	3.70	3.75	3.73	2.62	1.08	1.08	1.08	1.08	1.08	1.08	1.08	165,080		13,335	203.39		
	07:00	207.15	82624	1.25	3.70	3.75	3.70	2.66	1.17	1.17	1.17	1.17	1.17	1.17	1.17	170,040		27,513	203.50		
	08:00	207.15	82624	1.25	3.70	3.75	3.70	2.66	1.17	1.17	1.17	1.17	1.17	1.17	1.17	170,040		7,085	203.50	830	
	09:00	207.15	82624	1.25	3.70	3.75	3.70	2.65	1.27	1.27	1.27	1.27	1.27	1.27	1.25	175,010		7,085	203.58		
	10:00	207.14	82338	1.25	3.70	3.75	3.70	2.68	1.38	1.38	1.38	1.38	1.38	1.38	1.25	180,040		7,292	203.66		
	11:00	207.13	82052	1.25	3.70	3.75	3.70	3.15	1.43	1.43	1.43	1.43	1.43	1.43	1.25	185,040		7,502	203.77		
	20:00	207.13	82052	1.25	3.70	3.75	3.70	3.19	1.54	1.54	1.54	1.54	1.54	1.54	1.25	190,020		69,390	204.13		
	21:00	207.13	82052	1.25	3.70	3.75	3.70	3.23	1.65	1.65	1.65	1.65	1.65	1.65	1.25	195,000		7,918	204.12		
3/01/2011	03:00	207.14	82338	1.25	3.70	3.75	3.70	3.23	1.77	1.77	1.77	1.77	1.77	1.77	1.25	200,040		48,750	204.15		
	05:00	207.14	82338	1.25	3.70	3.75	3.70	3.22	1.89	1.89	1.89	1.89	1.89	1.89	1.25	205,030		16,670	204.28		
	08:00	207.10	81194	1.25	3.70	3.75	3.70	3.22	1.89	1.89	1.89	1.89	1.89	1.89	1.25	205,030		25,629	204.28	840	
	09:00	207.15	82624	1.25	3.70	3.75	3.70	3.24	2.01	2.01	2.01	2.01	2.01	2.01	1.25	210,050		8,543	204.35		
	12:00	207.15	82624	1.25	4.03	4.08	4.03	3.23	2.01	2.01	2.01	2.01	2.01	2.01	1.25	215,020		26,256	204.43		
4/01/2011	02:00	207.13	82052	1.50	4.13	4.13	4.13	3.26	2.01	2.01	2.01	2.01	2.01	2.01	1.50	220,040		125,428	204.57		
	08:00	207.10	81194	1.50	4.13	4.13	4.13	3.26	2.01	2.01	2.01	2.01	2.01	2.01	1.50	220,040		55,010	204.64	992	
	10:30	207.12	81766	1.50	4.33	4.33	4.33	3.66	2.01	2.01	2.01	2.01	2.01	2.01	1.50	225,030		22,921	204.64		
	12:00	207.08	80622	1.50	4.33	4.33	4.33	3.66	2.01	2.01	2.01	2.01	2.01	2.01	1.50	225,030		14,064	204.73		
5/01/2011	04:00	207.10	81194	1.51	4.33	4.33	4.33	3.65	2.13	2.13	2.13	2.13	2.13	2.13	1.51	230,020		150,020	204.75		
	07:30	207.11	81480	1.70	4.33	4.33	4.33	4.10	2.13	2.13	2.13	2.13	2.13	2.13	1.70	235,020		33,544	204.85		
	08:00	207.11	81480	1.70	4.33	4.33	4.33	4.10	2.13	2.13	2.13	2.13	2.13	2.13	1.70	235,020		4,896	204.85		
	10:00	207.11	81480	1.70	4.60	4.60	4.60	4.43	2.13	2.13	2.13	2.13	2.13	2.13	1.70	240,060		19,585	205.02		
	21:00	207.14	82338	1.70	4.95	4.95	4.95	4.51	2.13	2.13	2.13	2.13	2.13	2.13	1.70	245,020		110,027	205.11		
	22:00	207.14	82338	1.70	5.45	5.45	5.45	4.61	2.13	2.13	2.13	2.13	2.13	2.13	1.70	250,000		10,209	205.13		
	23:00	207.14	82338	1.95	5.45	5.45	5.46	5.00	2.13	2.13	2.13	2.13	2.13	2.13	1.95	255,020		10,416	205.15		
6/01/2011	00:00	207.14	82338	1.95	5.45	5.45	5.45	5.05	2.25	2.25	2.25	2.25	2.25	2.25	1.95	260,010		10,625	205.21		
	01:00	207.13	82052	1.95	5.45	5.45	5.45	5.45	2.40	2.40	2.40	2.40	2.40	2.40	2.10	268,270		10,833	205.23		
	04:00	207.12	81766	2.20	5.45	5.45	5.45	5.45	2.55	2.55	2.55	2.55	2.55	2.55	2.25	276,730		33,533	205.33		
	08:00	207.08	80622	2.20	5.45	5.45	5.45	5.45	2.55	2.55	2.55	2.55	2.55	2.55	2.25	276,730		46,121	205.33		
	09:00	207.09	80908	2.37	5.45	5.45	5.45	5.45	2.67	2.67	2.67	2.67	2.67	2.67	2.37	282,800		11,530	205.44		
	11:30	207.11	81480	2.45	5.45	5.45	5.45	5.45	2.80	2.80	2.80	2.80	2.80	2.80	2.50	289,360		29,458	205.46		
	15:00	207.10	81194	2.57	5.45	5.45	5.45	5.45	2.92	2.92	2.92	2.92	2.92	2.92	2.62	295,500		42,198	205.55		
	21:00	207.14	82338	2.70	5.45	5.45	5.45	5.45	3.05	3.05	3.05	3.05	3.05	3.05	2.75	301,570		73,875	205.67		
ST. GEORGE IRRIGATION AREA																					
BEARDMORE DAM DAILY LOG SHEET																					
		STORAGE	STORAGE													GATE	RIVER		TAILWATER	IRRIGATION	TOTAL
DATE	TIME	LEVEL	VOLUME	CREST GATE OPERATION												RELEASE	OUTLET	RIVER	R.L.	OUTLET	OUTFLOW

EMERGENCY EVENT REPORT – BEARDMORE DAM – 16th November 2010 to 3rd February 2011

		(M)	(ML)	1	2	3	4	5	6	7	8	9	10	11	12	(ML)	SETTING	RELEASE	(M)	(ML)	(ML)
	22:00	207.14	82338	2.82	5.45	5.45	5.45	5.45	3.17	3.17	3.17	3.17	3.17	3.17	2.87	307,200		12,565	205.71		
7/01/2011	01:00	207.13	82052	2.95	5.45	5.45	5.45	5.45	3.30	3.30	3.30	3.30	3.30	3.30	3.00	313,260		38,400	205.75		
	02:00	207.13	82052	3.10	5.45	5.45	5.45	5.45	3.42	3.42	3.42	3.42	3.42	3.42	3.12	318,750		13,052	205.81		
	03:00	207.12	81766	3.25	5.45	5.45	5.45	5.45	3.55	3.55	3.55	3.55	3.55	3.55	3.25	324,760		13,281	205.85		
	07:00	207.12	81766	3.37	5.45	5.45	5.45	5.45	3.67	3.67	3.67	3.67	3.67	3.67	3.37	329,900		54,126	205.90		
	08:00	207.11	81480	3.50	5.45	5.45	5.45	5.45	3.80	3.80	3.80	3.80	3.80	3.80	3.50	335,460		13,745	205.90		
	11:00	207.12	81766	3.62	5.45	5.45	5.45	5.45	3.92	3.92	3.92	3.92	3.92	3.92	3.62			41,933	205.95		
	13:30	207.12	81766	3.75	5.45	5.45	5.45	5.45	4.05	4.05	4.05	4.05	4.05	4.05	3.75				206.00		
	15:00	207.11	81480	3.87	5.45	5.45	5.45	5.45	4.17	4.17	4.17	4.17	4.17	4.17	3.87				206.04		
	23:00	207.13	82052	4.00	5.45	5.45	5.45	5.45	4.30	4.30	4.30	4.30	4.30	4.30	4.00				206.10		
8/01/2011	03:00	207.14	82338	4.12	5.45	5.45	5.45	5.45	4.42	4.42	4.42	4.42	4.42	4.42	4.12				206.11		
	04:00	207.13	82052	4.25	5.45	5.45	5.45	5.45	4.55	4.55	4.55	4.55	4.55	4.55	4.25				206.15		
	08:00	207.12	81766	4.37	5.45	5.45	5.45	5.45	4.67	4.67	4.67	4.67	4.67	4.67	4.37				206.18		
	10:00	207.12	81766	4.50	5.45	5.45	5.45	5.45	4.80	4.80	4.80	4.80	4.80	4.80	4.50				206.21		
	17:00	207.09	80908	4.50	5.45	5.45	5.45	5.45	4.80	4.80	4.80	4.80	4.80	4.80	4.50				206.24		
9/01/2011	00:00	207.09	80908	4.50	5.45	5.45	5.45	5.45	4.80	4.80	4.80	4.80	4.80	4.80	4.50				206.24		
	03:00	207.10	81194	4.50	5.45	5.45	5.45	5.45	4.80	4.80	4.80	4.80	4.80	4.80	4.50				206.25		
	06:00	207.11	81480	4.50	5.45	5.45	5.45	5.45	4.80	4.80	4.80	4.80	4.80	4.80	4.50				206.25		
	07:00	207.11	81480	4.50	5.45	5.45	5.45	5.45	4.80	4.80	4.80	4.80	4.80	4.80	4.50				206.25		
	08:00	207.11	81480	4.50	5.45	5.45	5.45	5.45	4.80	4.80	4.80	4.80	4.80	4.80	4.50				206.25		
	09:00	207.10	81194	4.50	5.45	5.45	5.45	5.45	4.80	4.80	4.80	4.80	4.80	4.80	4.50				206.25		
	12:00	207.10	81194	4.50	5.45	5.45	5.45	5.45	4.80	4.80	4.80	4.80	4.80	4.80	4.50				206.25		
	17:00	207.09	80908	4.50	5.45	5.45	5.45	5.45	4.80	4.80	4.80	4.80	4.80	4.80	4.50				206.23		
10/01/2011	00:00	207.07	80337	4.50	5.45	5.45	5.45	5.45	4.80	4.80	4.80	4.80	4.80	4.80	4.50				206.24		
	03:00	207.06	80051	4.50	5.45	5.45	5.45	5.45	4.80	4.80	4.80	4.80	4.80	4.80	4.50				206.24		
	06:00	207.03	79193	4.50	5.45	5.45	5.45	5.45	4.80	4.80	4.80	4.80	4.80	4.80	4.50				206.22		
	07:00	207.03	79193	4.50	5.45	5.45	5.45	5.45	4.80	4.80	4.80	4.80	4.80	4.80	4.50				206.21		
	08:00	207.05	79765	4.37	5.45	5.45	5.45	5.45	4.67	4.67	4.67	4.67	4.67	4.67	4.37				206.16		
	09:00	207.05	79765	4.25	5.45	5.45	5.45	5.45	4.55	4.55	4.55	4.55	4.55	4.55	4.25				206.14		
	21:00	207.03	79193	4.12	5.45	5.45	5.45	5.45	4.42	4.42	4.42	4.42	4.42	4.42	4.12				207.06		
	23:00	207.03	79193	4.00	5.45	5.45	5.45	5.45	4.30	4.30	4.30	4.30	4.30	4.30	4.00				206.05		
11/01/2011	04:00	207.03	79193	3.87	5.45	5.45	5.45	5.45	4.17	4.17	4.17	4.17	4.17	4.17	3.87				206.02		
	07:00	207.03	79193	3.75	5.45	5.45	5.45	5.45	4.05	4.05	4.05	4.05	4.05	4.05	3.75				205.97		
	08:00	207.04	79479	3.75	5.45	5.45	5.45	5.45	4.05	4.05	4.05	4.05	4.05	4.05	3.75				205.94		
	10:00	207.03	79193	3.62	5.45	5.45	5.45	5.45	3.92	3.92	3.92	3.92	3.92	3.92	3.62				205.93		
	12:00	207.03	79193	3.50	5.45	5.45	5.45	5.45	3.80	3.80	3.80	3.80	3.80	3.80	3.50	335,460			205.92		
	14:00	207.03	79193	3.37	5.45	5.45	5.45	5.45	3.67	3.67	3.67	3.67	3.67	3.67	3.37	329,900		27,955	205.91		
	16:00	207.03	79193	3.25	5.45	5.45	5.45	5.45	3.55	3.55	3.55	3.55	3.55	3.55	3.25	324,760		27,492	205.87		
	17:30	207.03	79193	3.10	5.45	5.45	5.45	5.45	3.42	3.42	3.42	3.42	3.42	3.42	3.12	318,750		20,298	205.84		
	19:00	207.04	79479	2.95	5.45	5.45	5.45	5.45	3.30	3.30	3.30	3.30	3.30	3.30	3.00	313,260		19,922	205.80		
12/01/2011	01:00	207.04	79479	2.82	5.45	5.45	5.45	5.45	3.17	3.17	3.17	3.17	3.17	3.17	2.87	307,200		78,315	205.75		
	05:00	207.03	79193	2.70	5.45	5.45	5.45	5.45	3.05	3.05	3.05	3.05	3.05	3.05	2.75	301,570		51,200	205.65		
	08:00	207.04	79479	2.57	5.45	5.45	5.45	5.45	2.92	2.92	2.92	2.92	2.92	2.92	2.62	295,500		37,696	205.60		
	15:00	207.03	79193	2.45	5.45	5.45	5.45	5.45	2.80	2.80	2.80	2.80	2.80	2.80	2.50	289,360		86,188	205.51		
	16:00	207.03	79193	2.37	5.45	5.45	5.45	5.45	2.67	2.67	2.67	2.67	2.67	2.67	2.37	282,800		12,057	205.46		
ST. GEORGE IRRIGATION AREA																					
BEARDMORE DAM DAILY LOG SHEET																					
		STORAGE	STORAGE													GATE	RIVER		TAILWATER	IRRIGATION	TOTAL
DATE	TIME	LEVEL	VOLUME	CREST GATE OPERATION												RELEASE	OUTLET	RIVER	R.L.	OUTLET	OUTFLOW
		(M)	(ML)	1	2	3	4	5	6	7	8	9	10	11	12	(ML)	SETTING	RELEASE	(M)	(ML)	(ML)

	18:00	207.03	79193	2.20	5.45	5.45	5.45	5.45	2.55	2.55	2.55	2.55	2.55	2.55	2.25	276,730		23,567	205.41		
	23:30	207.04	79479	2.07	5.45	5.45	5.45	5.45	2.47	2.47	2.47	2.47	2.47	2.47	2.17	272,330		63,417	205.34		
13/01/2011	04:00	207.04	79479	1.95	5.45	5.45	5.45	5.05	2.40	2.40	2.40	2.40	2.40	2.40	2.10	268,270		51,062	205.27		
	06:00	207.03	79193	1.95	5.45	5.45	5.46	5.06	2.25	2.25	2.25	2.25	2.25	2.25	1.95	260,010		22,356	205.22		
	10:00	207.06	80051	1.70	4.60	4.60	4.60	4.43	2.13	2.13	2.13	2.13	2.13	2.13	1.70	240,060		43,335	205.05		
	19:00	207.03	79193	1.70	4.33	4.33	4.33	4.10	2.13	2.13	2.13	2.13	2.13	2.13	1.70	235,020		90,023	205.02		
14/01/2011	05:00	207.04	79479	1.51	4.33	4.33	4.33	3.65	2.13	2.13	2.13	2.13	2.13	2.13	1.51	230,020		97,925	204.83		
	08:00	207.06	80051	1.51	4.33	4.33	4.33	3.65	2.13	2.13	2.13	2.13	2.13	2.13	1.51	230,020		28,753	204.73		
	10:00	207.04	79479	1.50	4.33	4.33	4.33	3.65	2.01	2.01	2.01	2.01	2.01	2.01	1.51	225,030		19,168	204.70		
	11:00	207.04	79479	1.50	4.13	4.13	4.13	3.26	2.01	2.01	2.01	2.01	2.01	2.01	1.50	220,040		9,376			
	18:00	207.04	79479	1.25	4.03	4.03	4.03	3.23	2.01	2.01	2.01	2.01	2.01	2.01	1.25	215,020		64,178	204.50		
	21:00	207.04	79479	1.25	3.70	3.75	3.70	3.24	2.01	2.01	2.01	2.01	2.01	2.01	1.25	210,050		26,878	204.43		
15/01/2011	05:00	207.04	79479	1.25	3.70	3.75	3.70	3.22	1.89	1.89	1.89	1.89	1.89	1.89	1.25	205,030		70,017	204.34		
	09:00	207.03	79193	1.25	3.70	3.75	3.70	3.23	1.77	1.77	1.77	1.77	1.77	1.77	1.25	200,040		34,172	204.23		
	12:00	207.00	78335	1.25	3.70	3.75	3.70	3.23	1.65	1.65	1.65	1.65	1.65	1.65	1.25	195,000		25,005	204.15		
	17:00	207.01	78621	1.25	3.70	3.75	3.70	3.19	1.54	1.54	1.54	1.54	1.54	1.54	1.25	190,020		40,625	204.02		
	18:00	207.01	78621	1.25	3.70	3.75	3.70	3.15	1.43	1.43	1.43	1.43	1.43	1.43	1.25	185,040		7,918	204.05		
	20:00	207.03	79193	1.25	3.70	3.75	3.70	2.68	1.38	1.38	1.38	1.38	1.38	1.38	1.25	180,040		15,420	203.85		
16/01/2011	02:00	207.04	79479	1.25	3.70	3.75	3.70	2.66	1.17	1.17	1.17	1.17	1.17	1.17	1.25	175,010		45,010	203.68		
	10:00	207.04	79479	1.25	3.70	3.75	3.70	2.65	1.17	1.17	1.17	1.17	1.17	1.17	1.17	170,040		58,337	203.78		
	15:00	207.03	79193	1.25	3.70	3.75	3.70	2.62	1.08	1.08	1.08	1.08	1.08	1.08	1.08	165,080		35,425	203.47		
	17:00	207.01	78621	1.25	3.70	3.76	3.70	2.56	0.99	0.99	0.99	0.99	0.99	0.99	0.99	160,020		13,757	203.33		
	22:00	207.01	78621	1.25	3.39	3.45	3.39	2.56	0.99	0.99	0.99	0.99	0.99	0.99	0.99	155,010		33,338	203.26		
17/01/2011	07:00	207.02	78907	1.25	3.03	3.30	3.03	2.56	0.99	0.99	0.99	0.99	0.99	0.99	0.99	150,050		58,129	203.08		
	08:00	207.05	79765	1.25	3.03	3.30	3.03	2.56	0.99	0.99	0.99	0.99	0.99	0.99	0.99	150,050		6,252	203.07		
	15:00	207.03	79193	1.25	3.03	3.30	3.03	2.53.9	0.90	0.90	0.90	0.90	0.90	0.90	0.90	145,060		43,765	202.98		
	07:00	207.02	78907	1.25	3.03	3.30	3.03	2.50	0.81	0.81	0.81	0.81	0.81	0.81	0.81	140,020		96,707	202.95		
18/01/2011	08:00	207.05	79765	1.25	3.03	3.30	3.03	2.50	0.81	0.81	0.81	0.81	0.81	0.81	0.81	140,020		5,834	202.93		
	19:00	207.11	81480	1.25	3.03	3.30	3.03	2.53.9	0.90	0.90	0.90	0.90	0.90	0.90	0.90	145,060		64,176	202.90		
	23:00	207.12	81766	1.25	3.03	3.30	3.03	2.56	0.99	0.99	0.99	0.99	0.99	0.99	0.99	150,050		24,177	203.05		
	06:00	207.13	82052	1.25	3.39	3.45	3.39	2.56	0.99	0.99	0.99	0.99	0.99	0.99	0.99	155,010		43,765	203.05		
19/01/2011	08:00	207.11	81480	1.25	3.39	3.45	3.39	2.56	0.99	0.99	0.99	0.99	0.99	0.99	0.99	155,010		12,918	203.07		
	10:00	207.13	82052	1.25	3.70	3.76	3.70	2.56	0.99	0.99	0.99	0.99	0.99	0.99	0.99	160,020		12,918	203.06		
	17:00	204.14	82338	1.25	3.70	3.75	3.70	2.62	1.08	1.08	1.08	1.08	1.08	1.08	1.08	165,080		46,673	203.28		
	19:00	207.15	82624	1.25	3.70	3.75	3.70	2.65	1.17	1.17	1.17	1.17	1.17	1.17	1.17	170,040		13,757	203.38		
	21:00	207.15	82624	1.25	3.70	3.75	3.70	2.66	1.17	1.17	1.17	1.17	1.17	1.17	1.25	175,010		14,170	203.50		
	22:00	207.14	82338	1.25	3.70	3.75	3.70	2.68	1.38	1.38	1.38	1.38	1.38	1.38	1.25	180,040		7,292	203.56		
	01:00	207.12	81766	1.25	3.70	3.75	3.70	3.15	1.43	1.43	1.43	1.43	1.43	1.43	1.25	185,040		22,505	203.62		
20/01/2011	08:00	207.11	81480	1.25	3.70	3.75	3.70	3.15	1.43	1.43	1.43	1.43	1.43	1.43	1.25	185,040		53,970	203.75		
	09:00	207.13	82052	1.25	3.70	3.75	3.70	3.19	1.54	1.54	1.54	1.54	1.54	1.54	1.25	190,020		7,710	203.77		
	10:00	207.14	82338	1.25	3.70	3.75	3.70	3.23	1.65	1.65	1.65	1.65	1.65	1.65	1.25	195,000		7,918	203.94		
	11:00	207.14	82338	1.25	3.70	3.75	3.70	3.23	1.77	1.77	1.77	1.77	1.77	1.77	1.25	200,040		8,125	203.99		
	17:00	207.15	82624	1.25	3.70	3.75	3.70	3.22	1.89	1.89	1.89	1.89	1.89	1.89	1.25	205,030		50,010	204.17		
	21:00	207.15	82624	1.25	3.70	3.75	3.70	3.24	2.01	2.01	2.01	2.01	2.01	2.01	1.25	210,050		34,172	204.27		
	22:00	207.14	82338	1.25	4.03	4.03	4.03	3.23	2.01	2.01	2.01	2.01	2.01	2.01	1.25	215,020		8,752	204.35		
ST. GEORGE IRRIGATION AREA																					
BEARDMORE DAM DAILY LOG SHEET																					
		STORAGE	STORAGE													GATE	RIVER		TAILWATER	IRRIGATION	TOTAL
DATE	TIME	LEVEL	VOLUME	CREST GATE OPERATION												RELEASE	OUTLET	RIVER	R.L.	OUTLET	OUTFLOW
		(M)	(ML)	1	2	3	4	5	6	7	8	9	10	11	12	(ML)	SETTING	RELEASE	(M)	(ML)	(ML)
	01:00	207.12	81766	1.50	4.13	4.13	4.13	3.26	2.01	2.01	2.01	2.01	2.01	2.01	1.50	220,040		26,878	204.37		

	06:00	207.12	81766	1.50	4.33	4.33	4.33	3.65	2.01	2.01	2.01	2.01	2.01	2.01	1.51	225,030		45,842	204.60		
21/01/2011	08:00	207.07	80337	1.50	4.33	4.33	4.33	3.65	2.01	2.01	2.01	2.01	2.01	2.01	1.51	225,030		18,753	204.60		
	14:00	207.12	81766	1.51	4.33	4.33	4.33	3.65	2.13	2.13	2.13	2.13	2.13	2.13	1.51	230,020		56,258	204.63		
	17:00	207.12	81766	1.70	4.33	4.33	4.33	4.10	2.13	2.13	2.13	2.13	2.13	2.13	1.70	235,020		28,753	204.68		
	01:00	207.12	81766	1.70	4.60	4.60	4.60	4.43	2.13	2.13	2.13	2.13	2.13	2.13	1.70	240,060		68,548	204.78		
22/01/2011	08:00	207.10	81194	1.70	4.60	4.60	4.60	4.43	2.13	2.13	2.13	2.13	2.13	2.13	1.70	240,060		70,018	204.89		
	12:00	207.12	81766	1.70	4.95	4.95	4.95	4.61	2.13	2.13	2.13	2.13	2.13	2.13	1.70	245,020		40,010	204.93		
	02:00	207.14	82338	1.70	5.45	5.45	5.45	4.61	2.13	2.13	2.13	2.13	2.13	2.13	1.70	250,000		142,928	205.00		
	03:00	207.15	82624	1.95	5.45	5.45	5.46	5.00	2.13	2.13	2.13	2.13	2.13	2.13	1.95	255,020		10,417	205.03		
23/01/2011	08:00	207.14	82338	1.95	5.45	5.45	5.46	5.06	2.25	2.25	2.25	2.25	2.25	2.25	1.95	260,010		53,129	205.07		
	09:00	207.14	82338	1.95	5.45	5.45	5.45	5.05	2.40	2.40	2.40	2.40	2.40	2.40	2.10	268,270		10,834	205.12		
	06:00	207.02	78907	1.95	5.45	5.45	5.45	5.05	2.40	2.40	2.40	2.25	2.25	2.25	1.95	264,230		234,736	205.07		
24/01/2011	08:00	207.02	78907	1.95	5.45	5.45	5.46	5.06	2.25	2.25	2.25	2.25	2.25	2.25	1.95	260,010		22,019	205.03		
	10:00	207.02	78907	1.95	5.45	5.45	5.46	5.00	2.13	2.13	2.13	2.13	2.13	2.13	1.95	255,020		21,668	205.03		
	06:00	207.02	78907	1.70	5.45	5.45	5.45	4.61	2.13	2.13	2.13	2.13	2.13	2.13	1.70	250,000		212,517	204.93		
	07:00	207.02	78907	1.70	4.95	4.95	4.95	4.61	2.13	2.13	2.13	2.13	2.13	2.13	1.70	245,020		10,417	204.90	Gate #5 just in the water	
25.01.2011	08:00	207.01	78621	1.70	4.60	4.60	4.60	4.43	2.13	2.13	2.13	2.13	2.13	2.13	1.70	240,060		10,209	204.90	Gates#2,3,4, just in the water.	
	09:00	207.02	78907	1.70	4.33	4.33	4.33	4.10	2.13	2.13	2.13	2.13	2.13	2.13	1.70	235,020		10,003	204.88		
	01:00	207.08	80622	1.51	4.33	4.33	4.33	3.65	2.13	2.13	2.13	2.13	2.13	2.13	1.51	230,020		156,680	204.74		
	04:00	207.07	80337	1.50	4.33	4.33	4.33	3.65	2.01	2.01	2.01	2.01	2.01	2.01	1.51	225,030		28,753	204.66		
26/01/2011	08:00	207.08	80622	1.50	4.33	4.33	4.33	3.65	2.01	2.01	2.01	2.01	2.01	2.01	1.51	225,030		37,505	204.60		
	13:00	207.03	79193	1.50	4.13	4.13	4.13	3.26	2.01	2.01	2.01	2.01	2.01	2.01	1.50	220,040		46,881	204.58		
	22:00	207.03	79193	1.25	4.03	4.08	4.03	3.23	2.01	2.01	2.01	2.01	2.01	2.01	1.25	215,020		82,515	204.41		
	23:00	207.04	79479	1.25	3.70	3.75	3.70	3.24	2.01	2.01	2.01	2.01	2.01	2.01	1.25	210,050		8,959	204.36		
27/01/2011	08:00	207.08	80622	1.25	3.70	3.75	3.70	3.24	2.01	2.01	2.01	2.01	2.01	2.01	1.25	210,050		78,768	204.27		
	11:00	207.05	79765	1.25	3.70	3.75	3.70	3.22	1.89	1.89	1.89	1.89	1.89	1.89	1.25	205,030		26,256	204.21		
	14:00	207.05	79765	1.25	3.70	3.75	3.70	3.22	1.77	1.77	1.77	1.77	1.77	1.77	1.25	200,040		25,628	204.12		
	15:00	207.05	79765	1.25	3.70	3.75	3.70	3.22	1.65	1.65	1.65	1.65	1.65	1.65	1.25	195,000		8,333	204.05		
	02:00	207.04	79479	1.25	3.70	3.75	3.70	3.19	1.45	1.45	1.45	1.45	1.45	1.45	1.25	190,020		89,375	203.95		
	03:00	207.03	79193	1.25	3.70	3.75	3.70	3.15	1.43	1.43	1.43	1.43	1.43	1.43	1.25	185,040		7,917	203.90		
	04:00	207.04	79479	1.25	3.70	3.75	3.70	2.68	1.38	1.38	1.38	1.38	1.38	1.38	1.25	180,040		7,710	203.80		
28/01/2011	08:00	207.05	79765	1.25	3.70	3.75	3.70	2.68	1.38	1.38	1.38	1.38	1.38	1.38	1.25	180,040		30,006	203.62		
	09:00	207.05	79765	1.25	3.70	3.75	3.70	2.65	1.27	1.27	1.27	1.27	1.27	1.27	1.25	175,010		7,501	203.56		
	12:00	207.08	80622	1.25	3.70	3.75	3.70	2.65	1.27	1.27	1.27	1.27	1.27	1.27	1.25	175,010		21,876	203.55		
	13:00	207.06	80051	1.25	3.70	3.75	3.70	2.65	1.17	1.17	1.17	1.17	1.17	1.17	1.17	170,040		7,293	203.51		
	21:00	207.03	79193	1.25	3.70	3.75	3.70	2.62	1.08	1.08	1.08	1.08	1.08	1.08	1.08	165,080		56,680	203.38		
	23:00	207.04	79479	1.25	3.70	3.75	3.70	2.56	0.99	0.99	0.99	0.99	0.99	0.99	0.99	160,020		13,756	203.26		
	1:00	207.06	80051	1.25	3.99	3.45	3.39	2.56	0.990.99	0.99	0.99	0.99	0.99	0.99	0.99	155,010		13,335	203.22		
29/01/2011	8:00	207.08	80622	1.25	3.39	3.45	3.39	2.56	0.99	0.99	0.99	0.99	0.99	0.99	0.99	155,010		45,211	203.06		
	10:00	207.06	80051	1.25	3.03	3.30	3.03	2.56	0.99	0.99	0.99	0.99	0.99	0.99	0.99	150,050		12,504	203.04		
	13:00	207.06	80051	1.25	3.03	3.30	3.03	2.53	0.90	0.90	0.90	0.90	0.90	0.90	0.90	145,060		18,756	202.97		
	18:00	207.04	79479	1.25	3.03	3.30	3.03	2.50	0.81	0.81	0.81	0.81	0.81	0.81	0.81	140,020		30,221	202.92		
ST. GEORGE IRRIGATION AREA																					
BEARDMORE DAM DAILY LOG SHEET																					
		STORAGE	STORAGE													GATE	RIVER		TAILWATER	IRRIGATION	TOTAL
DATE	TIME	LEVEL	VOLUME	CREST GATE OPERATION												RELEASE	OUTLET	RIVER	R.L.	OUTLET	OUTFLOW
		(M)	(ML)	1	2	3	4	5	6	7	8	9	10	11	12	(ML)	SETTING	RELEASE	(M)	(ML)	(ML)
	21:00	207.04	79479	1.25	2.95	3.00	2.95	2.15	0.81	0.81	0.81	0.81	0.81	0.80	0.81	135,030		17,503	202.80		

EMERGENCY EVENT REPORT – BEARDMORE DAM – 16th November 2010 to 3rd February 2011

	1:00	207.06	80051	1.25	2.95	3.00	2.95	2.13	0.72	0.72	0.72	0.72	0.72	0.72	0.72	130,040		22,505	202.68		
	2:00	207.06	80051	1.00	2.85	3.00	2.85	1.84	0.72	0.72	0.72	0.72	0.72	0.72	0.72	124,990		5,418	202.68		
	4:00	207.07	80337	1.00	2.75	2.89	2.75	1.41	0.72	0.72	0.72	0.72	0.72	0.72	0.72	120,040		5,208	202.45		
30/01/2011	17:00	207.08	80622	1.00	2.51	2.71	2.51	1.28	0.63	0.63	0.63	0.63	0.63	0.63	0.63	110,050		65,022	202.00		
	21:00	207.06	80051	1.00	2.21	2.53	2.21	1.28	0.63	0.63	0.63	0.63	0.63	0.63	0.63	105,010		18,342	201.90		
	22:00	207.07	80337	1.00	2.07	2.37	2.07	1.00	0.63	0.63	0.63	0.63	0.63	0.63	0.63	100,010		4,375	201.83		
	5:00	207.07	80337	1.00	2.07	2.37	2.07	1.00	0.54	0.54	0.54	0.54	0.54	0.54	0.54	95,060		29,170	201.67		
	6:00	207.07	80337	1.00	2.07	2.36	2.07	1.00	0.45	0.45	0.45	0.45	0.45	0.45	0.45	90,010		3,961	201.55		
	7:00	207.07	80337	1.00	2.00	2.26	2.00	1.00	0.39	0.39	0.39	0.39	0.39	0.39	0.39	85,040		3,750	201.40		
31/01/2011	8:00	207.11	81480	1.00	2.00	2.26	2.00	1.00	0.39	0.39	0.39	0.39	0.39	0.39	0.39	85,040		3,543	201.18		
	16:00	207.08	80622	0.88	1.86	1.98	1.86	0.96	0.39	0.39	0.39	0.39	0.39	0.39	0.39	80,020		31,890	201.08		
	17:00	207.06	80051	0.63	1.73	1.80	1.73	0.96	0.39	0.39	0.39	0.39	0.39	0.39	0.39	75,020		3,334	200.87		
	18:00	207.07	80337	0.50	1.59	1.70	1.59	0.79	0.39	0.39	0.39	0.39	0.39	0.39	0.39	70,010		3,126	200.83		
	1:00	207.08	80622	0.31	1.59	1.70	1.59	0.63	0.35	0.35	0.35	0.35	0.35	0.35	0.35	65,020		20,420	200.53		
	2:00	207.09	80908	0.31	1.30	1.610.30	0.62	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35	60,100		2,709	200.40		
1/02/2011	8:00	207.10	81194	0.31	1.30	1.610.30	0.62	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35	60,100		15,025	200.03		
	10:00	207.07	80337	0.31	1.30	1.61	1.30	0.62	0.26	0.26	0.26	0.26	0.26	0.26	0.26	55,040		5,008	199.98		
	12:00	207.06	80051	0.31	1.30	1.61	1.30	0.56	0.18	0.18	0.18	0.18	0.18	0.18	0.18	50,030		4,587	199.93		
	14:00	207.07	80337	0.31	1.30	1.61	1.30	0.50	0.10	0.10	0.10	0.10	0.10	0.10	0.10	45,020		4,169	199.80		
	21:00	207.07	80337	0.31	1.25	1.34	1.25	0.31								35,040		13,130			
2/0/2/2011	8:00	207.05	79765	0.31	0.96	1.25	0.96	0.31								30,030		10,220			
	9:00	207.06	80051	0.30	0.80	0.93	0.80	0.30								25,030		1,201			
	11:00	207.08	80622		0.80	0.92	0.80									20,060		2,085			
3/02/2011	8:00	207.04	79479		0.55	0.77	0.55									15,020		17,552			
																		1,175,671		0	1,175,671

Beardmore Dam Event Report

Emergency Event Recording Sheets

- **Emails**

- ***Emails were sent to respective EEC's as soon as possible after each release raise or decrease of flow made through Beardmore Dam throughout the entire event.***
- ***Emails consisted of the Beardmore Dam Daily Log Sheet and were sent to Karan Quartermaine and William Bennett for forwarding onto respective Managers.***

Please modify to suit Beardmore Dam than email back to the EEC team before using
Once approved this sheet should sent off as the EAP mentions three timews a day

Regards
John

From: Rabbitt, Douglas
Sent: Sunday, 2 January 2011 9:44 AM
To: Quartermaine, Karan; Hargreaves, Graham; Newman, Ronald; Eaton, John
Subject: Template- Coolmunda Dam EAP Flood Operation

Hi Peter,

As mentioned in our discussion by telephone at 1:30pm Sunday Jan 2nd.

You mentioned all the required documentation that is required by the EAP is being carried out on site at the dam in hard copy format. The visual inspection sheet however, could you please fax in until communication is lost (due to the rising water levels)? Once communication is lost the added tab on the spreadsheet will keep us informed but the proper EAP sheet will still be continued to be done and left on-site.

Please confirm by email that this was the conversation we had

Regards
John Eaton
Technical Officer (Civil)
SunWater
Unit 2/7 Foundry Street, Toowoomba
[redacted]

From: Newman, Ronald
Sent: Saturday, 1 January 2011 4:47 PM
To: Bennett, William; Taylor, William; Johnston, Neville; Fitzgerald, Patrick; Waters, Peter
Cc: Hargreaves, Graham; Eaton, John
Subject: Beardmore Dam reporting

Folks
As we are about to go to stage 4 flood operations at beardmore dam, the following reporting is requested
1. Dam activity log (AT LEAST TWICE PER SHIFT OR IF ANY SIGNIFICANT CHANGES OCCUR)
2 .Visual inspection report (THREE TIMES A DAY)
3 Record of communication (DAILY)
4. Log of events (DAILY)

please send the above documents to the EEC via fax or email, as requested regardless of the time of the day as we will be on duty 24 hrs a day

If any major changes occur call the EEC line on [redacted]
The documents have been faxed to the dam, please use them as a master, and copy as required

Thanks
Ron
Graham
and
John

From: Hargreaves, Graham
Sent: Sunday, 2 January 2011 7:59 PM
To: Taylor, William; Waters, Peter; Johnston, Neville; Fitzgerald, Patrick; Bennett, William
Cc: Collett, Peter
Subject: Flood level

If the flood level go's of the chart for the gate openings and the gates are not fully open. Please contact me immediately thank you [redacted]

Graham Hargreaves
Service Manager, Toowoomba Depot
SunWater
2/7 Foundry St, PO Box 1865
Toowoomba Qld 4350
[redacted]

From: Newman, Ronald
Sent: Thursday, 6 January 2011 4:48 PM
To: Swan, Brendan; Mann, Phillip; Mckinlay, Darrell; Coolmunda; Rabbitt, Douglas; Cole, Neville; Bennett, William; Fitzgerald, Patrick; Johnston, Neville; Taylor, William
Subject: EEC

Folks
I will be in the EEC chair for all of tonight up to 8am
All calls to the EEC phone arte diverted to me
Please dont hesitate to call if things change
Have a good night
cheers

Kind regards,

Ron Newman

Technical Services Scheduler

S U N W A T E R - T o o w o o m b a

From: Quartermaine, Karan
Sent: Thursday, 20 January 2011 11:24 AM
To: Taylor, William
Subject: FW: Beardmore GS

Karan Quartermaine
Service Manager
SunWater - St George
[redacted]

From: Fiedler, Peter
Sent: Thursday, 20 January 2011 9:27 AM
To: Quartermaine, Karan
Subject: Beardmore GS

Karan,
the phone at the data logger at Beardmore is not responding. Could someone check that it has power please. The battery is charged using mains power so I guess there's a bit of a chance that it has gone flat. If that's the case there will be no LEDs lit on the modem and the red LED on the logger won't be flashing either.
If it does have power could the modem and logger be rebooted please.

Peter Fiedler
Hydrographer
SunWater
[redacted]

From: Fiedler, Peter
Sent: Thursday, 20 January 2011 10:56 AM
To: Peter Waters **Cc:** Paul Jensen
Subject: Beardmore GS

spoke to Karan and we decided two hourly updates will be enough.
If you think they are need to be more frequently let me know.

Peter Fiedler
Hydrographer
SunWater
[redacted]

From: Waters, Peter
Sent: Tuesday, 18 January 2011 12:01
To: Fiedler, Peter; Jensen, Paul
Subject: GS's Updates

Pete/Paul,

Could we get Surat, Beardmore HW, St George (DS JTW) Weribone & Cashmere included in the latest data summary updates on WIN.

Cheers.

Peter

Beardmore Dam Event Report

Emergency Event Recording Sheets

- **Description of Damage (photos included)**

Beardmore Dam – Damage Report.

Flooding water turbulence has caused extensive major erosion downstream of the right embankment of Beardmore Dam. At the time of correlation of this report Beardmore Dam is still experiencing flow releases and spillway damage cannot be ascertained. Once the Balonne River ceases to flow, Sunwater staff will conduct a more through condition monitoring and damage inspection.

Erosion and undermining of protective rock work - visitor Information lookout (1).

Erosion of earthworks and protective rock work - visitor Information lookout (2).

Erosion of earthworks and protective rock work - visitor Information lookout (3).

Cracking and deterioration of protective rock work - visitor Information lookout (4).

Vertical cracking and deterioration of protective rock work - visitor

Horizontal cracking and deterioration of protective rock work - visitor

Information lookout (5).	Information lookout (6).
Extreme erosion and bank slumping downstream side of causeway, Western approach (1).	Extreme erosion downstream side of causeway, Western approach (2).
Right Embankment erosion, 10 metres below deformation survey marker.	River bank slumping and erosion, sand siltation covering the causeway.
Right Embankment re-profiling with rock protection. (1)	Right Embankment re-profiling with rock protection. (2)

Thuraggi Channel erosion downstream of irrigation outlet works	Left Embankment approach to causeway, gravel road washed away.

Beardmore Dam, Standby Generator Hut was isolated and flooded during the event, Standby Genset removed and relocated to higher ground.

Generator Hut, Genset removed and relocated.	Information lookout and peizometer hut.

Beardmore Dam Event Report

Emergency Event Recording Sheets

- **Left and Right Wingwall Monitoring**

Left and Right Embankment - Wingwall Monitoring.

Wingwall monitoring was implemented on the right and left embankments as part of the daily Beardmore Dam inspections, movement indicator paint lines were painted on both sides. Daily inspections including photographs were captured for the duration of the flood event. **Examples below.**

Right Embankment visual monitoring	Left Embankment visual monitoring

Beardmore Dam Event Report

Emergency Event Recording Sheets

- **Record of Communication sheets**

Nil Record of Communication Sheets was maintained for the period 16.09.2010 to 20.11.2010. Records resumed from 20.11.2010 to 30.12.2010. Nil Record of Communication Sheets for Flood Operations encompassing the period of 31.12.2010 to 03.03.2011, During thisperiod Storage Supervisors/Shift Managers worked autonomously with little or no interaction with the EEC's. Email correspondence, mobile telecommunications and facsimiles were corresponded only when network/email facilities were unavailable. All event record data requirements were entered within the Beardmore Dam Log Book.

EMERGENCY EVENT REPORT - BEARDMORE DAM D...

DAM - EMERGENCY EVENT REPORT
LOG OF EVENTS / ACTIONS

DATE	TIME	EVENT / ACTION DESCRIPTION	RECORDED BY (INITIALS)
20-11-10	17:30	Banjo rang Start flow to 1,200 ML/D at 18:00 HRS	[redacted]
21-11-10	06:30	Banjo rang Increase flow to 3,030 ML/D at 07:00 HRS	
	08:30	Banjo rang. Increase flow to 5,060 ML/D at 09:00 HRS	
	10:30	Banjo rang. Increase flow to 8,040 ML/D at 11:00 HRS	
	18:30	Banjo rang decrease flow to 6,030 ML/D at 19:00 HRS	
22-11-10	07:30	Banjo rang decrease flow to 5,060 ML/D at 08:00 HRS	
	15:30	Banjo rang Decrease flow to 4,000 ML/D at 16:00 HRS	
23-11-10	07:30	Banjo rang. Increase flow to 5,060 ML/D at 08:00 HRS	
	09:30	Banjo rang. Increase flow to 6,030 ML/D at 10:00 HRS	
24-11-10	07:30	Banjo rang. Increase flow to 6,990 ML/D at 08:00 HRS	
25-11-10	15:30	Banjo rang. Increase flow to 8,090 ML/D at 16:00 HRS	
29-11-10	08:30	Banjo rang. Increase flow to 9,010 ML/D at 09:00 HRS	
30-11-10	07:30	Banjo rang. Increase flow to 11,000 ML/D at 08:00 HRS	

EMERGENCY EVENT REPORT - BEARDMORE DAM

BEARDMORE DAM - EMERGENCY EVENT REPORT
LOG OF EVENTS / ACTIONS

DATE	TIME	EVENT / ACTION DESCRIPTION	RECORDED BY (INITIALS)
01-12-10	07:30	Banjo rang. Decrease flow to 9,010 ML/p at 08:00 HRS	[redacted]
	09:30	Banjo rang. Decrease flow to 8,040 ML/p at 10:00 HRS	
	11:30	Banjo rang. Decrease flow to 6,990 ML/p at 12:00 HRS	
2-12-10	08:30	Banjo rang. Decrease flow to 6,030 ML/p at 09:00 HRS	
3-12-10	07:30	Banjo rang. Increase flow to 6,990 ML/p at 08:00 HRS	
	15:30	Banjo rang. Increase flow to 8,040 ML/p at 16:00 HRS	
4-12-10	09:30	Banjo rang. Increase flow to 10,040 ML/p at 10:00 HRS	
	12:30	Banjo rang. Increase flow to 12,030 ML/p at 13:00 HRS	
	14:30	Banjo rang. Increase flow to 14,070 ML/p at 15:00 HRS	
	17:30	Banjo rang. Increase flow to 17,050 ML/p at 18:00 HRS	
5-12-10	09:30	Banjo rang. Increase flow to 20,060 ML/p at 10:00 HRS	
	21:30	Banjo rang. Increase flow to 23,010 ML/p at 22:00 HRS	
6-12-10	07:30	Banjo rang. Increase flow to 28,050 ML/p at 08:00 HRS	

EMERGENCY EVENT REPORT - BEARDMORE DAM

DAM - EMERGENCY EVENT REPORT
LOG OF EVENTS / ACTIONS

DATE	TIME	EVENT / ACTION DESCRIPTION	RECORDED BY (INITIALS)
06-12-10	08:30	Banjo rang. Increase flow to 30,090 ML/D at 09:00 HRS	[redacted]
	15:30	Banjo rang Increase flow to 35,090 ML/D at 14:00 HRS	
7-12-10	00:30	Karan rang. Increase flow to 40,090 ML/D at 01:00 HRS	
	11:30	Karan rang. Increase flow to 45,020 ML/D at 12:00 HRS	
	1700	DAM EL 207.12 TAILWATER 200.45 45020 M/D CHECK	
		SPILLWAY AND BANKS	
8-12-10	14:30	Banjo rang Increase flow to 50,030 ML/D at 15:00 HRS	
9-12-10	05:30	KARAN RANG TO INCREASE FLOW TO 55,040 ML/D 06:00 HRS	
9-12-10	14:00	KARAN RANG TO INCREASE FLOW TO 60,100 ML/D AT 15:00 HRS	
11-12-10	07:30	KARAN RANG TO INCEREASE FLOW TO 55,040 ML/D AT 08:00 HRS	
	011:00	KARAN RANG TO INCREASE FLOW TO 50,030 ML/D AT 12:00 HRS	
	15:00	KARAN RANG TO INCREASE FLOW TO 45,020 ML/D AT 16:00 HRS	
	19:00	KARAN RANG TO INCEREASE FLOW TO 40,040 ML/D AT 20:00 HRS	

EMERGENCY EVENT REPORT · _____ L A

BEARDMORE _____ DAM - EMERGENCY EVENT REPORT

LOG OF EVENTS / ACTIONS

DATE	TIME	EVENT / ACTION DESCRIPTION	RECORDED BY (INITIALS)
12-12-10	15:00	KAREN RANG TO INCEREASE FLOW TO 35,040 ML/D 16:00 HRS	[redacted]
13-12-10	07:30	KAREN RANG TO INCEREASE FLOW TO 25,030 ML/D 09:00 HRS	
14-12-10	07:00	KAREN RANG TO SET FLOW TO 30,040 ML/D 08:00 HRS	
16-12-10	07:00	KAREN RANG TO INCEREASE FLOW TO 35,040 ML/D 8:00 HRS	
	09:30	KAREN RANG TO INCEREASE FLOW TO 40,040 ML/D 10:00 HRS	
	12:30	KAREN RANG TO INCEREASE FLOW TO 45,020 ML/D 1:00 HRS	
	03:00	BANJO RANG TO INCEREASE FLOW TO 50,030 ML/D 04:00 HRS	
	07:00	KAREN RANG TO INCEREASE FLOW TO 55,040 ML/D 21:00 HRS	
17-12-10	09:00	KAREN RANG TO DECEREASE FLOW TO 50,030 ML/D 09:00 HRS	
	17:00	BANJO RANG TO DECEREASE FLOW TO 45,020 ML/D 18:00 HRS	
18-12-10	12:00	BANJO RANG TO DECEREASE FLOW TO 40,040 ML/D 01:00 HRS	
19-12-10	07:00	BANJO RANG TO DECEREASE FLOW TO 35,040 ML/D 08:00 HRS	
	15:00	BANJO RANG TO DECEREASE FLOW TO 30,040 ML/D 16:00 HRS	

EMERGENCY EVENT REPORT - BEARDMORE DAM - D...d

BEARDMORE DAM - EMERGENCY EVENT REPORT
LOG OF EVENTS / ACTIONS

DATE	TIME	EVENT / ACTION DESCRIPTION	RECORDED BY (INITIALS)
20-12-10	10:30	BANJO RANG TO INCEREASE FLOW TO 32,000 ML/D AT 11:00 HRS	[redacted]
	3:45 Pm	BANJO RANG TO INCEREASE FLOW TO 35,040 ML/D AT 16:00 HRS	
22-12-10	12:30	KAREN RANG TO INCEREASE FLOW TO 40,040 ML/D AT 1:00 HRS	
	16:00	KAREN RANG TO INCEREASE FLOW TO 45,020 ML/D AT 16:30 HRS	
	09:30	KAREN RANG TO INCEREASE FLOW TO 50,030 ML/D AT 10:00 Pm HRS	
23-12-10	09:30 AM	KAREN RANG TO INCEREASE FLOW TO 55,040 ML/D AT 10:00 AM HRS	
	04:30	KARAN RANG TO INCEREASE FLOW TO 60,100 ML/D AT 17:00 HRS	
24-12-10	06:00	KARAN RANG TO INCEREASE FLOW TO 65,020 ML/D AT 07:00 HRS	
24-12-10	9.38	Karan rang to increase release to 70,000 ML/D AT 10am	
		KARAN RANG TO INCEREASE FLOW TO 75,020 ML/D AT 17:00 HRS	
26-12-10	07:00	BANJO RANG TO DECEREASE FLOW TO 70,010 ML/D AT 08:00 HRS	
	09:00	BANJO RANG TO DECERSE FLOW TO 65,020 ML/D AT 10:00 HRS	
	20:00	KARAN RANG TO DECERSE FLOW TO 60,100 ML/D 21:00 HRS	

EMERGENCY EVENT REPORT - _____ D...d

BEARDMORE DAM - EMERGENCY EVENT REPORT
LOG OF EVENTS / ACTIONS

DATE	TIME	EVENT / ACTION DESCRIPTION	RECORDED BY (INITIALS)
27.12.10	07:00	BANJO RANG TO DECERSE FLOW TO 55,040 ML/D AT 08:00 HRS	[redacted]
	08:00	BANJO RANG TO DECERSE FLOW TO 50,030 ML/D AT 09:00 HRS	
29.12.10	11:30	KARAN RANG GO TO 55,090 ML/D AT 12:00 HRS	
	17:00	KARAN RANG GO TO 60,100 ML/D AT 17:00 HRS	
	19:00	KARAN RANG GO TO 65020 ML/D AT 19:00 HRS	
	21:00	KARAN RANG GO TO 70010 ML/D AT 21:00 HRS	
30/12/10	24:00	KARAN RANG GO TO 75020 ML/D AT 01:00 HRS	
1/1/11	03:00	INCEREASED FLOW TO 135,030 ML/D AT 03:00 HRS BK	
2/2/11	01:00	INCEREASED FLOW TO 160,20 ML/D AT 01:00 HRS BK	
		INCEREASED FLOW TO 165,080 ML/D 03:00 HRS	

GATES #12; #11; #10; & #9. ALSO CHECKED THEM FOR RUST. [redacted]

10-9-10.
DAM E.L. 206.44; 79.4 TAILWATER 195.36. OPS. TOWN WATER TESTS. SERVICED ROTORKS. RAN GEN SET. CHEC SEPTICS. TOWN FOR TOOLBOX MEETING. RECORDED 11.6MM OF RA [redacted]

11-9-10.
DAM E.L. 206.45; 79.7 TAILWATER 195.36. RECORDED 1.8MM OF RAIN. [redacted]

12-9-10.
DAM E.L. 206.45; 79.6 TAILWATER 195.36. [redacted]

13-9-10.
DAM E.L. 206.45; 79.5 TAILWATER 195.36. OPS. READ BORES. CHECKED BANKS & SEEPAGE. TOOK STARTER FROM GENSET TO DARYL & DANS FOR REPAIR. NOTIFIED ALL IN GROUPS #1, 2 & 3 OF WATER RELEASE TO J.T.W. TOMORROW. [redacted]

14-9-10.
DAM E.L. 206.55; 82.4 TAILWATER 195.36. RELEASIN 730 ML/D TO J.T.W. FROM 08:00HRS. RECORDED .4MM OF RAIN. [redacted]

15-9-10.
DAM E.L. 206.72; 87.3 TAILWATER 195.96. RELEASIN 730 ML/D TO J.T.W. OPS. CHECKED ALL GEARBOXES & SWITC ON TOP DECK. ALSO CHECKED LIGHTS & POWER POINTS. #12 GATE WOULDN'T GO DOWN. HAD NEVILLE OUT & FOUND THAT THE LIMI SWITCH WAS STICKING. TOWN WATER TESTS & BACKFLUSH FILTE. [redacted]

16-9-10.
DAM E.L. 206.89; 92.4 TAILWATER 195.96. RELEASIN 730 ML/D TO J.T.W. TILL 12:00 HRS & THEN 1,000 ML/D. TOWN FOR W.H.S. & E MEETING. TO MOONABAH TO RELEASE WATE ALSO RELEASING TO MOONABAH. BILLY & NEV & WE REMOVED COVERS & SERVICED ALL VERTICAL LIFT GATES LIMIT SWITCHES. DID TOWN WATER & TESTS. ALSO CHECKED TOP LIMIT SWITCH ON GATE #11 & PUT BULKHEAD AWAY. [redacted]

17-9-10.
DAM E.L. 207.02; 96.7 TAILWATER 196.02. RELEAS 1,000 ML/D TO J.T.W. OPS. TOWN WATER TESTS. BILLY & NE OUT & INSTALLED THE OLD STARTER MOTOR BACK IN THE GEN SET AS THE NEW ONE LOCKED UP. GENERAL MAINTENANCE. RELEASING 1500 ML/D TO J.T.W. FROM 16:00HRS [redacted]
LOCKED CAUSEWAY OFF.

18-9-10.
DAM E.L. 207.12; 100% TAILWATER 196.16. RELEA
1500 ML/D TO J.T.W. TILL 12:00 HRS & THEN 2525 ML/D.
[redacted]

19-9-10.
DAM E.L. 207.13; 100% TAILWATER 196.22 RELEA
2525 ML/D TO J.T.W. TILL 07:30 HRS & THEN 3030 ML/D.
RECORDED 2.6 MM OF RAIN.
[redacted]

20-9-10.
DAM E.L. 207.12; 100% TAILWATER 196.25 RELEA
3030 ML/D TO J.T.W. TILL 08:30 HRS & THEN 2040 ML/D. OP
READ BORES & CHECKED BANKS. DID TOWN WATER TESTS.
GENERAL MAINTENANCE. RECORDED 15 MM OF RAIN.
[redacted]

21-9-10
DAM E.L. 207.12; 100% TAILWATER 196.20. RELEA
2040 ML/D TO J.T.W. TILL 10:00 HRS & THEN 1,500 ML/D TIL
16:00 HRS & THEN 4,000 ML/D.
[redacted]

22-9-10
DAM E.L. 207.13; 100% TAILWATER 196.02 RELE
4,000 ML/D TO J.T.W. OPS. TOWN WATER TESTS. MOWING
SLASHING. NEW STARTER INSTALLED ON GEN SET BY DARYL & DAN
[redacted]

23-9-10
DAM E.L. 207.14; 100% TAILWATER 196.02. RELEA
4,000 ML/D TO J.T.W. TILL 16:00 HRS & THEN 2040 ML/D. O
TOWN WATER & TESTS. GENERAL MAINTENANCE.
[redacted]

24-9-10.
DAM E.L. 207.19; 100% TAILWATER 196.22. RELEA
2040 ML/D TO J.T.W. TILL 07:30 HRS & THEN 4,000 ML/D.
16:00 HRS & THEN 5,060 ML/D OPS. TOWN WATER TESTS. QUENT,
QUIG HERE & CUT DOWN TREE IN THE PARK. BILLY & BILL SHIF
IT. RECORDED 7.2 MM OF RAIN.
[redacted]

25-9-10.
DAM E.L. 207.20; 100% TAILWATER 196.57. RELEAS
5,060 ML/D TO J.T.W. [illegible]
[redacted]

26-9-10
DAM E.L. 207.23; 100% TAILWATER 196.90. REL
5060 ML/D TO J.T.W. TILL 14:00 HRS & THEN 6,030 ML/D.
[redacted]

27-9-10.
DAM E.L. 207.23; 100% TAILWATER 196.90. RELEA

6030 ML/D TO J.T.W. TILL 16:00 HRS & THEN 5,060 ML/D OPS.
CHECKED BANK. READ BORES. DID TOWN WATER TESTS. WAINE
LAWSON OUT TO FREE AMENITIES TOILETS & PUT A NEW PA
& CITREN IN OFFICE TOILET.

[redacted]

28-9-10.

DAM E.L. 207.22; 100% TAILWATER 196.80
RELEASING 5,060 ML/D TO J.T.W. OPS. BACKFLUSHED TOW
WATER FILTERS. MOWING & TRIMMING TREES.

[redacted]

29-9-10.

DAM E.L. 207.21; 100% TAILWATER 196.80. RELEASIN
5,060 ML/D TO J.T.W. TILL 15:00 HRS & THEN 6,030 ML/D TILL 19.
& THEN 6,990 ML/DAY. OPS. TOWN WATER TESTS. SLASHING. DON
OUT TO MEASURE UP FOR REPAIRS TO TOILET BLOCK.

[redacted]

30-9-10.

DAM E.L. 207.21; 100% TAILWATER 197.02. RELEAS
6,990 ML/D TO J.T.W. OPS. TOWN WATER. OFFICE WORK.
READ FOUNDATION PRESSURES & PIEZOMETERS.

[redacted]

1-10-10.

DAM E.L. 207.24; 100%. TAILWATER 197.02. RELEASI
6,990 ML/D TO J.T.W. TILL 09:00 HRS & THEN 8,040 ML/D. OPS.
MOONABAH. END OF MONTH BOOKWORK. CLEAN REC & RUBB
TO TOWN DUMP. TOWN WATER TESTS. WATER RELEASES FOR
SEPTEMBER HAVE BEEN RECORDED ON THE COMPUTER A
BEARDMORE DAM. THE MAXIMUM DAILY RELEASE WAS 6990.
RECORDED ON THE 30TH. ALL RAINFALL & STORAGE LEVEL DA
HAVE BEEN COLLECTED & TRANSFERRED INTO S.W.I.M.S. ALL
INSTRUMENTATION READINGS HAVE BEEN RECORDED IN S.A.
ALL OPERATION & MAINTENANCE WORK HAS BEEN CARRIED O
IN ACCORDANCE WITH THE WORK ORDERS DURING THE MONTH.
DISCHARGE OVER THE SPILLWAY COMMENCED ON THE 16-9-
AT MIDDAY.

[redacted]

2-10-10.

DAM E.L. 207.21; 100%. TAILWATER 197.02. RELEASIN
8,040 ML/D TO J.T.W. RECORDED 2.2 MM OF RAIN.

[redacted]

3-10-10.

DAM E.L. 207.11; 99.5%. TAILWATER 197.02. RELEASIN
8,040 ML/D TO J.T.W. TILL 08:00 HRS THEN 5,060 ML/D TILL
11:00 HRS THEN 4,000 ML/D TILL 16:00 HRS & THEN 3,030 ML/
RECORDED 1.6 MM OF RAIN.

[redacted]

4-10-10.

DAM E.L. 207.11; 99.5% TAILWATER 196.30. RELEASIN
3030 ML/D TO J.T.W. OPS. CHECKED BANKS. READ
BORES. DID TOWN WATER TESTS. TOOK END OF MONTH B
WORK TO TOWN. CLEANED REC.

[redacted]

5-10-10.

DAM E.L. 207.14; 100% TAILWATER 196.30. RELEASI
3030 ML/D TO J.T.W. TILL 13:00HRS & THEN 4000 ML/D. OPS.
BACKFLUSH FILTERS. SLASHING. CHIPPY, GORDON & DONNIE
WORKING ON AMENITIES BLOCK.

[redacted]

6-10-10.

DAM E.L. 207.18; 100% TAILWATER 196.76. RELEAS
4000ML/D TO J.T.W. TILL 09:00HRS & THEN 6030ML/D. TILL 16:00.
& THEN 6,990ML/D. OPS. TOWN WATER TESTS. MOONABAH. B
FINISHED TOILET BLOCK.

[redacted]

7-10-10.

DAM E.L. 207.15; 100% TAILWATER 207.01. RELEAS
6,990 ML/D TO J.T.W. TILL 12:00HRS & THEN 6030ML/D. OPS.
REPAIRED LEAKING VALVE IN THE GANNERY. WAIN LAWSON
TO CONNECT THE RAIN WATER TANKS TO THE HOUSES. GENER
MAINTENANCE.

[redacted]

8-10-10.

DAM E.L. 207.18; 100% TAILWATER 196.90. RELEAS
6030 ML/D TO J.T.W. TILL 12:00HRS & THEN 6990 ML/D. O
SHUT MOONABAH. TOWN FOR MEETING. RECORDED 9.6MM OF.

[redacted]

9-10-10

DAM E.L. 207.21; 100% TAILWATER 197.01. RELEASI
6,990 ML/D TO J.T.W. RECORDED 30.8MM OF RAIN.

[redacted]

10-10-10.

DAM E.L. 207.15; 100% TAILWATER 197.01. RELEASING
6,990ML TO J.T.W. TILL 07:00HRS & THEN 6030ML/D TILL 09:0
& THEN 5060ML/D TILL 12:00HRS & THEN 4,000ML/D TILL 16:
& THEN 3,030ML/D. RECORDED 2.0MM OF RAIN.

[redacted]

11-10-10.

DAM E.L. 207.16; 100% TAILWATER 196.30. RELEAS
3,030ML/D TO J.T.W. TILL 10:00HRS & THEN 4,000ML/D TILL
& THEN 5,060ML/D TILL 16:00HRS & THEN 6030ML/D TILL 18:0
& THEN 8040ML/D. OPS. CHECKED BANKS & SEEPAGE. REP
LEAK IN THURAGGI CHANNEL CLOSE TO OUTLET STRUCTURE. F

204

CLEAR WATER. DARYN TOOK PHOTOS. READ BORES & DID TOWN WATER TESTS. RAN GEN SET. RECORDED 3.6MM OF RAIN [redacted]

2-10-10.

DAM E.L. 207.12; 100% TAILWATER 197.11. RELEASING 8,040 ML/D TO J.T.W. TILL 08:00HRS & THEN 6,990 ML/D. OPS. ASHLEY OUT TO HELP CLEAN OUT TOWN WATER SETTLING TANK & THEN MOW WHILE BILL SLASHED. RECORDED 1.2M [redacted]

3-10-10.

DAM E.L. 207.11; 99.5% TAILWATER 197.0. RELEASING 6,990 ML/D TO J.T.W. TILL 16:00HRS & THEN 8,040 ML/D. OPS. ASHLEY OUT. DID TOWN WATER & TEST THEN THE REST OF THE DAY DOING 12M COMPONENT SERVICE [redacted]

4-10-10.

DAM E.L. 207.13; 100% TAILWATER 197.15. RELEASING 8,040 ML/D TO J.T.W. TILL 07:30HRS & THEN 9,010 ML/D TILL 09:00HRS & THEN 10,040 ML/D. ASHLEY MOWING & SLASHING. RECORDED 15MM OF RAIN. [redacted]

5-10-10.

DAM E.L. 207.12; 100% TAILWATER 197.21S. RELEASING 10,040 ML/D TO J.T.W. TILL 08:00HRS & THEN 11,000 ML/D TILL 11:00 & THEN 12,030 ML/D. TILL 16:00HRS & THEN 13,000 ML/D. OPS. TOWN WATER TESTS. CLEAN REC. MOOLABAH. RECORDED 5.2MM OF RAIN. [redacted]

6-10-10

DAM E.L. 207.12; 100% TAILWATER 197.55. RELEASING 13,060 ML/D TO J.T.W. TILL 17:30HRS & THEN 15,020 ML/D TILL 20:00HRS & THEN 17,050 ML/D. RECORDED 17.2MM OF RAIN. [redacted]

7-10-10.

DAM E.L. 207.13; 100% TAILWATER 197.84. RELEASING 17,050 ML/D TO J.T.W. TILL 08:00HRS & THEN 18,050 ML/D. TILL 13:00HR & THEN 20,060 ML/D TILL 18:00HRS & THEN 22,040 ML/D [redacted]

8-10-10

DAM E.L. 207.10; 99.4% TAILWATER 198.22. RELEASING 22,040 ML/D TO J.T.W. TILL 14:00HRS & THEN 21,050 ML/D. OPS., READ BORES. TO MOOLABAH WHICH WAS BLOCKED UP SO MUCH THE TRASH RACKS HAD TO BE PULLED OUT. [redacted]

9-10-10.

DAM E.L. 207.09; 99.0% TAILWATER 198.15. RELEASING

21,050 ML/D TO J.T.W. TILL 22:00 HRS & THEN 22,040 ML/D
OPS. BACKFLUSH FILTERS & TOWN WATER TESTS. MOWING &
SLASHING.

[redacted]

20-10-10
Dam E.L. 207.10; 99.2% TAILWATER 197.22. RELEA
22,040 ML/D TO J.T.W. OPS. TOWN WATER TESTS. CHECKIN
GEARBOXES & DEWATERING THEM.

[redacted]

21-10-10.
DAM E.L. 207.09; 98.9% TAILWATER 197.22. RELEAS
22,040 ML/D TO J.T.W. TILL 08:00 HRS & THEN 20,060 ML/D. C
TOWN FOR MEETING. MOOLABAH. GENERAL DUTIES.

[redacted]

22-10-10.
DAM E.L. 207.16; 100% TAILWATER 197.09. RELEA
20,060 ML/D TO J.T.W. OPS. TOWN WATER & 24 SERVICE WA
TESTS. RUBBISH TO TOWN DUMP & SHOP. MOOLABAH ON WAY HOME.

[redacted]

23-10-10
DAM E.L. 207.15; 100% TAILWATER 198.09 RELEAS
20,050 ML/D TO J.T.W. TILL 12:00 HRS & THEN 18,050 ML/D
TILL 17:00 HRS & THEN 16,040 ML/D.

[redacted]

24-10-10.
DAM E.L. 207.17; 100% TAILWATER 197.77. RELEA
16,040 ML/D TO J.T.W.

[redacted]

25-10-10
DAM EL 207.13 TAILWATER 197.77 REDUCED FROM
16,000 ML/DAY TO 14,000 ML/DAY @ 08.00 HRS. TEST TOWN WA
CLEAN TOILETS CHECK OBSERVATION BORES. REDUCED RELEASE TO J.
FROM 14,000 ML/DAY TO 12,000 ML/DAY @ 11.00 HRS. DONNY AN
GORDON HERE TO CHANGE ZILACON AND FILTERS ON GEAR BOXES
MOTORS DAM WALL.

[redacted]

26-10-10
DAM EL 207.12 TAILWATER 197.45 REDUCED FLOW
FROM 12,000 ML TO 10,000 ML/DAY @ 0800 HRS AND THE FLOW
10,000 ML/DAY TO 9,000 ML/DAY @ 1700 HRS DONNY AND GORDON
FINISHED GEAR BOXES, CHIPPY PUTTING UP NEW WARNING SIGNS ON
BUILDINGS. GORDON STARTED MOWING AND CHEMICAL SPRAYING

[redacted]

206

27-10-10

DAM EL 207.13 TAILWATER 197.36 RELEASING 9,000 ML/DAY TO J.T.W. GORDON MOWING, TOP UP TOWN WATER TEST TOWN WATER. SHUT OF THURRAGI AND MOOHARIAN @ 1500HRS

[redacted]

28-10-10

DAM EL 207.13 TAILWATER 197.25 RELEASING 9000 ML/DAY TO J.T.W. GORDON AWAY DONNY HERE TO FINISH MOWING AND CHEMICAL SPRAYING, START METER READING [redacted]

29-10-10.

DAM EL 207.15 TAILWATER 197.26 RELEASING 9000 ML/DAY TO J.T.W TOP UP AND TEST TOWN WATER EMPTIED BINS REC AREA CLEANED TOILET BLOCK, DONNY MOWING AND GRADING BANK FIXED BROKEN PIPE IN REC AREA [redacted]

30-10-10

DAM E.L. 207.19; 100% TAILWATER 197.26. RELEASING 9,010 ML/D TO J.T.W.

[redacted]

31-10-10.

DAM E.L. 207.10; 99.3% TAILWATER 197.26. RELEASING 9,010 ML/D TO J.T.W. TILL 12:00HRS & THEN 5,060 ML/D TILL 17:00HRS & THEN 4,000 ML/D.

[redacted]

1-11-10.

DAM EL. 207.10; 99.3% TAILWATER ? RELEASING 4000 ML/D TO J.T.W. TILL 08:00HRS & THEN 3,030 ML/D OPS CHECKED BANKS. READ BORES. DID TOWN WATER TESTS. READ FOUNDATION PRESSURE GUAGES & PIEZOMETERS. WATER RELEASES FOR THE MONTH HAVE BEEN RECORDED ON THE COMPUTER AT BEARDMORE DAM. THE MAXIMUM DAILY RELEA WAS 22,040 ML/D ON 22-10-10. ALL RAINFALL & STORAGE LEVE DATA HAVE BEEN COLLECTED & TRANSMITTED INTO S.W.I.M.S. AL INSTRUMENTATION READINGS HAVE BEEN RECORDED & ENTER INTO S.AP PRODUCTION. ALL OPERATION & MAINTENANCE WOR HAS BEEN CARRIED OUT IN ACCORDANCE WITH THE WORK ORDERS DURING THE MONTH.

[redacted]

3-11-10

DAM E.L. 207.10; 99.3% TAILWATER 196.35 RELEASING 3,030 ML/D TO J.T.W. TILL 08:00 HRS & THEN 1,000 ML/D TILL 16:00 HRS & THEN 730 ML/D. OPS. BACKFLUSHED TOWN WATER

FILTERS. RAN COMPRESSOR. OPENED CAUSEWAY & REPAIRE ROAD. CLEANED REC. OFFICE WORK. [redacted]

3-11-10

DAM E.L. 207.14; 100% TAILWATER 195.90. RELEA 730 ML/D TO J.T.W. TILL 08:00 HRS & THEN 1220 ML/D. O. TOWN WATER & TESTS. MOWING. TOOK PAPER WORK TO TOWN. [redacted]

4-11-10.

DAM E.L. 207.17; 100% TAILWATER 196.02. RELEA 1220 ML/D TO J.T.W. TILL 16:00 HRS & THEN 1460 ML/D. C TOWN WATER. MOWING. CHIPPY, GORDON & DONNIE WORKING IN ARE. [redacted]

5-11-10.

DAM E.L. 207.16; 100% TAILWATER UNKNOWN. RELE 1460 ML/D TO J.T.W. TILL 08:00 HRS & THEN 2040 ML/D. TIL 16:00 HRS & THEN 1220 ML/D. OPS. TOWN WATER TESTS. RAN GEN SET. MOWING. BOYS PAINTING ECT IN REC AREA [redacted]

6-11-10.

DAM E.L. 207.16; 100% TAILWATER UNKNOWN. RELEA 1220 ML/D TO J.T.W. TILL 15:00 HRS & THEN 730 ML/D. [redacted]

7-11-10

DAM E.L. 207.17; 100% TAILWATER 195.95 RELEASI 730 ML/D TO J.T.W. RECORDED 14.4 MM OF RAIN INCLUDING HA [redacted]

8-11-10.

DAM E.L. 207.17; 100% TAILWATER 195.95. RELEAS 730 ML/D TO J.T.W. OPS. READ BORES. BILLY & GORDO OUT & WE CARRIED ON CHECKING THE ANODES ON THE GATES. WARREN & DONNIE PAINTING & DOING UP REC AREA. RECORDED 2.2 MM OF RAIN. [redacted]

9-11-10.

DAM E.L. 207.16; 100% TAILWATER 195.95. RELEAS 830 ML/D TO J.T.W. FROM 08:00 HRS. OPS. BILLY & GORDON OUT & WE CARRIED ON CHECKING ANODES. DID SOME PATC PAINTING ON GATE #4. WARREN & DON WORKING IN REC AR CHECKED THE TOP LIMIT SWITCH ON GATE WHICH WORKED OK [redacted]

10-11-10.

DAM E.L. 207.16; 100% TAILWATER 196.0 RELEASIN 830 ML/D TO J.T.W. OPS. FINISHED GATE #4, CHECKED

ANODES ON GATE #3 & THEN PUT BULKHEAD GATE IN BAY #2. TOWN WATER & TESTS. WARREN & DONNIE PAINTING TOILET BLOCK.

[redacted]

1-11-10.

DAM E.L. 207.15; 100% TAILWATER 196.0 RELEASING 530 ML/D TO J.T.W. TILL 16:00 HRS & THEN 500 ML/D. OPS. TOWN WATER. BILLY & GORDON OUT & WE TOOK THE SIDE & BOTTOM STRIPS & RUBBERS OFF GATE #2. WARREN & DONNIE PAINTING AMENITIES BLOCK.

[redacted]

2-11-10.

DAM E.L. 207.14; 100% TAILWATER 195.83. RELEASING 500 ML/D TO J.T.W. TILL 16:00 HRS & THEN 300 ML/D. OPS TOWN WATER & TESTS. BILLY & GORDON OUT & WE PRE PRIMED STRIPS & WHERE STRIPS GO ON THE GATE & ALL BOLT HEADS THAT JOIN THE GATE AFTER SURVEYING IT.

[redacted]

3-11-10.

DAM E.L. 207.13. 100% TAILWATER 195.74. RELEASING 300 ML/D TO J.T.W.

[redacted]

4-11-10.

DAM E.L. 207.13; 100% TAILWATER 195.74. RELEASING 300 ML/D TO J.T.W.

[redacted]

5-11-10.

DAM E.L. 207.14; 100% TAILWATER 195.74. RELEASING 300 ML/D TO J.T.W. TILL 14:00 HRS & THEN 400 ML/D. OPS. TOWN WATER TESTS. READ BORES. DAM SURVEILLANCE. ASHLEY, BILLY & GORDON HELPING & WE PAIN PAINTED GATE #2 & SIDE STRIPS. RECORDED 5 MM OF RAIN.

[redacted]

6-11-10.

DAM E.L. 207.14; 100% TAILWATER 195.82 RELEASING 300 ML/D TO J.T.W. TILL 14:00 HRS & THEN 600 ML/D TILL 17:00 HRS. THEN 800 ML/D. RECORDED 15.0 MM OF RAIN.

[redacted]

7-11-10.

DAM E.L. 207.16; 100% TAILWATER 195.90. RELEASING 300 ML/D TO J.T.W. OPS. TOWN WATER, TESTS & BACKFLUSH FILTERS. TOWN FOR GEAR. RECORDED 14.2 MM OF RAIN.

[redacted]

8-11-10.

DAM E.L. 207.16. 100% TAILWATER 195.90. RELEASING

800 ML/D TO J.T.W. OPS TOWN WATER & TESTS. BOYS O
& WE PUT THE LAST COAT OF PATCH PAINT ON GATE #2. DO
FINISHED PAINTING SHELTERS AT THE BOAT RAMP.
[redacted]

19-11-10.
DAM E.L. 207.14. TAILWATER 195.90. RELEASIN
800 ML/D TO J.T.W. OPS. TOWN WATER. TOOLBOX MEETING
TOWN BOYS OUT & WE PUT THE RUBBERS & STRIPS BA
ON GATE #2. ALSO CHECKED THE TOP LIMIT SWITCH O
GATE #2 WHICH WORKED. RECORDED 7.0MM OF RAIN
[redacted]

20-11-10.
DAM E.L. 207.13; 100% TAILWATER 195.90. RELE
800 ML/D TO J.T.W. TILL 18:00 HRS & THEN 1,200 ML/D
[redacted]

21-11-10.
DAM E.L. 207.17; 100% TAILWATER 196.20. REL
1,200 ML/D TO J.T.W. TILL 07:00 HRS & THEN 3030 ML/D T
09:00 HRS & THEN 5,060 ML/D TILL 11:00 HRS & THEN 5,
TILL 19:00 HRS & THEN 6030 ML/D. RECORDED 14.2MM OF R
[redacted]

22-11-10.
DAM E.L. 207.13; 100% TAILWATER 196.90. RELE
6,030 ML/D TILL 08:00 HRS & THE 5,060 ML/D OPS. TOW
WATER, READ BORES. HAD FELLOWS OUT FROM NOBLE &
TO WORK OUT SET UP TO X-RAY & ROPES ON THE VERT
LIFT GATES... REDUCED FLOW TO J.T.W. TO 4,000 ML/D AT 1
RECORDED 21.8MM OF RAIN.
[redacted]

23-11-10.
DAM E.L. 207.13; 100% NON RECORDED TAILWA
RELEASING 4,000 ML/D TO J.T.W. TILL 08:00 HRS & THEN 506
TILL 10:00 HRS & THEN 6030 ML/D. ASHLEY OUT TO DO JOB
NOBLE & CO BOYS OUT TO X-RAY INSIDE ROPES & GATES #1 R; #
BILLY OUT TO HELP.
[redacted]

24-11-10.
DAM E.L. 207.13; 100% TAILWATER 196.87 RELE
6,030 ML/D TO J.T.W. TILL 08:00 HRS & THEN 6990 ML/D.
TOWN WATER & TESTS. BILLY HERE TO HELP & LEARN. P
BULKHEAD GATE AWAY. SERVICED KUBOTA. TO TOWN & MOWING
[redacted]

25-11-10.
DAM E.L. 207.13; 100% TAILWATER 196.87. RELE
6990 ML/D TO J.T.W. OPS. BILLY HERE HELPING GENERAL

210

MAINTENANCE, SLASHING & MOWING [redacted]

26-11-10.
DAM E.L. 207.13; 100% TAILWATER 196.87 RELEASI
6990 ML/D TO J.T.W. [redacted]

27-11-10.
DAM E.L. 207.10; 99.3% TAILWATER 196.87 RELEASI
6,990 ML/D TO J.T.W. [redacted]

28-11-10.
DAM E.L. 207.13; 100% TAILWATER 196.87 RELEASI
6,990 ML/D TO J.T.W TILL 16:00 HRS & THEN 8,040 ML/D
RECORDED .6 MM OF RAIN. [redacted]

29-11-10.
DAM E.L. 207.14; 100% TAILWATER 197.10 RELEA
8040 ML/D TO J.T.W. TILL 09:00 HRS & THEN 9010 ML/D O
READ BORES. CHECK BANKS, GENERAL CHECK IN GALLERY
& READ FOUNDATION PRESSURE GUAGES. RECORDED 8.0 MM RAIN [redacted]

30-11-10.
DAM E.L. 207.16; 100% TAILWATER 197.20 RELEASIN
9,010 ML/D TO J.T.W. TILL 09:00 HRS & THEN 11,000 ML/D C
MOONABAH. BACKFLUSH TOWN WATER FILTERS. READ PIEZOM
GENERAL MAINTENANCE. BILLY HELPING & LEARNING. RECORDED 4.0 MM [redacted]

1-12-10.
DAM E.L. 207.09; 98.9% TAILWATER 197.38 RELEASI
11,000 ML/D TO J.T.W. TILL 08:00 HRS & THEN 9010 ML/D TILL
10:00 HRS & THEN 8,040 ML/D TILL 12:00 HRS & THEN 6,990 ML/D
OAS TOWN WATER. SOME 3 MONTH GANTRY CRANE SERVICE. BILL
STILL HERE WATER RELEASES FOR THE MONTH HAVE BE
RECORDED ON THE COMPUTER AT BEARDMORE DAM. THE
MAXIMUM DAILY RELEASE WAS 11,411 ML ON THE 30TH. ALL
RAINFALL & STORAGE LEVEL DATA HAVE BEEN COLLECTE
TRANSMITTED FOR INPUT TO SWIMS. ALL INSTRUMENTATION
READINGS HAVE BEEN RECORDED & ENTERED INTO S.A.P. A
OPERATION & MAINTENANCE WORK HAS BEEN CARRIED OUT IN
ACCORDANCE WITH THE WORK ORDER NUMBERS DURING THE
MONTH. DISCHARGE OVER THE SPILLWAY COMMENCED ON 1
FOR DETAILS REFER TO THE EMERGENCY EVENT REPORT.
RECORDED 2.4 MM OF RAIN. [redacted]

2-12-10.
DAM E.L. 207.09; 98.9% TAILWATER 197.0 RELEA

C11

6,990 ML/D TO J.T.W. TILL 09:00HRS & THEN 6030ML/D OP.
MOONABAH. GENERAL MAINTENANCE.

[redacted]

3-12-10

DAM E.L. 207.11; 99.5% TAILWATER 196.57 RELEASING
6030 ML/D TO J.T.W. TILL 08:00HRS & THEN 6,990ML/D TILL 16:
& THEN 8,040ML/D OPS. TOWN WATER TESTS. GURNEY OUT
MIXING ROOM, STORE & WORKSHOP. CLEAN OFFICE & SITE.
RECORDED 1.2mm OF RAIN.

[redacted]

04-12-10.

DAM E.L. 207.10; 99.3% TAILWATER 197.10. RELEAS.
8,040 ML/D TO J.T.W. TILL 10:08HRS & THEN 10,040 ML/D TIL
13:00HRS & THEN 12,030 ML/D TILL 15:00HRS & THEN 14,07
TILL 18:00HRS & THEN 17,050 ML/D. RECORDED 11.6mm OF RA

[redacted]

5-12-10.

DAM E.L. 207.11; 99.5% TAILWATER 197.85. RELEA
17,050 ML/D TO J.T.W. TILL 10:00HRS & THEN 20,060 ML/D. TIL
22:00HRS & THEN 23,010. RECORDED 8.8mm OF RAIN

[redacted]

6-12-10.

DAM E.L. 207.12; 100% TAILWATER 198.28. RELEA
23,010 ML/D TILL 08:00HRS & THEN 25,050 ML/D TILL 09:0
& THEN 30,040 ML/D TILL 16:00HRS & THEN 35,040 ML/D. BU
OUT TO HENP DID OPS, TOWN WATER TESTS. CHECKED B
SPRAYED SNARTWEED ALONG UPSTREAM SIDE OF BANK.

[redacted]

7-12-10.

DAM E.L. 207.13; 100% TAILWATER 199.23 RELEASI
35,040 ML/D TO J.T.W. TILL 01:00HRS & THEN 40,040 ML/D T
12:00HRS & THEN 45,020 ML/D. CHECKED BANKS. PUT NE
TUBES IN ALL THE OVERHEAD LIGHTS ON THE BOTTOM WALKW
SENT WATER SAMPLES TO TOOWOOMBA. STARTED 24HR MONI
ON THE DAM.

[redacted]

8-12-10.

DAM E.L. 207.13; 100% TAILWATER 199.46. RELEA
45,020 ML/D TO J.T.W. TILL 13:00HRS & THEN 50,030 ML/D.
DID 3 MONTH SERVICE ON GANTRY CRANE. HAD ELECTRI
PROBLEM WHEN OPERATING A EMERGENCY STOP BUT
HAD OUR ELECTRICAN OUT TO FIX THE PROBLE

[redacted]

9-12-10

Dam E.L 207.16 100% Tailwater 199.70

CLC

Releasing 55,040 ML/D to Jack Weir till 03:0
Then 60,100 ML/D. Done Work Orders and Slashin
[redacted]

10-12-10
Dam EL 207.13 Tail water 200.24.
releasing 60,100 ML/D. To J.T.W till 08:00 hrs
Dip town Water, checked banks and done Slashing
[redacted]

11-12-10
Dam EL 209.06 tail water 20.27
releasing 55,040 ML/D to Jack.T.Weir till 12:
then 50,030 till 16:00 hrs then 45,020 till 16:
then 40,040 at 20:00 hrs. Recorded 3mm of Ra
[redacted]

12-12-10
Dam EL 207.16 Tailwater 199.20
releasing 40:040 ML/D to J.T.W till 16:00 hrs
then at 35,040 ML/D
[redacted]

13-12-10
Dam EL 207.09 Tailwater 198.97
releasing 25,030 to J.T.Weir. Done town Water
and Work Orders. Council took 4 inch pump delive
and Suction
[redacted]

14-12-10
Dam EL 207.19 Tailwater 198.75
releasing 30,040 ML/D to J.T.Weir. Did Work
Orders, dam Surveillance and Service discharg
Valves.
[redacted]

15-12-10
Dam EL 207.08 Tailwater 198.67 releas
30,040 ML/D to J.T.Weir. Gordon, Warren and
Donny were here Spraying and Slashing.
[redacted]

16-12-10
Dam EL 207.22 Tailwater 198.67 releas
35,040 ML/D to J.T.Weir. Recorded 1.2mm of rain
Work orders, town Water, Dam Surveillance. Lifte
gates to 40,040 10:00 am to J.T.Weir.
[redacted]

17-12-10
Dam EL 207.00 Tailwater 199.88
Releasing 55,040 to J.T.Weir Town Water and

Spraying and Slashing. Donald was out here Slashi

20-12-10 [redacted]

Dam EL 207.09 Tailwater 198.70 releasing 30,040 ML/D to J.T. Weir. Did townwa did some Spraying and Slashing. Releasing 1.100 down THURAGGI Channel. [redacted]

21-12-10

Dam EL 207.10 Tailwater 198.97 Releasi 35,040 ML/D to J.T. Weir. Cleaned Evap Pond Did Slashing and Work Orders. Lowed moolabah Weir to 900 ML/D [redacted]

22-12-10

Dam EL 207.12 Tailwater 198.98 releasi 35,040 ML/D to J.T. Weir. Did back flush on to Water. Put new fuel meter on fuel tank, releasing 800 ML/D to moolabah. increased flow to 40,0 ML/D 13:00 hrs. [redacted]

23-12-10

Dam EL 207.15. Tailwater 199.68 releasing 50,030 to J.T. Weir. Work Orders, Servic generator beardmore dam. Moolabah releasing 800 ML/D to Bukinbah Weir, increased flow t 55,040 to J.T Weir at 10:00am. increased flow to 60,100 at 17:00 HRS. [redacted]

24-12-10

Dam E.L 207.17 Tailwater 200.28 releasing 60,100 ML/D to J.T.W till 07-00 HRS then 65,020 ML/D till 10:00 HRS & then 70,0 ML/D. OPS town Water tests. Had general Chec of the gallery & read foundation pressure guag [redacted]

25-12-10

Dam EL 207.10 tailwater 200.89 releasing 75,020 ML/D to J.T.W. Montrina Da Banjo took photo of Crack in Wall. [redacted]

26-12-10

Dam EL 207.06 Tailwater 200.89. Releasi 70,010 ML/D to J.T.W. Did first Inspection

214

of Dam 08:30 HRS Went to 65,020 ML/D at 08:00 than 60,100 at 10:00am. Karen Came to have a look at the Wall Then went to 60,100 21:00 HRS [redacted]

27-12-10

Dam EL 207,00 Tailwater 200,23. Rele 55,040 to J.T.W at 8:00 then to 50,030 ML/D at 9:00 HRS. Did town Water, bores & Dam Inspection EL at 15:00 HRS 207,04 Flow at 50,030 [redacted]

28-12-10

Dam EL 207,02 tailwater 199,68 releasir 50,030 ML/D to J.T. Weir.

29-12-10.

DAM E.L. 207.06; 97.9 TAILWATER 199.68. RELEAS 50,030 ML/D TO J.T.W

Dam E.L 207.322 Releases increased to 60,100 ML/D as dam wall closed while moving buoyli

Dam E.L 207.327 Releases increased to 65,020 ML/D.

Dam E.L. 207.137 Releases increased to 70,010 ML/D

30.12.10 DAM E.L. 207.286 RELEASES INCREASED TO 75.020. ML/D.

DAM E.L 207.271 Tailwater 200.86 Release increased to 80,020.

Dam E.L 207.249 Tailwater 201.05 Release increased to 85,040

Dam E.L 207.240 Tailwater 201.06 Release increased to 90010.

Dam E.L 207.18 Tailwater 201.40 Release increased to 95,060.

Dam E.L 207.075 Tailwater 201.45 Release decreased to 90010.

Dam E.L 207.15 Tailwater 201.50, Release increased to 100,010.

31.12.10 Dam E.L. 207.144 Tailwater 201.8 Release increased to 105,010. Fine and Sunny morning.

09:00 HRS DAM E.L 207.15. TAILWATER 201.98. INCREAS FLOW TO 110,050 ML/D.

11:00 HRS DAM E.L 207.15. TAILWATER 202.12 INCREASE FLOW TO 115,040 ML/D.

1700 DAM E.L 207·15 TAIL WATER 202·35 INCREASED FLOW TO 120,040 ML/D
1800 THURAGGI CHANNEL CLOSED
19:00 DAM E.L 207·15 TAIL WATER 202·46 INCREASED FLOW TO 124,990 ML/D.
20:00 DAM EL 207·15 TAIL WATER 202·63 INCREASED FLOW TO 130040 ML/D. [redacted]

1-1-011
24:00 HRS. DAM EL 207,15 TAIL WATER 202,63. BILL, GORDON, I FIRST INSEPECTION 1:00 AM ALL OK. AT 03:00 HRS INCREASE FLO 135,030 DAM EL WAS AT 207,16 TAIL WATER 202.73 DID N°2 INSEPE 05:00 DAM EL 207,14 TAIL WATER 202,88. DID N°3 INSEPCTION TOPED UP WATER AND DONE TESTS. 08:00 DAM EL 207,16 TAIL WATER 202,88 INCR FLOW TO 140,020 ML.
10:00 HRS. INCREASED FLOW TO 145,060 ML/D. HAD DA. INSPECTION. DID 2ND DAM INSPECTION AT 15:00 HRS. STEWA. FROM WORKHORSE WHIPPERSNIPPERING & SLASHING. 16:00 HRS INCRE FLOW TO 150,050 ML/D. [redacted]

18:00 DAM E.L 207·15 TAIL WATER 203·10 INCREASED FLOW TO 155,010 ML/D.

2/1/011
01:00 HRS DAM EL 207,16 TAIL WATER 203,25 INCRE FLOW TO 160,020 HAD FIRST INSEPECTION ALL OK. 03:00 HRS DAM E TAIL WATER 203,39 INCREASED. FLOW TO 165,080 ML/D. DID 2ND DAM IN 07:00 DAM EL 207,15 TAIL WATER 203,50 INCREASED FLOW TO 170,040 ML
9 AM INCREASED FLOW TO 175,010 ML/D TAIL WATER 20 CHECKED BANK & WINGWALLS & TOOK PHOTOES. ALSO READ PIEZOMETERS. 10 AM. INCREASED FLOW TO 180,040 ML/D. 11 AM INCREASED FLOW TO 185,040 ML/D. 12:00 HRS CHECKED BA & READ BORES & PIEZOMETERS. [redacted]

5 Pm DAM EL 207·11 TW 204·00. 6 Pm DAM EL 207·11 TW 204·00 READ BORES AND PIEZOMETERS, DROVE AND WALKED BANKS ALL OK. 7 Pm DAM EL 207·12 TW 204·10 8 Pm DAM EL 207·13 TW 204·13 CHANGED TO 190,020 GATE OPENINGS BY CHART, SENT TO BANJO INSPECTION CHART SENT TO JOHN EATON. 9 Pm DAM EL 207·13 TW & CHANGED TO 195,000 GATE OPENINGS BY CHART, SENT TO BANJO. 10 Pm DAM EL 207·11 TW 204·16 11 Pm DAM EL 207·11 TW 204·14 CHECKED BANKS WITH TORCH. ALL GEAR FROM TOOWOOMBA DELIVER [redacted]

03-1-11

12:15 AM DAM EL 207,13 TAILWATER 204,15 DID BOR
AND PIEZOMETER READINGS 03:00 HRS DAM EL 207,14 TAIL WATE
204,15 INCEREASED FLOW TO 200,040 ML/D DID 2ND DAM INSPECT
ALL OK. 05:00 DAM EL 207,14 TAIL WATER 204,28 INCEREASED FLOW
205,030 06:00 HRS DAM EL 207,13 TAILWATER 204,34 DID PIEZOMETER
READINGS AND BORES. BA

9AM CONTINUE MONITORING THE BANKS & WING W
INCREASED FLOW TO 210,050 ML/D. NEVILLE & BOYS REMOV
STANDBY GENERATOR FROM HUT. 12:00 HRS. READ BORES
PIEZOMETERS INCREASED FLOW TO 215,020 ML/D [redacted]

5Pm DAM EL 207.10 TW 204.55 6Pm DAM EL 207.09 TW 204
READ BORES AND PIEZOMETERS CARRIED OUT BANK INSPECTION SE
BORE READINGS AND INSPECTION SHEETS TO JOHN EATON. 7Pm DAM EL 20
TW. 204.55 8Pm DAM EL 207.08 TW. 204.57 NO CHANGES DAM STEADY.
9Pm DAM EL 207.08 TW 204.57 10Pm DAM EL 207.08 TW 204
DROVE BANKS FOR INSPECTION. 11Pm DAM EL 207.08 TW 204.57.
REMOVED GENERATOR FROM BANK - GENERATOR HUT. REMOVED TO COMPOUND IN T
12 Pm DAM EL 207.10 TW 204.57. PAT ARRIVED WITH MATTRESSES. [redacted]

04-1-11

12:15 AM DAM EL 207,10 TAILWATER 204,57. DID BORE AND
PIEZOMETER READINGS, ROAD TO TOWN SHUT AT 210,050 ML/DAY O
CARRIED OUT FIRST DAM INSPECTION AT 01:00 HRS ALL OK. 01:00 SE
INSPECTION SHEETS AND BORE READINGS TO GRAHAM HARGREAVES. 02:00
DAM EL 207,13 TAILWATER 204,57 ICEREASED FLOW TO 220,040 ML/
ALL SO DID DAM INSPECTION 04:00 HRS DAM EL 207,11 TAIL W
204,63 06:00 DAM EL 207,10 TAILWATER 204,64 DID BORES AND
PIEZOMETERS BA

RELEASED TO 225,030 ML/D AT 10:30 USEING T
COUNCIL GENERATOR. EVERYTHING O.K. READ PIEZOMETERS
BORES AT MID DAY. STEWART CLEANING WITH THE
SLASHER, MOWER & BRUSHCUTTER AT THE YOUTH CA
& PAT & NEV SETTING UP THE ACCOMIDATION. ALL
GATES ALONG THURAGGI CHANNEL FROM THE CARNARV
HIGHWAY TO THE MOONIE HIGHWAY WERE UNLOCKED [redacted]
TOWN WATER.

5Pm DAM EL 206.96 TW 204.73 6Pm DAM EL 206.96 TW 204.73
READ BORES AND PIEZOMETERS CARRIED OUT BANK INSPECTION SENT SHE
TO JOHN EATON. 7Pm DAM EL. 206.96 TW 204.73 8Pm DAM EL 206.96
TW 204.73 DAM HOLDING STEADY. 9Pm DAM EL 206.96 TW 204.74 10Pm
DAM EL 206.96 TW 204.76. 11Pm DAM EL 206.96 TW 204.76 DAM STE
ALL NIGHT. DID BANK INSPECTION - DROVE. 12 Pm DAM EL 206.96 TW 20 [redacted]

05-01-11

12:15 AM DAM EL 206.98 TAILWATER 204.75 DID BOR AND PIEZOMETER READINGS 01:00 START FIRST DAM INSPECT SENT SHEETS TO GRAHAM HARGREAVES. DAM EL 206.98 TAILWAT 204.75 02:00 AM DAM EL 206.99 TAILWATER 204.74 03:00 HRS DA 207,00 TAILWATER 204,74 STARTED 03:15 HRS RAINED TILL 04:00 HR RECORED 31 mm. 04:10 INCERCASED FLOW TO 230,020 DAM EL 20710. WATER 204,75 06:00 HRS DAM EL 207,00 TAILWATER 204,81 07:30 HRS DAM EL 207.11 TAIL WATER 204,85 INCERCASED FLOW TO 235,020 [illegible]. CONTINUE MONITORING DAM. INCREASED FLOW TO 240,0 AT 10AM. READ PIEZOMETERS & BORES AT MIDDAY. ERGON CUT POWER TO THE OFFICE AT 2PM. THE COMPUTER & REST THE BOOKWORK WAS MOVED TO THE MIDDLE HOUSE. INS. BANKS AT MIDDAY. [redacted]

5Pm DAM EL. 207.09 TW 205.05 6Pm DAM EL 207.09 TW. 205.05, READ BORE AND PIEZOMETERS INSPECTED BANKS 7Pm DAM EL. 207.11 TW 205.05 8Pm DA 207.12 TW 205.07 9Pm DAM EL. 207.14 TW 205.11 GATE CHANGE 245, GATE SETTINGS BY CHART 10Pm DAM EL. 207.14 TW 205.13 GATE CHAN 250,000 GATE SETTINGS BY CHART GATES 2,3,4 WERE ALREADY OUT C WATER 11Pm DAM EL 207.14 TW 205.15 GATE CHANGE 255,000 GA SETTINGS BY CHART. 12Pm. DAM EL. 207.14 TW 205.21 GATE CHANGE 260 GATE SETTING BY CHART. BANK INSPECTION DRONE AND TORCH. WORK MEN AND PAT MOVED IN TO YOUTH CAMP AT BEARDMORE DAM. [redacted]

06-01-11

12:15 AM DAM EL 207,12 TAILWATER 205,22 READ BORES A PIEZOMETERS 01:00 AM DAM 207,13 TAILWATER 205,23. INCE FLOW TO 268,270 ML/D 02:00 AM EL 207,11 TAILWATER 205,29 0 DAM EL 207,11 TAIL WATER 205,29 04:00 HRS DAM EL 207,12 TAILWATER 2 INCERCASED FLOW TO 276,730 ML/D DID DAM INSPECTION ON HOUR ON THE HOUR. 05:00 AM DAM EL 206,99 TAILWATER 205,39 06:00 AM DAM EL 206,99 TAILWATER 205.37 READ BORES AN PIEZOMETERS 07:00 HRS DAM E 207,00 TAILWATER 205,39

INCREASED FLOW TO 282,800 ML/D BY THE NEW CHA AT 09:00 HRS & THEN TO 289,360 ML/D AT 11:30 HRS. INCR FLOW TO 295,500 ML/D AT 15:00 HRS. THE NEW CHAR TO BE USED FROM 282,800 ML/D. CHECKED BANKS & W WARNS. READ PIEZOMETERS & BORES & TOOK PHOT AT MID DAY. GENERATOR SET UP TO POWER THE TOWN WATER SYSTEM. [redacted]

CIU

06-01-11

5Pm DAM EL. 206.98 TAILWATER 205.60 6Pm. READ BORES & PIEZOME BANK INSPECTION DAM EL. 207.00 TAILWATER 205.60 REMOVED GENERATOR FROM WORKSHOP TURNED COMPUTER OFF. 7Pm. DAM EL. 207.11 TW. 205.60 8Pm DAM EL. 207.12 TW 205.60 9Pm DAM EL. 207.14 TW 205.61 GATE CHANGE TO 301,570 GATES SET TO NEW CHAR RECORDED TIME AND CHANGE ON CHART. 10Pm DAM EL 207.13 TW 205.71 GATE CHANGE 307,200 GATES SET TO NEW CHART RECORDED TIM AND CHANGE ON CHART. BANK INSPECTION CARRIED OUT. GATE 10. GAUGE CATCHING ON GAUGE BOARD. 11Pm DAM EL. 207.12 TW 205.7 12Pm DAM EL. 207.12 TW 205.75.

[redacted]

07-01-11 1AM DAM EL: 207.13 TAILWATER 205.75. GATE CHANGE TO 313,260 READ BORES. PIEZOMETERS HUT UNDER WATER. BANK INSPECTION. MAIN GENERATOR FILLED WITH DIESEL. PIEZOM HUT FLOODED AT 313000 ML/D. 2AM DAM EL: 207.13 TAILWATER: 205.81 GATE CHANGE TO 318,750. 3.00AM DAM EL: 207.12 TAILWATER: 205.85 INCR FLOW TO 324,760. GENERATOR HUT FLOODED AT 318,750. 4.00AM EL: 20 TAILWATER: 205.89. 5.00AM DAM EL: 207.11 TAILWATER: 205.89. DAM BA INSPECTION. 6.00AM. DAM EL: 207.11 TAILWATER: 205.89. READ BORES. 7.00AM EL: 207.12 TAILWATER 205.90. INCREASE FLOW TO 3 WEATHER OBS DONE.

[redacted]

05:00 HRS. INCREASED FLOW TO THE LAST SETTING ON THE CHART. PAT FITZGERALD MADE UP A NEW CHART. 11:AM. INCREASED FLOW TO AN UNKNOWN VOLUME A PER NEW CHART. RECEIVED AN EMAIL FROM RON NEW AT APPROX MID DAY ASENT TO HIM STATING THAT "RODNEY NEIL HAD CALLE TO REPORT HIS METER (MEANING WERIBONE) IS READING INCORRECTLY. IN THE PAST THREE DAYS IT SAYS THE WATER HAS GONE DOWN 50CM BUT IN ACTUALITY HA GONE UP BY A METER." INCREASED FLOW AT 13:30 A BY THE NEW CHART. NEVILLE OUT & HOOKED UP THE LESLIE DAM GENERATOR TO THE SUBMERSABLE PUMP AT ROTORKS AT THURAGGI CHANNEL.

[redacted]

5Pm DAM EL 207.10 TW 206.04. SHUT DOWN WORKSHOP PUT GENERATOR ON BENCH 6Pm DAM EL 207.10 TW 206.04 READ BO PIEZOMETER HUT IN WATER DID NOT READ 7Pm DAM EL 207.10 TW. 206.04 DAM STEADY EXPECTED PEAK TOMORROW. 8Pm. DAM E 207.10 TW 206.04 9Pm DAM EL. 207.11 TW 206.05 10Pm DAM E 207.12 TW 206.04 FILLED GENERATOR AT DAM WALL 10.30Pm ENTERED IN INVENTRY BOOK. DROVE BANK INSPECTION. 11Pm DAM EL 207.13 TW 206.10 GATE CHANGE. GATE SET BY CHART APPROX 370,00 12Pm DAM EL 207.12 TW 206.10.

[redacted]

8-1-11

MIDNIGHT DAM EL: 207.11 TAILWATER: 206.10. READ BORES. 1.00 AM DAM EL.
TAILWATER 206.09. INSPECTED DAM EMBANKMENT. 2.00AM DAM EL 207
TAILWATER 206.09. DROPPED THURAGGI CHANNEL 200 MGS. 3.00 AM DAM
207.14 TAILWATER 206.11. GATE CHANGE TO NEXT SETTING. INSPECTED DAM
EMBANKMENT. 4.00 AM DAM E.L: 207.13 TAILWATER 206.15. GATE CHA
TO NEXT SETTING. 5.00AM DAM EL: 207.11 TAILWATER: 206.17.
6.00AM DAM EL: 207.12 TAILWATER 206.18 READ BORES. EMBANKM
INSPECTION. 7.00AM DAM EL 207.12 TAILWATER 206.18.
8.00 AM DAM EL: 207.12 TAILWATER 206.18. GATE CHANGE TO NEXT SETTING
[redacted]

08:00 HRS DID RELEASE BY THE CHART & ANOTHER!
10:00 HRS INSPECTED DAM EMBANKMENT & REA
BORES AT 12:00 HRS NEVILLE CHECKED THE TOP
LIMIT SWITCH ON GATES #2, #3, #4, #5. ALL WORKE
O.K. STEWART MOWING.
[redacted]

5Pm DAM EL 207.09 TW 206.24. 6Pm DAM EL 207.09 TW 206.
READ BORES CARRIED OUT BANK INSPECTION. 7Pm DAM EL 20
TW. 206.24 8Pm DAM EL. 207.09 TW 206.24 DAM STEADY.
9 Pm DAM EL 207.09 T.W. 206.24 FUELED GENERATOR REFILLED JERRY
CANS AND RETURNED. CARRIED OUT BANK INSPECTION. 10 Pm DAM EL 207
TW 206.24. 11Pm DAM EL 207.09 TW 206.24 12Pm DAM EL 207.
TW 206.24.
[redacted]

9/1/11 ~~12.30 AM~~ ~~MIDNIGHT~~ DAM EL: 207.00 TAILWATER 206.25. READ BORES. INSPE
DAM EMBANKMENT. 2.00AM DAM EL: 207.10 TAILWATER 206.25.
3.00 AM. DAM EL: 207.10 TAILWATER: 206.25 4.00AM EL: 207.11
TAILWATER: 206.25. 5.00 AM DAM EL: 207.11 TAILWATER 2
FILLED GENERATOR WITH DIESEL. CARRIED OUT BANK INSPECTION.
6.00AM DAM EL: 207.11 TAILWATER 206.25. READ BORES. INSPECTE
DAM EMBANKMENTS. 7.00AM DAM EL 207.11 TAILWATER 206.25
8.00AM DAM EL: 207.11 TAILWATER: 207.26
[redacted]

9AM. DAM E.L. 207.09. TAILWATER 206.25. STARTED TOPPI
TOWN WATER HIGH TANK. 10:00HRS DAM E.L. 207.10. TAILWA
206.25. 11:00HRS DAM E.L. 207.10; TAILWATER 206.25. 12:0
INSPECTED DAM EMBANKMENT, READ BORES & FUELED
GENERATOR. DAM E.L. 207.10. TAILWATER 206.25. 13:00
DAM E.L. 207.10. TAILWATER 206.25. 14:00HRS DAM E.L. 20
TAILWATER 206.25. 15:00HRS. DAM E.L. 207.10. TAILWATER
FUELED GENERATOR. 16:00 HRS. DAM E.L. 207.10. TAILWATER 206.
[redacted]

9-1-11

5Pm DAM EL. 207.09 TW 206.23 6Pm DAM EL 207.08 TW 206.2
READ BORES AND CARRIED OUT BANK INSPECTION 7Pm DAM 207.08 TW 206.2
8Pm. DAM EL. 207.07 TW 206.23 9Pm DAM EL 207.06 TW 206.23
10Pm DAM EL. 207.07 TW 206.23 CARRIED OUT BANK INSPECTION. 11 Pm
DAM EL. 207.07 TW 206.24 FUELED GENERATOR REFILLED JERRY CAN
AND REPLACED AT GENERATOR. DAM STEADY [redacted]

10-1-11

12 MIDNIGHT DAM EL: 207.07 TAILWATER 206.24. BORES READ
DAM BANK INSPECTION. 1.00AM DAM EL: 207.07 TAILWATER: 206.
2.00AM EL: 207.07 TAILWATER: 206.24 3.00AM DAM EL: 207.06 TW: 206.
4.00AM EL 207.06 TW 206.24. 5.00AM DAM EL: 207.06 TW: 20
WATER OVER ROAD AT 2nd GULLY ON SURAT RD. 6.00AM DAM EL: 207.
T.W: 206.22. FUELED GENERATOR, REFILLED JERRY CANS. CARRIED OUT
INSPECTION. READ BORES. 7.00AM EL: 207.03 T.W. 206.21. [redacted]

08:00HRS.

REDUCED FLOW BY LOWERING GATES #1; 6; 7; 8; 9; 10; 11;
BY 13CM EACH. DAM E.L 207.05. TAILWATER 206.16.
09:00HRS. DAM E.L 207.05. TAILWATER 206.14. REDUCED
BY LOWERING GATES #1; 6; 7; 8; 9; 10; 11; 12 BY 12CM EACH.
12:00HRS. CHECKED THE EMBANKMENT & WING WALLS. READ
BORES & FUELED GENERATOR. 16:00HRS. NO CHANGE IN LEV
DAM HOLDING STEADY. [redacted]

10-1-11

5Pm DAM EL 207.06 TW 206.08 6Pm DAM EL 207.06 TW 206
READ BORES BANK INSPECTION, RAINING. 7Pm DAM EL 207.06 TW
206.10, 8Pm DAM EL. 207.05 TW 206.10 9Pm DAM EL 207.03 TW
206.07 GATE CLOSURE GATE 1 AND 12 4.12 GATE 6 TO 11 4.42
~~10Pm~~ KEYS TAKEN FROM VEHICLE SPARE KEYS IN OFFICE CO
NOT BE FOUND, HAD TO DISTURB BILL AND GET HIS SET.
10Pm DAM E.L. 207.04 TW 206.05. BANK INSPECTION: 11Pm
DAM EL. 207.03 TW 206.05. GATE CLOSURE GATE 1+12 - 4.0
GATES 6+0 11 - 4.3 FUELED GENERATOR REFILLED JERRY CAN
AND REPLACED. 12Pm DAM EL 207.05 TW. 206.03. [redacted]

11/1/11

MIDNIGHT DAM EL: 207.05 TW: 206.03. READ BORES. INSPECT EMBANKM
1.00AM DAM EL 207.06 TW: 206.03. 2.00AM DAM EL: 207.05
TW: 206.03 3.00AM: DAM EL: 207.05 TW: 206.02 3.AM DAM
EL: 207.05 TW: 206.02 4.AM EL 207.03 TW: 206.02 (LOWER GATES AS PER CHART) 5 AM: EL DAM
TW: 205.98 6AM: EL: 207.04 TW: 205.97 7AM INSPECTION + READ BORES
7.00AM DAM EL: 207.03 TW: 205.97 GATE CLOSURE 1+12 3.75 GAT
6 to 11 4.05 [redacted]

08:00 HRS. DAM E.L. 207.09. TAILWATER 205.94.
10:00 HRS. DAM E.L. 207.03. TAILWATER 205.93. SHUT GATES #1 & #12 TO 3.62M & GATES 6-11 TO 3.92M. 12:00 HRS. DAM E.L. 2
TAILWATER 205.92. CLOSED GATES #1 & #12 TO 3.50M & GATES
TO 3.50M. DID BANK INSPECTION & READ BORES & FUEL
GENERATOR. 14:00 HRS. DAM E.L. 207.03. TAILWATER 205
CLOSED GATES #1 & #12 TO 3.37M & GATES #6-11 TO 3.67M.
16:00 HRS. DAM E.L. 207.03. TAILWATER 205.87. REDUCE
FLOW BY CLOSING GATES #1 & #12 TO 3.25M & GATES #6-11 TO 3.55M.

17.30 DAM EL 207.03 TAILWATER 205.84 SHUT GATES 1, 6, 7, 8, 9, 10, 11 & 1
18:00 READ BORE LEVELS EMAILED DATA INTO HS # 1017638. COMPLETED DAM INSPECTION.
19:00 FUELED GENERATORS. DAM EL 207.04 TAILWATER 205.80 SHUT GATES 1 TO
GATE 12 TO 3.00M, GATES 6-11 FROM 3.42 DOWN TO 3.30M
DAM EL AT 19:30 PM 207.06 TAILWATER 205.75 WERISONE GS 12.15M
CABHMGLE GS 3.31M.
23:00 FILLED DIESEL GENERATOR 42 LITRES DIESEL. 774 HOURS ON GENERATOR.
DAM EL 207.05 TAILWATER 205.75
24:00 EL 207.05 TAIL WATER 205.74

12-1-11
12:15 AM DAM EL 207,04 TAILWATER 205,75
BORES AND BANK INSPECTION. FUELED GENERATORS 1:00
DAM EL 207,04 TAILWATER 205,75 CLOSED GATES TO 307,26
MLID 1:00 AM DAM EL 207,05 TAIL WATER 205,67 02:0
DAM EL 207,06 TAILWATER 205,68 03:AM DAM EL 207,05 TAIL
205,67 04:00 AM DAM EL 207,04 TAILWATER 205,65 DID INSP.
OF EMBANKMENTS FUELED HOMERS GENERATORS UP 05:00 AM DAM EL
TAILWATER 205,65 DECREASED FLOW TO 301,570 MLID PUT 40 LTRS.
IN GENERATORS AND ONE LTR OIL 06:00 AM DAM EL 207,04 TAILWATER.
07:00 AM DAM EL 207,04 TAIL WATER 205,60
08:00. SHUT GATE #1 TO 2.57M, GATES 6-11 TO 2.92M & GATE
2.62M REDUCING FLOW TO 295,500. 09:00 HRS. DAM E.L. 20
TAILWATER 205.55. 10:00 HRS. DAM E.L. 207.06 TAILWATER.
11 AM. DAM E.L. 207.06 TAILWATER. 205.55. 12:00 HRS DAM EL
TAILWATER 205.55. WALKED BANKS & FUELED GEN SET.
INSPECTED STRUCTURE & WING WALLS. READ BORES. 13:00 HR
DAM E.L. 207.06 TAILWATER 205.53 14:00 HRS. DAM E.L. 207
TAILWATER 205.53. RAINING HEAVILY. 15:00 HRS. DAM E.L. 207
TAILWATER 205.51. REDUCED FLOW TO 289,360 M/D. #1, 2.45M.
#6-11. 2.8M. 16:00 HRS DAM E.L. 207.03 TAILWATER 205.46. SHU
GATE #1 & #12 TO 2.37M. GATES #2-11 2.67M. DID TOWN WATER

CCC

12.01-11

18:00 SHUT GATE #1 TO [redacted], 2.20m, GATES 2 TO 5 STAYED ON 5.45m GATES 6 TO 11 CHANGED TO 2.55m, GATE 12 TO 2.25m. DAM EL 207.03 TAILWATER 205. READ PIEZOMETERS AND OBSERVATION BORES, RECORDED ON DATA SHEETS. CONDUCTED DAM VISUAL INSPECTION. 19:00 HRS DAM EL 207.06 TAILWATER 205.35. 21:00 HRS DAM EL 207.05, TAILWATER 205.33. CONDUCTED DAM VISUAL INSPECTION, MONITORED LEFT & RIGHT WING FILLED OFFLINE GENERATORS. 20:00 HRS DAM EL 207.05 TAILWATER 205.33 23:30 DAM EL 207.04 TAILWATER 205.31, GATE #1 CHANGE TO 2.07, GATES 2 TO 4 NO CHANGE, GATES 6 TO 11 CHANGED TO 2.47m, GATE 12 CHANGE TO 2.17m [redacted]

13-1-11

012:15 DAM EL 207,05 TAILWATER 205,28 READ PIEZOMETERS AND BORES CARRIED OUT BANK INSPECTION 01:00 AM DAM EL 207 TAILWATER 205,27 02:00 AM DAM EL 207,05 TAILWATER 207,07 FLOW STILL AT 272,330 ML/D 03:00AM DAM EL 207,04 TAILWATER 2 04:00AM DAM EL 207,04 TAILWATER 205,27 DECREASED FLOW TO 268,27 05:00AM DAM EL 207,04 TAILWATER 205,22. DAM EL AT 6:00AM 207,03 TA WATER 205,22 DECREASED FLOW TO 260,010 ML/D CLEANED MUD FROM PIEZOME HUT READ BORES AND PIEZOMETERS. 07:00 AM DAM EL 207,05 TAILWATER 205 08:00 AM DAM EL 207,04 TAILWATER 205,18 [redacted]

14-1-11

0800 DAM EL 207.05 RESETTING GATES TO BRING INLINE WITH GATE SETTING CHART 250,000 ML (ESTIMATE) RESET GATES TO 240060 10.0 INSPECT SPILLWAY AREA, LEFT AND RIGHT BANKS, CHECKED GENERATOR FOR FUEL AND OIL TAILWATER READING 205.14
READ BORES AND PIEZOMETER'S. CHECKED BANKS AND SPILLWAY AREA VISUAL INSPECTIONS 1200 MIDDAY DAM EL 207.07
1400 HRS DAM EL 207.07 TAILWATER 205.04 VISUAL INSPECTION OF LEFT AND RIGHT BANKS AND SPILLWAY AREA
1600 HRS DAM EL 207.06 TAILWATER 205.03 VISUAL INSPECTION OF DAM SPILLWAY AREA, LEFT AND RIGHT BANKS AND TOES
REFILL GENERATOR, TOP UP HIGH WATER TANK TOWN WATER [redacted]

17:00 HRS DAM EL 207.05, TAILWATER 205.02. CHECKED GATE SETTINGS, MONITORED LEFT AND RIGHT WINGWALLS. 18:00 HRS READ PIEZOMETERS AND OBSERVATION BORES. CONDUCTED VISUAL INSPECTION OF DAM EMBANKMENTS LEFT & RIGHT, MONITORED WING WALLS - NO CHANGE. 19:00 HRS DAM EL 207.05 TAILWATER 205.02. DECREASED FLOW TO 235 020 ML. 20:00 HRS DAM EL 207.09 TAILWATER 204.87. 21:00 HRS DAM EL 207 TAILWATER 204.87. VISUAL INSPECTION OF EMBANKMENTS AND TOES. 22:00 HRS DAM EL 207. TAILWATER 204.87. 23:00 HRS DAM EL 207.06 TAILWATER 204.85 FILLED GENERATORS GENERATOR HOURS 822. [redacted]

223

14-1-11

12.15 AM DAM EL 207,08 TAIL WATER 204,84 READ BORES A
PIEZOMETERS DID FIRST DAM INSPEION 01:00AM DAM EL 207,08 TAIL
204,84 01:00 AM DAM EL 207,08 TAILWATER 204,82 02:00 AM DAM EL 20
TAILWATER 204,82 03:00 AM DAM EL 207,07 TAILWATER 204,82 0
AM DAM EL 207,05 TAILWATER 204,82. 05:00 AM DAM EL 207,04 TA
WATER 204,83 DECREASED FLOW TO 230,020 MLD 06:00 AM DAM EL 207
TAILWATER 204,75 READ BORES AND PIEZOMETERS AND INSPECTION OF D
07:00 AM DAM EL 207,06 TAILWATER 204,75 [redacted]

0800 DAM EL 207·06 TAILWATER 204·72 VISUAL INSPECTION OF SPILLWAY AREA, LEFT AND RIGHT BANKS, OPENED MOOLABAH WEIR T
0650 ML/DAY @ 0800HRS REDUCED RELEASE TO 225,000 @ 10·00HRS TAILWATER 204·70, REDUCED RELEASE TO 220,030 ML @ 1100 HRS
1200 VISUAL INSPECTION OF SPILLWAY AREA, LEFT AND RIGHT BANKS DOWNSTR
TOE OF DAM, READ BORES @ 1200 HRS TAILWATER 204·64
1300 DAM EL 207·07 TAILWATER 204·64 VISUAL INSPECTION OF SPILLWAY AREA, LEFT + RIGHT BANKS, DID TOWN WATER TEST (CHLORINE), READ PIEZOMETERS ~~AND BORES~~
1600 DAM EL 207·07 TAILWATER 204·64 TOPPED UP HIGH TANK TOWN WATER SUPPLY, LES MOWING VISUAL INSPECTION OF DAM AREA FILLED GENERATORS CHECKED OIL AND WATER. [redacted]

5 Pm DAM EL 207·05 TW 204·54 6 Pm DAM EL 207·04 TW 204·50 GATE CHANGE 215,000 BY CHART READ BORE AND PIEZOMETERS CARRIED OUT BANK INSPECTION. 7 Pm DAM EL 207·05 TW 204·47. 8 Pm DAM EL 207·05 TW 204 9 Pm DAM EL 207·04 TW 204·43 GATE CHANGE TO 210,000 B CHART CARRIED OUT BANK INSPECTION - DROVE. 10 Pm DAM EL 207. TW 204·46 FUELED GENERATOR AT OFFICE SHUT DOORS. 11 P DAM EL. 207·07 TW 204·35 FUELED GENERATOR AT DAM WALL REFILLED JERRY CANS AND REPLACED. 12 Pm DAM EL 207·07 TW 204·35. [redacted]

15-1-11

12:15 AM DAM EL 207,07 TAIL WATER 204,35 DID PIEZOMETE AND BORES 1:00 AM DAM EL 207,07 TAILWATER 204,33 STARTED TOWN WATE AND DAM INSPECTION 2:00 AM DAM EL 207,07 TAILWATER 204,34 3:00 A DAM EL 207,07 TAILWATER 204,33 CARRIED OUT BANK INSPECTION WAL 4:00 AM DAM EL. 207,06 TAILWATER 204,34 FUELED GENERATOR AT OF 5:00 AM DAM EL 207,04 TAILWATER 204,34 DECREASED FLOW TO 205 ML/D 06:00 AM READ BORES AND PIEZOMETERS. DID DAM INSPECTION 07:00 AM DAM EL 207,06 TAILWATER 204,26. [redacted]

15-1-11

4Pm ERECTED FENCE AND ROAD CLOSED SIGN TO LOOK OUT. 5Pm DAM EL 207.01 TW 204.07 GATE CHANGE TO 190,000 BY CHART 6Pm DAM EL 207.01 TW 203.05 NEXT BOARD DOWN 203.85 READ BORES AND PIEZOMETERS GATE CHANGE TO 185,000 BY CH WILL FILL OUT HAZARD REPORT FOR INSPECTION BY ENGINEERS PLATFORMS ON WALKWAY PLATFORM 6-3-2 SLABS CRACKE REO SHOWING ON PLATFORM 6. 7Pm DAM EL 207.04 TW 204.01 8Pm DAM EL 207.03 TW 203.85 NEXT BOARD 203.68 GATE CHANGE T 180,040 BY CHART. 9Pm DAM EL 207.05 TW 203.85 BANK INSPECTION FILLED GENERATOR AT OFFICE 10Pm. DAM EL 207.05 TW. MEASURED DOWN FROM GAUGE BOARD TO WATER LEVEL 203.80 COULD NOT FOCUS ON NEXT GAUGE BOARD. 11Pm DAM EL 207.05 TW. 203.75 FUELED GENERATOR AT DAM WALL FILLED JERRY C AND REPLACED 12Pm DAM EL 207.05 TW 203.75 [redacted]

16-1-11

12:15 DAM EL 207,05 TAILWATER 203,68 READ BORES AND PIEZOMETERS DID INSPECTION OF DAM AND BANKS. 01:00 AM DAM EL 207,05 TAI WATER 203,68. 2:00 AM DAM EL 207,04 TAILWATER 203,68 DECREASED F TO 175,010 ML/D 3:00AM DAM EL 207,07 TAILWATER 203,60 4:00 AM DAM EL 207,06 TAILWATER 203,60 5:00AM DAM EL 207,05 TAILWATER 203 6:00 AM DAM EL 207,05 TAILWATER 203,60 READ BORES AND PIEZOMETE FUELED UP GENERATOR AT DAM WALL AND FILLED JERRY CANS 7:00 AM DAM EL 207,06 TAILWATER 203,58

16-1-11

4Pm DAM EL 207.04 TW 203.75 5Pm DAM EL 207.00 TW 203 GATE CHANGE 160,000 BY CHART 6Pm DAM EL 207.04 TW 203.6 READ BORES AND PIEZOMETERS CARRIED OUT BANK INSPECTION 7Pm DAM EL 207.04 TW 203.28 FILLED GENERATORS AT OFFICE 8Pm DAM EL 207.04 TW 203.28 9Pm DAM EL 207.03 TW 203.2 10Pm DAM EL 207.01 TW 203.26 GATE CHANGE BY CHART 11Pm DAM EL 207.05 TW 203.26 FUELED GENERATOR AT WALL REFILLED JERRY CANS AND REPLACED FUELED HONDA GENERATOR AT OFFICE 12Pm DAM EL 207.05 TW 203.26. [redacted]

12:15AM 17-1-11 DAM EL 207.06 TW 203.13 READ BORES AND PIEZOMETERS. 01:00 DAM EL 207.06 TW 203.13. 0200 DAM EL 207. TW 203.13. 03:00 DAM EL 207.6 TW 203.13 04:00 DAM EL 207.05 TW 203.12 05:00 DAM EL 207.4 TAILW 203.08, 06:00 DAM EL 207.03 TAILWATER 203.08 FUELED GEN AT WALL REFILLED JERRY CANS, FUELED HONDA GENERATOR AT OFFICE AND READ BORES AND PIEZOMETERS. 0700 DAM EL 207.02 TAILWATER 2 GATE CHANGE BY CHART TO 150050 [redacted]

08:00 DAM E.L. 207.05. TAILWATER 203.07 TOOK PHOTOS. 09:00 DAM E.L. 207.05. TAILWATER 203.06. 10:00HRS. DAM 207.04. TAILWATER 203.04. 11:00HRS. 207.06. TAILWATER 2

CCJ

12:00 HRS. DAM E.L 207.06. TAILWATER 203.03. READ BO
& PIEZOMETERS. CHECKED BANK & WALL. FUELED GEN SET.
13:00 HRS DAM E.L 207.06. TAILWATER 203.02. 14:00 HRS
DAM E.L 207.04. TAILWATER 202.98. 15:00 HRS. E.L 207.03. TAILW.
202.98. CUT FLOW TO 145,060 MM/D AS PER CHART. FILLED FU.
CONTAINERS AFTER FUELING GEN & CHECKING OIL. EMPTIE.
HIGH FUEL TANK & STARTED USEING FUEL FROM 200 LTR DR
16:00 HRS. DAM E.L 207.05. TAILWATER 202.90.

17-1-11.

4Pm DAM EL 207.06 TW 202.100 BILL SHUT DOWN COMPUTER MOV
GENERATORS INTO SHED AND CLOSED. 5Pm DAM EL 207.06 TW 202
6Pm DAM EL 207.05 TW 202.05 READ BORES AND PIEZOMETERS CARI
OUT BANK INSPECTION 7Pm DAM EL 207.05 TW 202.05. 8Pm
DAM EL 207.05 TW 202.05 9Pm DAM EL 207.04 TW 202.04 10 P
DAM EL 207.05 TW 202.04 11Pm. DAM EL 207.04 TW 202.02 12 P.
DAM EL 207.04 TW 202.02 FUELED GENERATOR AT DAM WALL
REFILLED JERRY CANS AND REPLACED.

18-1-11

12.15 DAM EL 207.05 TAILWATER 202.90 01.00 DAM EL 207.05
TAILWATER 202.90. 02.00 DAM EL 207.04 TAILWATER 202.90
03.00 DAM EL 207.4 TAILWATER 202.90 04.00 DAM EL 207.4 TAILWATE
202.90 05.00 DAM EL 207.3 TAIL WATER 202.90 06.00 DAM EL 20
TAIL WATER 202.9 07.00 DAM EL 207.2 TAILWATER 202.85 GATE CHAN
BY CHART TO 140 020 GENERATOR REFUELED NEW.
08:00 DAM E.L 207.05. TAILWATER 202.93. TOOK PHOTOS.
09:00 DAM E.L 207.06. TAILWATER 202.91. 10:00 HRS. DAM E.
207.06. TAILWATER 202.91. 11:00 HRS. DAM E.L 207.06.
TAILWATER 202.89. 12:00 HRS. DAM E.L. 207.07 TAILWATER 2.
CARRIED OUT BANK INSPECTION. READ BORES & PIEZOMETE
13:00 HRS. DAM E.L. 207.07. TAILWATER 202.90. 14:00 HRS. DA
E.L 207.08 TAILWATER 202.89. 15:00 HRS. DAM E.L 207.0
TAILWATER 202.89. STOPPED GEN SET ON BANK & CHECKE.
OIL. ADDED ½ LTR. ALSO TOPPED UP WITH FUEL. 16:00 HRS.
E.L 207.10. TAILWATER 202.89. BOYS DOING 3M TOWN
WATER WORK ORDER

18-1-11.

4Pm DAM EL 207.10 TW 202.90 5Pm DAM EL 207.10 TW 202.9
6Pm DAM EL 207.11 TW 202.89 READ BORES AND PIEZOMETERS. CARR
OUT BANK INSPECTION. 7Pm DAM EL 207.12 TW 202.90 GATE CH
145,060 BY CHART. 8Pm DAM EL 207.11 TW 202.97. 9Pm DAM EL 2
TW 202.97. 10Pm DAM EL 207.11 TW 202.97 11Pm DAM EL 207.1
TW 203.05. GATE CHANGE TO 150,050 BY CHART FUELED GENERATOR A
DAM WALL. REFILLED JERRY CANS. 12 Pm DAM EL 207.11 TW 203.05.

220

19-1-11

12:15 AM DAM EL 207,10 TAILWATER 203,00 READ BORES AND PIEZO
DID VISUAL INSPECTION AND STORAGE REPORT WALKED LEFT AND RIGH
BANKS. CHECKED GENERATOR FOR OIL DAM FLOW RATE AT 150,050 ML/D
DAM EL 207,10 TAILWATER 203,00. 2:00 AM DAM EL 207,11 TAILWATER
3:00 AM DAM EL 207,11 TAILWATER 203,00 DAM STILL AT 150,050 m
4:00 AM DAM EL 207,12. TAILWATER 203.00 DID VISUAL INSPECTION
AND BANKS 05:00 AM DAM 207,08 TAILWATER 203,08 FUELED UP GENERAT
06:00 AM DAM EL 207,03 TAILWATER 203,05 INCERASED FLOW TO 15
CARRIED OUT VISUAL INSPECTION AND STORAGE REPORT READ BORES AND PIEZ
07:00 AM DAM EL 207,12 TAILWATER 203,05 [redacted]
08:00 HRS DAM E.L. 207.11 TAILWATER 203.07 TOOK PHOTOS.
09:00 HRS DAM E.L. 207.11 TAILWATER 203.08. 10:00 HRS DAM
207.13 TAILWATER 203.06. INCREASED FLOW TO 160,0
AS PER CHART. 11:00 HRS DAM E.L. 207.11 TAILWATER 203.16
12:00 HRS. DAM E.L. 207.11 TAILWATER 203.18 DID BANK INSP
READ BORES & PIEZOMETERS. FUELED GENERATOR.
13:00 HRS. DAM E.L. 207.11. TAILWATER 203.22. 14:00 HR
DAM E.L. 207.11 TAILWATER 203.24 15:00 HRS DAM E.L. 20
TAILWATER 203.24 FUELED GEN SET. [redacted]

19-1-11

4Pm DAM EL 207.14 TW 203.28 GATE CHANGE 165,080 GATE SET BY CH
5Pm DAM EL 207.13 TW 203.28 TOOK 200mg OUT OF THURAGGI CHANN
6Pm DAM EL 207.13 TW 203.30 READ BORES AND PIEZOMETERS CARRIE
OUT BANK INSPECTION 7Pm DAM EL 207.15 TW 203.38 GATE CHANG
TO 170,040 GATES SET BY CHART. 8Pm DAM EL 207.13 TW 203.44 9Pm
DAM EL 207.15 TW 203.50 GATE CHANGE TO 175,010 GATES SET BY
CHART. 10Pm DAM EL. 207.14 TW. 203.56 GATE CHANGE TO 180,040 GA
SET BY CHART. 11Pm DAM EL. 207.12 TW 203.60 12Pm DAM EL
207.12 TW 203.63. FUELED GENERATOR AT DAM WALL & REFILL
JERRY CANS. [redacted]

20-1-11 12:15 DAM EL 207,11 TAILWATER 203,62 READ BORES AN
PIEZOMETERS DONE FIRST VISUAL INSPECTION AND REPORT 01:00 AM
EL 207,12 TAILWATER 203.62 INCREASED FLOW TO 185.040 ML/D C
OIL IN GENERATOR AT DAM WALL 02:00 AM DAM EL 207,10 TAILWATER 203
3:00 AM DAM EL 207,10 TAILWATER 203,75 4:00 AM DAM 207,10
TAILWATER 203,75 05:00 AM DAM EL 207,11 TAILWATER 203,75
6:00 AM DAM EL 207,11 TAILWATER 203,75 READ BORES AND PIEZOM
DID VISUAL INSPECTION AND WALKED LEFT AND RIGHT BANKS. FUELED GE
REFILLED JERRY CANS 07:00 AM DAM EL 207,11 TAILWATER 203,75
[redacted]

08:00 HRS DAM E.L. 207.11 TAILWATER 203.75 TOOK PHOTOS
09:00 HRS. DAM E.L. 207.13 TAILWATER 203.77. INCREASE
FLOW TO 190,020 ML/D AS PER CHART. DID DAM INSPECTIO
EMBANKMENT & WINGWALL INSPECTION. 10:00 HRS. DAM E.L. 207.

TAILWATER 203·94 INCREASED FLOW TO 195,000 ML/D AS PER C
11:00 HRS. DAM E.L. 207·14 TAILWATER 203·99 INCREASED FLO
200,040 ML/D AS PER CHART. 12:00 HRS. DAM E.L. 207·11. TAI
204·08. CHECKED STRUCTURE & BANKS, READ PIEZOMET
& BORES. FUEL GENERATOR. 13:00 HRS. DAM E.L. 207·11. TA
204·08. 14:00 HRS. DAM EL 207.12 TAILWATER 204·11 15:00 HRS. D
E.L. 207·12. TAILWATER 204·12. FUELED GEN SET. 16:00 HRS.
E.L. 207·12. TAILWATER 204·12. DONNIE SERVICED COUNCIL G
GOT DIESEL. (APPROX 1500 LTRS) BRIAN VAUGHAN OUT HELPI
NEV. RE SETTING UP AUXILARY GENERATOR ON THE OLD BATC
MOUND. [redacted]

20-1-11

4Pm DAM EL 207·12 TW 204·12 5Pm DAM EL. 207·15 TW 204·17 G
CHANGE TO 205,030 GATES SET BY CHART. CARRIED OUT BANK INS
6Pm DAM EL. 7Pm DAM EL 207·13 TW 204·20 8Pm DAM EL 20
TW 204·22. 9Pm DAM EL 207·15 TW 204·27 GATE CHANGE 210,0
GATES SET BY CHART. 10Pm DAM EL 207·14 TW 204·33 GAT
CHANGE TO 215,020 GATES SET BY CHART. 11Pm DAM EL 20
TW 204·35. 12Pm DAM EL 207·12 TW 204·37 FUELED GENER
AT DAM WALL AND REFILLED JERRY CANS. [redacted]

21-1-11

12:15 AM DAM EL 207,11 TAILWATER 204,37 READ BOR
AND PIEZOMETERS DID VISUAL INSPECTION REPORT 01:00 AM DA
207,12 TAILWATER 204,36. INCERASED FLOW TO 220,040 02:00 AM
EL 207,11 TAILWATER 204,36 CHECKED STRUCTURE AND BANKS 03:00 AM
EL 207,11 TAILWATER 204,36 04:00 AM DAM EL 207,12 TAILWA
204,35 05:00 AM DAM EL 207,12 TAILWATER 207,35 06:00 DAM E
TAILWATER 207,35 INCERASED FLOW TO 225,030 ML/D READ BO
AND PIEZOMETERS DID VISUAL INSPECTION AND REPORT 07:00 AM
EL 207,09 TAILWATER 204,60 FUELED GENERATOR AT DAM WALL [redacted]
08:00 HRS. DAM E.L. 207·07 TAILWATER 204·66 TOOK PHOTOS.
09:00 HRS. DAM E.L. 207·09 TAILWATER 204·61 10:00 HRS. DA
207·09 TAILWATER 204·61. 11:00 AM. DAM E.L. 207·09. TAILWA
204·61 12:00 HRS. DAM E.L. 207·10 TAILWATER 204·61. REA
& PIEZOMETERS. CHECKED STRUCTURE, BANK & WING WALL
STOPPED GEN SET & CHECKED OIL & FUELED IT. 13:00 HRS
E.L. 207·11. TAILWATER 204·62. 14:00 HRS. DAM E.L. 20
TAILWATER 204·63. INCREASED FLOW TO 230,020 ML/D A
CHART. 15:00 HRS. DAM E.L. 207·11. TAILWATER 204·65. BRIA
VAUGHAN OUT TO PUT MAINS POWER BACK ON TO ALL PU
ABOUT 14:30 HRS. 1700 HRS EL 207.12 T/W 204·68 Release
increased to 235,020 Where it remained steady.

228

22-1-11

12:15 DAM RL 207.12 TAILWATER 204.78 READ BORES AND PIEZOMETERS DID VISUAL INSPECTION AND REPORT 01:00 AM DAM EL 207. TAILWATER 204.78 INCREASED FLOW TO 240060 ML/D 02:00AM DAM EL 207.08 TAILWATER 204.88. 03:00 AM DAM EL 207.09 TAILWATE 204.88 04:00AM DAM EL 207.09 TAILWATER 204.88 CARRIED OUT BANK INSPECTION 05:00 AM DAM EL 207.08 TAILWATER 204.88 06:00 DAM EL 207.09 TAILWATER 204.80 READ PIEZOMETERS AND BORES DID VISUAL INSPECTI AND REPORT. 7:00AM DAM EL 207.10 TAILWATER 204.90 [redacted] 08:00 DAM E.L. 207.10 TAILWATER 204.89. 09:00HRS DAM E.L. 207.1 TAILWATER 204.92 11:00 HRS DAM E.L. 207.12 TAILWATER 204.92. 12:00HRS DAM E.L. 207.12 TAILWATER 204.93. INCREASED FLOW 245,020 ML/D. READ BORES & PIEZOMETERS CHECKED STRUCTURE BANK & WING WALLS. 13:00HRS DAM E.L. 207.11 TAILWATER 204.98 14 DAM E.L. 207.11 TAILWATER 205.0 15:00HRS DAM E.L. 207.11 TAILWA 205.0. 16:00HRS DAM E.L. 207.11 TAILWATER 205.0 W. Taylor. 17.00 DAM EL 207.11 TAIL WATER 204.98 18:00 DAM EL 207.1 TAIL WATER 204.98 19:00 DAM EL 207.12 TAIL WATER 204.9 20.00 DAM RL 207.12 TAIL WATER 205 21:00 DAM E.L 207.1 TAIL WATER 205. 22:00 DAM E.L 207.12 TAIL WATER 205 23.00 DAM EL. 207.13 TAIL WATER 205. [redacted]

23-1-11

12:15AM DAM EL 207.14 TAILWATER 205.00 READ BORES AND PIEZOMETERS. DID VISUAL INSPECTION AND REPORT 1:00 DAM EL 207.14 TAILWATER 205.00 2:00AM DAM EL 207.14 TAIL WATER 205.00 INCREASED FLOW TO 250,000 ML/D 03:00 AM DAM E.L 207 TAIL WATER 205.03 INCREASED FLOW TO 255,020. 04:00AM DAM EL 207.13 TAIL WATER 205.06. 05:00AM DAM EL 207.14 TAILWATER 205.06. 6:00A DAM EL 207.14 TAILWATER 205.06 READ BORES AND PIEZOMETERS DI VISUAL INSPECTION AN STORAGE REPORT. 07:00AM DAM EL 207.14 TA WATER 205.06. [redacted] DAM EL 207.14 TAILWATER 205.07.

08:00HRS INCREASED FLOW TO 260,010 ML/D AS PER CHART. 09:00 DAM E.L. 207.14 TAILWATER 205.12 INCREASED FLOW TO 268,270 ML/D. 10:00HRS DAM E.L. 207.11 TAILWATER 205.15 11:00 HR DAM E.L. 207.10 TAILWATER 205.17 12:00HRS DAM E.L. 207.09 TAILWATER 205.17. CHECKED STRUCTURE, WINGWALLS & BANK READ PIEZOMETERS & BORES. 13:00HRS DAM E.L. 207.09 TAILWATE 205.17 14:00HRS DAM E.L. 207.08 TAILWATER 205.17 15:00HRS DA E.L. 207.08 TAILWATER 205.17 [redacted]

24.01.2011

12 Midnight. The dam remained static with EL 207.05 Tailwater 205.15 for the previous 8 hours. Bores read, piezometer read.

22

25-1-11

00:15 DAM EL 207.05 TAILWATER 205.15 BORES READ PIEZOMETER READ 01:00 DAM EL 207.04 TAIL WATER 205.15 02:00 DAM EL 207.04 TAIL WATER 205.15 03:00 DAM EL 207.04 TAIL WATER 205.15 04:00 DAM EL 207.04 TAILWATER 205 0500 DAM EL 207.03 TAIL WATER 205.14 0600 DAM EL 207.02 TAIL WATER 205.13 CHANGED GATES. BORES READ PIEZOMETER READ 07:00 DAM EL 207.04 TAIL WATER 205.1 [redacted] 08:00 HRS DAM E.L. 207.02 TAILWATER 205.03 REDUCED FLOW 260,010 ML/D AS PER CHART. 09:00 HRS DAM E.L. 207.03 TAIL WATE 205.03 10:00 HRS. DAM E.L. 207.02 TAILWATER 205.03 REDUCE FLOW TO 255,000 ML/D AS PER CHART. 11:00 HRS DAM E.L. 207.06 TAILWATER [illegible] 12:00 HRS. DAM E.L. 207.07 TAILWATER 205. READ BORES & PIEZOMETERS. CHECKED STRUCTURE, BANK. [illegible] 13:00 DAM E.L. 207.06 TAILWATER 205.0. 14:00 HRS. DAM [illegible] TAILWATER 205.0. 15:00 HRS. DAM E.L. 207.07 TAILWATER 20 DAM E.L. 207.07 TAILWATER 205.0. [redacted]

Dam E.L. 207.06 Tailwater 205.0. Checked structure, ba Read bores & Piezometers. Checked Wing walls etc. Earthquake measuring 3.6 became newsworthy. To photographs of structure etc. Water remained stationer from 16:00 hrs to 24 hrs. EL. 207.05, TL 205.0. [redacted]

25-1-11

00:15 DAM EL. 207.04 TAILWATER 205.0 BORES READ PIEZOMETER RE 01:00 DAM E.L. 207.04 TAIL WATER 204.97 02:00 DAM E.L. 207.04 TAIL WATER 204.97 03:00 DAM E.L. 207.03 TAIL WATER 204.9, 0400 DAM EL 207.03 TAILWATER 204.93 04:20 LOST POWER FOR 10 MIN. 05:00 DAM E.L. 207.03 TAIL WATER 204.93 06:00 DAM EL TAIL WATER 204.93 REDUCED FLOW TO 250,000 ML/D AS PER CHART. BORES READ PIEZOMETER READ 07:00 DAM E.L. 207.02 TAIL WATER 204.90 REDUCED FLOW TO 245,020 ML/D AS PER CHART. 08:00 DAM E.L. 207.02. TAILWATER 204.90. CUT FLOW TO 240, AS PER CHART. GATES #2, 3, & 4 JUST IN THE WATER. 09:00 DAM E.L. 207.02. TAILWATER 204.88. CUT FLOW TO 235,020 AS PER CHART. 10:00 HRS. DAM E.L. 207.07 TAILWATER 204. 11:00 HRS. DAM E.L. 207.07 TAILWATER 204.77 12:00 HRS. DAM 207.09. TAILWATER 204.78. READ BORES & PIEZOMETERS. CHECKED STRUCTURE, BANKS & WINGWALLS. 13:00 HRS. DAM E.L 207.10. TAILWATER 204.77. 14:00 HRS. DAM E.L. 207.10. TAIL WA 204.77 15:00 HRS. DAM E.L. 207.10. TAILWATER 204.77. 16:00 HR DAM E.L. 207.10. TAILWATER 204.77. BACKFLUSHED TOWN WATER FILTERS

CJU

25-1-11

4Pm DAM EL 207.10 TW. 204.77 5Pm DAM EL 207.09 T
204.77 6Pm DAM EL 207.09 TW 204.77 READ BORES AND PIEZOMET
BANK INSPECTION. 8Pm DAM EL 207.08 TW 204.77 9Pm DAM EL 207.0
TW 204.07 10Pm DAM EL. 207.07 TW 204.77 11Pm DAM EL 207.
TW 204.07 12Pm DAM EL 207.06 TW 204.77 DAM STEADY [redacted]

26-1-11

12:00 DAM EL 207.08 TAILWATER 204.74 READ BORES AND PIEZOMETERS. DID
VISUAL INSPECTION AND STORAGE REPORT 01:00 AM DAM EL 207.08 TAIL
204.74 DECREASED FLOW TO 230,030 ML/D 02:00 AM DAM EL 207.
TAILWATER 204.66 03:00 AM DAM EL 207.08 TAILWATER 204.66
AM DAM EL 207.07 TAILWATER 204.66 DECREASED FLOW TO 225,050
DID BANK INSPECTION 05:00 AM DAM EL 207.09 TAILWATER 204.62
AM DAM EL 207.09 TAILWATER 204.62 READ BORES AND PIEZOMETERS DAM
INSPECTION 07:00 AM DAM EL 207.09 TAILWATER 204.60 [redacted]
08:00 HRS. DAM E.L. 207.08. TAILWATER 204.60 09:00 HRS. DAM E.L. 207.
TAILWATER 204.60. 10:00 HRS. DAM E.L. 207.08. TAILWATER 204.59 CAR
OUT DAM INSPECTION, WING WALLS & BANKS. THE EMBANKMENT IS UNDE
MINING IN CLOSE PROXIMITY TO THE DEFOMATION SURVEY MARKER -
STREAM, RIGHT EMBANKMENT. ALSO SEVERE UNDERMINING AT THE
SCENIC LOOK OUT. OPPOSITE THE PUBLIC AMENTIES. 11:00 HRS. DAM
207.08. TAILWATER 204.59 12:00 HRS. DAM E.L. 207.07 TAILWATER
204.59 READ BORES & PIEZOMETERS. 13:00 HRS. ERECTED BAR
AROUND UNDERMINING AT THE LOOKOUT AS BEST WE COULD.
DECREASED FLOW TO 220,040 ML/D AS PER CHART. DAM EL 207.03 TA
WATER 204.58. 14:00 HRS. DAM E.L. 207.07. TAILWATER 204.56. 15:00
DAM E.L. 207.08. TAILWATER 204.45. [redacted]

26-1-11

4Pm DAM EL 207.08 TW 204.47 5Pm DAM EL 207.08 TW 204.47 6Pm BA
EL 207.08 TW 204.47 READ BORES AND PIEZOMETERS CARRIED OUT
BANK INSPECTION 7Pm DAM EL 207.06 TW 204.46 8Pm DAM EL 207.
TW 204.45 9Pm DAM EL 207.04 TW 204.44 10Pm DAM EL 207.
TW 204.41 GATE CHANGE TO 215,020 GATES SET BY CHART. 11
DAM EL. 207.04 TW 204.36 GATE CHANGE TO 210,050 GATES SET BY CHAR
12Pm. DAM EL 207.09 TW 204.31. [redacted]

27-1-11

12:15 AM. DAM EL 207.09 TAILWATER 204.29 READ BORES AND
PIEZOMETERS. VISUAL INSPECTION AND STORAGE REPORT 1:00 AM
DAM EL 207.09 TAILWATER 204.29 2:00 AM DAM EL 207.09 TA
WATER 204.29 CARRIED OUT BANK INSPECTION 03:00 AM DAM EL 207
TAILWATER 204.29 STARTED TOWN WATER 04:00 AM DAM EL 207.10 TAIL
204.27 05:00 AM DAM EL 207.09 TAILWATER 204.27 06:00 AM D
EL 207.09 TAILWATER 204.27 READ BORES AND PIEZOMETERS DID VIS
INSPECTION AND STORAGE REPORT. 07.00 Pm DAM EL 207.09
WATER 204.27 [redacted]

23.

27-1-11

8:00 HRS DAM EL 207.08 TAILWATER 204.27 RELEASING 210,000 ML/DAY TO J.T.W RELEASING 1000 ML/DAY TO MOOLABAH INSPECTION OF DAM SPILLWAY, LEFT + RIGHT HA HOURLY INSPECTION DAM SPILLWAY, LEFT + RIGHT B DAM AREA REDUCED RELEASE TO 205,000 ML/DAY. 1200 ML/DAY READ PIEZOMETERS + BORES TAILWA 1400 HRS DAM EL 207.05 TAILWATER 204.12 RELEASE TO 200,040 ML/DAY TO J.T.W HRS REDUCED RELEASE TO 195,000 ML/DAY TO J.T.W TAILWATER 204.05 [redacted]

DAM EL 207.07 TW 204.02 5PM DAM EL 207.07 TW 20 DAM EL 207.07 TW 203.98 READ BORES AND PIEZOMETERS CARRIED INSPECTION BAD BANK EROSION DOWNSTREAM FAR SIDE OF DAM DAM EL 207.07 TW 203.98 8PM DAM EL 207.07 TW 203.98 9PM DAM 207.07 TW 203.98 .10 PM DAM EL 207.06 TW 203.98 11 PM DAM 207.05 TW 203.97 11.30PM CHECK DAM EL 207.05 TW 203.98.

28-1-11

12:00 HRS DAM EL 207.05 TAIL WATER 203.95 READ BORES. PIEZOMETERS VISUAL INSPECTION AND STORAGE REPORT 01: DAM EL 207.05 TAIL WATER 203.95 02:00 AM DAM EL 207 TAIL WATER 203.95 DECREASED FLOW TO 190.020 ML/D.. HOURLY INSPECTION OF DAM AND BANKS. 03:00 AM DAM EL TAIL WATER 203.90 DECREASED FLOW TO 185.040 ML/D 04: DAM EL 207.04 TAIL WATER 203.80 DECREASED FLOW TO 18 ML/D 05:00 AM DAM EL 207.05 TAIL WATER 203.70 READ BORE PIEZOMETERS. VISUAL INSPECTION AND STORAGE REPORT 06: DAM EL 20705 TAIL WATER 203.65 HOURLY INSPECTION OF AND BANKS 07:00 AM DAM EL 207.05 TAIL WATER 203.6

28-1-11

0800 HRS DAM EL 207.05 TAILWATER 203.62 RELE 180,040 ML/DAY TO J.T.W RELEASING 1000 ML/DAY TO MOOLABAH WEIR INSPECT LEFT AND RIGHT HAND BANKS SPIL AREA AND SURROUNDINGS HOURLY INSPECTIONS CARRIED 1200 HRS DAM EL 207.08 TAILWATER 203.55 READ BORES AND PIEZOMETERS, MOWED AROUND BORE SITES AND OFFICE AR 1300 HRS DAM EL 207.06 TAILWATER 203.51 REDUCED RELEASE TO J.T.W TO 170,040 ML/DAY. 1500 HRS DAM EL 207.08 TAILWATER 203.45 [redacted]

28-1-11

4Pm DAM EL 207.08 TW 203.47 5Pm DAM EL 207.07 TW 203
6Pm DAM EL 207.06 TW 203.40 READ BORES AND PIEZOMETERS CARR
OUT BANK INSPECTION 7Pm DAM EL 207.05 TW 203.40 8Pm DAM EL 207.
TW 203.39 9Pm DAM EL 207.03 TW 203.38 GATE CHANGE TO 165,080
GATE CHANGE BY CHART. 10Pm DAM EL 207.05 TW 203.32 11 Pm DAM EL
207.04 TW 203.26 GATE CHANGE TO 160,020 GATE CHANGE BY CHART.
12Pm DAM EL 207.06 TW 203.22. [redacted]

29-1-11

12:00 DAM EL 207.06 TAILWATER 203.22 READ BORES PIEZOMET
VISUAL INSPECTION AND STORAGE REPORT 1:00AM DAM EL 20706 TAILW
20322 DECREASED FLOW TO 155,010ML/D 02:00 AM DAM EL 207.10 TAILW
203.10 03:00 AM DAM EL 207.10 TAILWATER 203.10 4:00 AM DAM
207.10 TAILWATER 203.10 05:00am DAM EL 207.09 TAILWATER 203
06:00 DAM EL 207.09 TAILWATER 203.07 READ BORES PIEZOMETERS DO
VISUAL INSPECTION OF DAM AND STORAGE REPORT 07:00 AM DAM EL 207
TAIL WATER 203.06. [redacted]

29-1-11

0800HRS DAM EL 207.08 TAILWATER 203.06 RELEASING
155,010 ML/DAY TO J.T.W, 1100ML/DAY TO MOOLABAH WEIR
VISUAL INSPECTION OF LEFT + RIGHT HAND BANKS SPILLWAY
AND SURROUNDING AREAS HOURLY INSPECTIONS CARRIED OUT.
10.00HRS DAM EL 207.06 TAILWATER 203.04 REDUCED RELEASE
J.T.W TO 150,050 ML/DAY 1200 HRS DAM EL 207.07
TAILWATER 203.00 READ BORES AND PIEZOMETERS
1300 HRS DAM EL 207.06 TAILWATER 202.97 REDUCED RELEASE
TO J.T.W TO 145,060 ML/DAY 1600HRS DAM EL 207.08
TAILWATER 202.95 [redacted]

29-1-11

4Pm DAM EL 207.08 TW 202.95. 5Pm DAM EL 207.06 TW 202.93 DAM
6Pm 207.04 TW 202.92 READ BORES AND PIEZOMETERS BANK INSPECT
GATE CHANGE TO 140,020 GATES SET BY CHART. 7Pm DAM EL 207.06 TW 20
8Pm DAM EL 207.05 TW 202.84 9Pm DAM EL 207.04 TW 202.80 GATE CHANG
TO 135,030 GATE SET BY CHART. 10Pm DAM EL 207.06 TW 202.73. 11
DAM EL. 207.06 TW 202.70 12Pm DAM EL 207.06 TW 202.68 [illegible]

30-1-11

12:00 AM DAM EL 207.06 TAILWATER 202.68 READ BORES PIEZOMETE
AND VISUAL INSPECTION STORAGE REPORT 01:00 AM DAM EL 207.06
TAIL WATER 202.68 DECREASED FLOW TO 130,000 ML/D 02:00 AM
EL 207.06 TAIL WATER 203.59 DECREASED FLOW TO 124.999 ML/D 03
AM DAM EL 207.08 TAIL WATER 202.48 04:00AM DAM EL 207.07 TAILWA
202.45 DECREASED FLOW TO 120,040 ML/D 05:00AM DAM EL 207.11 TAILWA
202.35 06:00AM DAM EL 207.11 TAIL WATER 202.33 READ BORES PIEZOMETER
DAM INSPECTION 07:00AM DAM EL 207.11 TAIL WATER 202.33 [redacted]

[illegible]-1-11

0800 HRS DAM EL 207.12 TAILWATER 202.33 RELEASING 120,040 ML/DAY TO J.T.W. AND 1150 ML/DAY TO MOOLABAR WALL INSPECT RIGHT AND LEFT HAND BANKS SPILLWAY AREA A [illegible] MANUALLY INSPECTION'S CARRIED OUT CLEANED OU [illegible] PUBLIC TOILETS COMPLETELY LIRE [illegible] MOOLABAR TO 850 ML/DAY @ 10.00 HRS. [illegible] TAILWATER 202.25. 1200 HRS [illegible] TAILWATER 202.23 CHECKED PIEZOMETER AND BO 1400 HRS DAM EL 207.09 TAILWATER 202.20 REDUCED RELEA [illegible] TO 115,040 ML/DAY. [illegible] EL 207.10 TAILWATER 202.15 [redacted]

[illegible] DAM EL. 207.09 TW 202.14 5Pm DAM EL 207.08 TW 2 [illegible] CHANGE TO 110,050 BY CHART. 6Pm DAM EL 207.100 TW 201. READ BORES AND PIEZOMETERS CARRIED OUT BANK INSPECTION 7Pm BA EL 207.09 TW 201.94 8Pm DAM EL 207.08 TW 201.93 9Pm DAM EL 207 TW 201.90 GATE CHANGE TO 105,010 GATE CHANGES BY CHART. 10Pm DA 07.07 TW 201.83 GATE CHANGE TO 100,010 GATE CHANGES BY CHART. 11 DAM EL 207.100 TW 201.70 12Pm DAM EL 207.100 TW 201.67 [redacted]

[illegible]-1-11

0015 DAM E.L. 207.10 TAILWATER 201.67 BORES READ PIEZOMETER READ. 01.00 DAM EL. 207.10 TAILWATER 201.67 0200 DAM EL 207.10 TA WATER 201.67 0300 DAM E.L 207.09 TAILWATER 201.67 0400 DAM E.L. 20 TAILWATER 201.67 05.00 DAM E.L. 207.07 TAILWATER 201.67 GATES CHANGED BY CHART TO 95,060ML 0600 DAM E.L. 207.07 TAILWATER 20 GATES CHANGED BY CHART TO 90010ML BORES READ & PIEZOMETER READ. 0700 DAM EL. 207.07 TAILWATER 201.40 GATES CHANGED BY CHART [illegible] 85,040 ML [redacted]

WATER RELEASES FOR THE MONTH HAVE BEEN RECORDED [illegible] HUMMINGBIRD ON THE COMPUTER AT BEARDMORE DAM. THE MA DAILY RELEASE WAS 310,000 ML ON 8-1-11. PIEZOMETER & BOR READINGS HAVE BEEN COLLECTED & ENTERED INTO HUMMINGBIRD S.N.I.M.S. 08:00 HRS. DAM E.L. 207.11. TAILWATER 201.18. 09 DAM E.L. 207.11. TAILWATER 201.15. 10:00 HRS. DAM E.L. 207.11. WATER 201.14. 11:00 HRS DAM E.L. 207.11. TAILWATER 201.1 12:00 HRS DAM E.L. 207.11. TAILWATER 201.13. CARRIED OUT INSPECTION & TOOK PHOTOS. READ PIEZONETERS & BORES. DAM E.L. 207.10. TAILWATER 201.12. 14:00 HRS DAM E.L. 207 TAILWATER 201.12. 15:00 HRS. DAM E.L. 207.09. TAILWATER 2 16:00 HRS DAM E.L. 207.08. TAILWATER 201.08. REDUCED TO 80,020 ML/D AS PER CHART. [redacted]

C 34

31-1-11

4Pm DAM EL 207.08 TW 201.08 GATE CHANGE TO 80,020 GATES SET BY CHART. 5Pm DAM EL. 207.06 TW 200.87 GATE CHANGE TO 75,020 GATES SET BY CHART. INCREASED FLOW TO THURAGGI CHANNEL BY 15 SECONDS EACH GATE. 6Pm DAM EL 207.07 TW 200.83 GATE CHANGE TO 70,010 GATES SET BY CHART. READ BORES AND PIEZOMETERS CARRIED OUT BANK INSPECTION. 7Pm DAM EL 207.09 TW 200.80 8Pm DAM EL 207.100 TW 200.57 9Pm DAM EL 207.100 TW 200.57 10Pm DAM EL 207.100 TW 200.53 11Pm DAM EL 207.100 TW 200.53 12Pm DAM EL 207. TW 200.

[redacted]

01-2-11

0015 DAM EL. 207.10 TW 200.53 BORES AND PIEZOMETERS READ 0100 DAM EL. 207.08 TAILWATER 200.53 GATES CHANGED BY CHART TO 65,020 ML/DAY 0200 DAM EL. 207.09 TAIL WATER 200.4 GATES CHANGED BY CHART TO 60,100 ML/DAY 0300 DAM EL. 207.10 TAIL WATER 200.25 0400 DAM EL. 207.10 TAIL WATER 200.25 0500 DAM EL. 207.10 TAIL WATER 200.25 0600 DAM EL 207.10 TAIL WATER 200.15 BORES AND PIEZOMETERS READ 07:00 DAM EL. 207.10 TAIL WATER 200.15

[redacted]

08:00 HRS DAM E.L. 207.10. TAILWATER 200.13 09.00 HRS. DAM EL. 207.07 TAILWATER 200.13. 10:00 HRS. DAM E.L. 207.07. TAIL WATER 199.95. CUT FLOW TO 55,090 ML/D AS PER CHART. 11:00 HRS. DAM E.L. 207.07. TAILWATER 199.93. 12:00 HRS. DAM E.L. 207.06 TAILWATER 199.90. CUT FLOW TO 50,030 ML/D AS PER CHART. READ BORES & PIEZOMETERS. INSPECTED BANKS. 13:00 HRS. DAM E.L. 207.06. TAILWATER APPROX 199.90. GUAGE BOARD IS MISSING. 14:00 HRS DAM E.L. 207.07. TAILWATER APPROX 199.90. CUT FLOW TO 45,020 ML/D AS PER CHART. READ FOUNDATION PRESSURE GUAGES. BACKFLUSHED TOWN WATER FILTERS. BOYS TOOK 3 DRUMS OF DIESEL TO THE DEPOT.

[redacted]

2-2-11

08:00 HRS DAM EL 207.05 GUAGE BOARDS MISSING NO TAIL WATER READINGS. DECREASED FLOW TO 39,040 ML/D 09.00 HRS DAM EL 207.08 DECREASED FLOW TO 25,030 ML/D 10.00 HRS DAM EL 207.09 11:00 AM DAM 207.08 DECREASED FLOW TO 20,060 ML/D NEV AND BOMAS HERE TO PUT GENERATOR BACK IN HUT DAN FROM WORK HORSE HERE TO HELP. STARTED FLOOD CLEAN UP. HELPED NEV WITH GENERATOR.

[redacted]

3-2-11

08:00 DAM EL 207.04 FLOW RATE AT 20,060 ML/D DECREASED FLOW TO 15,020 ML/D STARTED TOWN WATER WORK HORSE DAN SLASHING. LEFT HAND BANK. MOOLABAH SET ON 1,000 ML/D. 11.00AM DAM EL 207.04 BANJO RANG TO SET FLOW AT 10,040 ML/D. 15:00 HRS DAM EL 207.04 BANJO RANG TO DECREASED FLOW TO 5060 ML/D 16.00 HRS FLOW [redacted] ML/

[redacted]

Beardmore Dam Event Report

Emergency Event Recording Sheets

- **Earthquake Incident Report.**

EMERGENCY EVENT RECORD

COMPLETE THIS COVER SHEET AND ATTACH RELEVANT RECORDING SHEETS FROM SECTION 6.

7. **NATURE OF THE EVENT** (circle the event)

Spillway discharge [Earthquake] Piping Water Quality Terrorist Activity

Commencing: Time 05:40 AM, Date 24/01/2011. **Finishing:** Time Unknown, Date 24/01/2011

8. **DESCRIPTION OF THE EVENT**

Attach relevant sheets from Section 6.

A Seismic Earthquake was recorded at approximately 80 kilometres West of St George along the Castlereagh Highway, it was recorded at 05:40 am on Monday 24th January measuring 3.6 on the Richter scale.

Beardmore Dam day shift personnel conducted a through infrastructural dam surveillance condition monitoring on Tuesday the 24th January at 12:00 am upon being informed of the incidents occurrence.

Nil embankment slumping, concrete structural movement, asset damage or structural misalignment was reported. Inspection report was faxed to Infrastructure Management, Asset Management, Dam Safety group.

See attached reports.

Earthquake rattles St George

Elizabeth Stafford | The Courier-Mail | January 24, 2011 10:34AM | 7 comments Share

Recommend 131 recommendations. Sign Up to see what your friends recommend. 10 retweet Share

AN earthquake in central southwest Queensland early this morning has left residents feeling slightly rattled.

At 5:40am (AEST) an earthquake measuring 3.6 on the Richter scale occurred between Dirranbandi and St George, about 500km southwest of Brisbane.

Australian Seismological Centre director Kevin McCue said the earthquake was big enough to do minor non-structural damage to local properties and felt out to a distance of 30km or 40km.

"It wouldn't have been enough to wake people up but anyone who's a light sleeper or awake would have felt a slight rattle," he said.

"Local farmers may have had minor cracks in their homes near the epicentre."

The earthquake was measured on seismographs as far as northern South Australia.

Mr McCue said the area is well-known to seismologists because of a magnitude 5.3 earthquake in 1954, although small earthquakes are generally recorded every four to five years.

Queensland's largest earthquake, a magnitude 6, was recorded near Rockhampton in 1918, in the same year as the largest flood in that area.

Same Information as for (Earthquake

EJ BEARDMORE DAM EAP — Flood Operation

Visual Inspection and Storage Report
Note: Refer to Page 2 for recording instructions **

Date: 24.01.11

	SUN	MON	TUE	WED	THU	FRI	SAT
Stored Water Level FSL 207.12 m		207.02					
Tail Water Level m		205.03					
Daily Rainfall (mm) Morning 9am							
Evening 3pm							

	STAGE 1 Complete Table 1 (Pg 3 - Record of Gate Operation)	STAGE 2, 3, 4, 5 and 6 Complete Tables 1 & 2 (Pgs 3 & 4) and Visual Inspection section		
	Gauging Station	Beardmore	Cashmere	Weribone
	Morning 9 am	207.02	2.08	12.34
	Evening 3 pm	207.07	2.07	12.27

Visual Inspection	First Inspection 2:00	Second Inspection (+6 hrs)	Third Inspection (+12 hrs)
Visual Inspection (Walk OR Drive at 10 km/hour. Write 'W' for walk and 'D' for Drive)	W	D/W	D/W
Spillway Gate / Dissipator Erosion, damage to concrete, misalignment of gates	Nil	Nil	Nil
Irrigation Control Structure Cracks, concrete deterioration	Nil	Nil	Nil
Embankments Left Embankment: Cracks, subsidence in pavement	Nil	Nil	Nil
Right Embankment: Cracks, subsidence in pavement	Nil	Nil	Nil
Upstream Face: (Use binoculars) Settlement	Nil	Nil	Nil
Displacement of riprap material	Nil	Nil	Nil
Downstream face: Subsidence, slides, erosion	Nil	Nil	Nil
Sign of seepage	Nil	Nil	Nil
Area Downstream of Dam: Seepage from any location apart from seepage pt:	Nil	Nil	Nil
Lower Gallery Access: (Inspect if it is safe to do so) Cracks, seepage increase			
Seepage: Seepage water Clear or Turbid (Tick for clear)			
Jack Taylor Weir By St. George Office	Gate Fully open	Gates ..... % open	
Erosion, damage to concrete			

Details of significant changes. New occurrences and matter warranting further attention .....

.....

.....

Inspecting Officer's initials [redacted]

Fax to (tick if faxed)

Asset Engineering Manager / Service Delivery Manager [redacted]

Principal Engineer (Dam Safety) [redacted]

SunWater
Section 6A: Page 1 of 5
Jan 08, Issue 2-1

Beardmore Dam Event Report

Emergency Event Recording Sheets

- **Log of events / Action Sheets**

EMERGENCY ACTION PLAN - E J BEARDMORE DAM

Beardmore DAM EAP — **Sheet 1 (Flood Operation)**

Visual Inspection and Storage Report
Note: See reverse side for instruction**

Date: 5-12-10

05-12-10

	SUN	MON	TUE	WED	THU	FRI	SAT
Stored Water Level F.S.L **207.12**m.	207.11						
'Tail Water Level m.	197.85						
Daily Rainfall (mm) Morning 9am							
Evening 3pm							

STAGE 1 Fill Table 1 (Record of Gate Operation)	STAGE 2, 3, 4, 5 and 6 Fill Table 1 & 2 and Visual Inspection sheet (Frequency **)		
Gauging Station	**Beardmore**	**Cashmere**	**Weribone**
Morning 9 am			
Evening 3pm			

Visual Inspection	First Inspection	Second Inspection (+6 hrs)	Third Inspection (+12 hrs)
Visual Inspection (Walk OR Drive at 10 km/hour. Write 'W' for walk and 'D' for Drive)	W		
Spillway Gate / Dissipator			
Erosion, damage to concrete, misalignment of gates	✓		
Irrigation Control Structure			
Cracks, concrete deterioration	✓		
Embankments			
Left Embankment: Cracks, subsidence in pavement	✓		
Right Embankment: Cracks, subsidence in pavement	✓		
Upstream Face: (Use binoculars)			
Settlement	✓		
Displacement of riprap material	✓		
Downstream face:			
Subsidence, slides, erosion	✓		
Sign of seepage	✓		
Area Downstream of Dam:			
Seepage from any location apart from seepage pt:	✓		
Lower Gallery Access: (Inspect if it is safe to do so)			
Cracks, seepage increase	✓		
Seepage: Seepage water Clear or Turbid (Tick for clear)			
Jack Taylor Weir — **By St. George Office**	Gate Fully open	Gates ..... % open	
Erosion, damage to concrete			

Details of significant changes. New occurrences and matter warranting further attention .....

N/A

Inspecting Officer's initial [redacted]

(tick if faxed) Fax to

- Technical Services Engineer [redacted]
- Manager Operations Ipswich [redacted]
- Manager Dam Safety [redacted]

SunWater
Section 6A: Page 1 of 5
Dec 05, Issue 2-0

EMERGENCY ACTION PLAN - E J BEARDMORE DAM

Beardmore DAM EAP — **Sheet 1 (Flood Operation)**

Visual Inspection and Storage Report
Note: See reverse side for instruction**

Date: 6.12.10

	SUN	MON	TUE	WED	THU	FRI	SAT
Stored Water Level F.S.L **207.12**m.		207.13					
'Tail Water Level m.		195.34					
Daily Rainfall (mm) Morning 9am							
Evening 3pm							

STAGE 1 Fill Table 1 (Record of Gate Operation)	STAGE 2, 3, 4, 5 and 6 Fill Table 1 & 2 and Visual Inspection sheet (Frequency **)		
Gauging Station	Beardmore	Cashmere	Weribone
Morning 9 am	207.13	4.5.4/6	8.751
Evening 3pm			

Visual Inspection	First Inspection	Second Inspection (+6 hrs)	Third Inspection (+12 hrs)
Visual Inspection (Walk OR Drive at 10 km/hour. Write 'W' for walk and 'D' for Drive)	W ✓		
Spillway Gate / Dissipator			
Erosion, damage to concrete, misalignment of gates	C ✓		
Irrigation Control Structure			
Cracks, concrete deterioration	C ✓		
Embankments			
Left Embankment: Cracks, subsidence in pavement	C ✓		
Right Embankment: Cracks, subsidence in pavement	C ✓		
Upstream Face: (Use binoculars)	C ✓		
Settlement	C ✓		
Displacement of riprap material	C ✓		
Downstream face:			
Subsidence, slides, erosion	C ✓		
Sign of seepage	C ✓		
Area Downstream of Dam:			
Seepage from any location apart from seepage pt:	C ✓		
Lower Gallery Access: (Inspect if it is safe to do so)			
Cracks, seepage increase	C ✓		
Seepage: Seepage water Clear or Turbid (Tick for clear)	C ✓		
Jack Taylor Weir **By St. George Office**	Gate Fully open	Gates ..... % open	
Erosion, damage to concrete	—		

Details of significant changes. New occurrences and matter warranting further attention ....N/A....

Inspecting Officer's initial [redacted]

(tick if faxed) Fax to
- Technical Services Engineer [redacted]
- Manager Operations Ipswich [redacted]
- Manager Dam Safety [redacted]

SunWater
Section 6A: Page 1 of 5
Dec 05, Issue 2-0

EMERGENCY ACTION PLAN - E J BEARDMORE DAM

Beardmore DAM EAP — **Sheet 1 (Flood Operation)**

Visual Inspection and Storage Report
Note: See reverse side for instruction**

Date: 7.12.10

	SUN	MON	TUE	WED	THU	FRI	SAT
Stored Water Level F.S.L 207.12m.			207.12				
Tail Water Level m.			199.23				
Daily Rainfall (mm) Morning 9am							
Evening 3pm							

STAGE 1 Fill Table 1 (Record of Gate Operation)	STAGE 2, 3, 4, 5 and 6 Fill Table 1 & 2 and Visual Inspection sheet (Frequency **)		
Gauging Station	Beardmore	Cashmere	Weribone
Morning 9 am		5232	5566
Evening 3pm			

Visual Inspection	First Inspection	Second Inspection (+6 hrs)	Third Inspection (+12 hrs)
Visual Inspection (Walk OR Drive at 10 km/hour. Write 'W' for walk and 'D' for Drive)	D	W	
Spillway Gate / Dissipator			
Erosion, damage to concrete, misalignment of gates	✓	✓	
Irrigation Control Structure			
Cracks, concrete deterioration	✓	✓	
Embankments			
Left Embankment: Cracks, subsidence in pavement	✓	✓	
Right Embankment: Cracks, subsidence in pavement	✓	✓	
Upstream Face: (Use binoculars)	✓	✓	
Settlement	✓	✓	
Displacement of riprap material	✓	✓	
Downstream face:			
Subsidence, slides, erosion	✓	✓	
Sign of seepage	✓	✓	
Area Downstream of Dam:			
Seepage from any location apart from seepage pt:	✓	✓	
Lower Gallery Access: (Inspect if it is safe to do so)			
Cracks, seepage increase	✓	✓	
Seepage: Seepage water Clear or Turbid (Tick for clear)	✓	✓	
Jack Taylor Weir By St. George Office	Gate Fully open	Gates ..... % open	
Erosion, damage to concrete			

Details of significant changes. New occurrences and matter warranting further attention ....N/A....

Inspecting Officer's initial [redacted]

(tick if faxed) Fax to
- Technical Services Engineer [redacted]
- Manager Operations Ipswich [redacted]
- Manager Dam Safety [redacted]

SunWater
Section 6A: Page 1 of 5
Dec 05, Issue 2-0

EMERGENCY ACTION PLAN - E J BEARDMORE DAM

Beardmore DAM EAP — **Sheet 1 (Flood Operation)**

Visual Inspection and Storage Report
Note: See reverse side for instruction**

Date: 07.12.10

	SUN	MON	TUE	WED	THU	FRI	SAT
Stored Water Level F.S.L 207.12m.			207.12				
'Tail Water Level m.			199.23				
Daily Rainfall (mm) Morning 9am			0				
Evening 3pm			0				

STAGE 1 Fill Table 1 (Record of Gate Operation)	STAGE 2, 3, 4, 5 and 6 Fill Table 1 & 2 and Visual Inspection sheet (Frequency **)		
Gauging Station	**Beardmore**	**Cashmere**	**Weribone**
Morning 9 am			
Evening 3pm		8.22	8.65

Visual Inspection	First Inspection	Second Inspection (+6 hrs)	Third Inspection (+12 hrs)
Visual Inspection (Walk OR Drive at 10 km/hour. Write 'W' for walk and 'D' for Drive)		D	
Spillway Gate / Dissipator			
Erosion, damage to concrete, misalignment of gates		✓	
Irrigation Control Structure			
Cracks, concrete deterioration		✓	
Embankments			
Left Embankment: Cracks, subsidence in pavement		✓	
Right Embankment: Cracks, subsidence in pavement		✓	
Upstream Face: (Use binoculars)			
Settlement		✓	
Displacement of riprap material		✓	
Downstream face:			
Subsidence, slides, erosion		✓	
Sign of seepage		✓	
Area Downstream of Dam:		✓	
Seepage from any location apart from seepage pt:		✓	
Lower Gallery Access: (Inspect if it is safe to do so)			
Cracks, seepage increase			
Seepage: Seepage water Clear or Turbid (Tick for clear)			
Jack Taylor Weir — **By St. George Office**	Gate Fully open	Gates ..... % open	
Erosion, damage to concrete			

Details of significant changes. New occurrences and matter warranting further attention N/A

Inspecting Officer's initial [redacted]

(tick if faxed) Fax to

	Technical Services Engineer [redacted]
	Manager Operations Ipswich [redacted]
	Manager Dam Safet [redacted]

SunWater
Section 6A: Page 1 of 5
Dec 05, Issue 2-0

EMERGENCY ACTION PLAN - E J BEARDMORE DAM

Beardmore DAM EAP — **Sheet 1 (Flood Operation)**

Visual Inspection and Storage Report
Note: See reverse side for instruction**

Date: 08.12.10

	SUN	MON	TUE	WED	THU	FRI	SAT
Stored Water Level F.S.L 207.12m.				207.12			
Tail Water Level m.				199.45			
Daily Rainfall (mm) Morning 9am				0			
Evening 3pm				0			

STAGE 1 Fill Table 1 (Record of Gate Operation)	STAGE 2, 3, 4, 5 and 6 Fill Table 1 & 2 and Visual Inspection sheet (Frequency **)

Gauging Station	Beardmore	Cashmere	Weribone
Morning 9 am			
Evening 3pm			

Visual Inspection	First Inspection	Second Inspection (+6 hrs)	Third Inspection (+12 hrs)
Visual Inspection (Walk OR Drive at 10 km/hour. Write 'W' for walk and 'D' for Drive)	W	D	
Spillway Gate / Dissipator			
Erosion, damage to concrete, misalignment of gates	✓	✓	
Irrigation Control Structure			
Cracks, concrete deterioration	✓	✓	
Embankments			
Left Embankment: Cracks, subsidence in pavement	✓	✓	
Right Embankment: Cracks, subsidence in pavement	✓	✓	
Upstream Face: (Use binoculars)			
Settlement	✓	✓	
Displacement of riprap material	✓	✓	
Downstream face:			
Subsidence, slides, erosion	✓	✓	
Sign of seepage	✓	✓	
Area Downstream of Dam:			
Seepage from any location apart from seepage pt:	✓	✓	
Lower Gallery Access: (Inspect if it is safe to do so)			
Cracks, seepage increase			
Seepage: Seepage water Clear or Turbid (Tick for clear)			
Jack Taylor Weir — **By St. George Office**	Gate Fully open	Gates ..... % open	
Erosion, damage to concrete			

Details of significant changes. New occurrences and matter warranting further attention ..... N/A

Inspecting Officer's initial [redacted]

(tick if faxed) Fax to
- Technical Services Engineer [redacted]
- Manager Operations Ipswich [redacted]
- Manager Dam Safety [redacted]

SunWater
Section 6A: Page 1 of 5
Dec 05, Issue 2-0

EMERGENCY ACTION PLAN - E J BEARDMORE DAM

Beardmore DAM EAP — **Sheet 1 (Flood Operation)**

Visual Inspection and Storage Report
Note: See reverse side for instruction**

Date: 9-12-10

	SUN	MON	TUE	WED	THU	FRI	SAT
Stored Water Level F.S.L 207.12m.					207.5		
Tail Water Level m.					199.88		
Daily Rainfall (mm) Morning 9am					–		
Evening 3pm					–		

STAGE 1 Fill Table 1 (Record of Gate Operation)	STAGE 2, 3, 4, 5 and 6 Fill Table 1 & 2 and Visual Inspection sheet (Frequency **)		
Gauging Station	Beardmore	Cashmere	Weribone
Morning 9 am			
Evening 3pm			

Visual Inspection	First Inspection	Second Inspection (+6 hrs)	Third Inspection (+12 hrs)
Visual Inspection (Walk OR Drive at 10 km/hour. Write 'W' for walk and 'D' for Drive)	W	W	
Spillway Gate / Dissipator			
Erosion, damage to concrete, misalignment of gates	✓	✓	
Irrigation Control Structure			
Cracks, concrete deterioration	✓	✓	
Embankments			
Left Embankment: Cracks, subsidence in pavement	✓	✓	
Right Embankment: Cracks, subsidence in pavement	✓	✓	
Upstream Face: (Use binoculars)			
Settlement	✓	✓	
Displacement of riprap material	✓	✓	
Downstream face:			
Subsidence, slides, erosion	✓	✓	
Sign of seepage	✓	✓	
Area Downstream of Dam:			
Seepage from any location apart from seepage pt:	✓	✓	
Lower Gallery Access: (Inspect if it is safe to do so)			
Cracks, seepage increase		✓	
Seepage: Seepage water Clear or Turbid (Tick for clear)			
Jack Taylor Weir By St. George Office	Gate Fully open	Gates ..... % open	
Erosion, damage to concrete			

Details of significant changes. New occurrences and matter warranting further attention .....

Inspecting Officer's initial [redacted]

(tick if faxed) Fax to
- Technical Services Engineer [redacted]
- Manager Operations Ipswich [redacted]
- Manager Dam Safety [redacted]

SunWater
Section 6A: Page 1 of 5
Dec 05, Issue 2-0

EMERGENCY ACTION PLAN - E J BEARDMORE DAM

Beardmore DAM EAP — **Sheet 1 (Flood Operation)**

Visual Inspection and Storage Report
Note: See reverse side for instruction**

Date: 10-12-10

	SUN	MON	TUE	WED	THU	FRI	SAT
Stored Water Level F.S.L **207.12**m.						207.13	
'Tail Water Level m.						200.24	
Daily Rainfall (mm) Morning 9am							
Evening 3pm							

STAGE 1 Fill Table 1 (Record of Gate Operation)	STAGE 2, 3, 4, 5 and 6 Fill Table 1 & 2 and Visual Inspection sheet (Frequency **)

Gauging Station	Beardmore	Cashmere	Weribone
Morning 9 am	207.13		
Evening 3pm	207.13		

Visual Inspection	First Inspection	Second Inspection (+6 hrs)	Third Inspection (+12 hrs)
Visual Inspection (Walk OR Drive at 10 km/hour. Write 'W' for walk and 'D' for Drive)	W	W	
Spillway Gate / Dissipator			
Erosion, damage to concrete, misalignment of gates	✓	✓	
Irrigation Control Structure			
Cracks, concrete deterioration	✓	✓	
Embankments			
Left Embankment: Cracks, subsidence in pavement	✓	✓	
Right Embankment: Cracks, subsidence in pavement	✓	✓	
Upstream Face: (Use binoculars)			
Settlement	✓	✓	
Displacement of riprap material	✓	✓	
Downstream face:			
Subsidence, slides, erosion	✓	✓	
Sign of seepage	✓	✓	
Area Downstream of Dam:			
Seepage from any location apart from seepage pt:	✓	✓	
Lower Gallery Access: (Inspect if it is safe to do so)			
Cracks, seepage increase			
Seepage: Seepage water Clear or Turbid (Tick for clear)			
Jack Taylor Weir By St. George Office	Gate Fully open	Gates ..... % open	
Erosion, damage to concrete			

Details of significant changes. New occurrences and matter warranting further attention .....

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Inspecting Officer's initial [redacted]

(tick if faxed) Fax to

	Technical Services Engineer [redacted]
	Manager Operations Ipswich [redacted]
	Manager Dam Safet [redacted]

SunWater
Section 6A: Page 1 of 5
Dec 05, Issue 2-0

EMERGENCY ACTION PLAN - E J BEARDMORE DAM

Beardmore DAM EAP — **Sheet 1 (Flood Operation)**

Visual Inspection and Storage Report
Note: See reverse side for instruction**

Date: 11-12-10

	SUN	MON	TUE	WED	THU	FRI	SAT
Stored Water Level F.S.L 207.12m.							207.06
'Tail Water Level m.							200.24
Daily Rainfall (mm) Morning 9am							
Evening 3pm							

STAGE 1 Fill Table 1 (Record of Gate Operation)	STAGE 2, 3, 4, 5 and 6 Fill Table 1 & 2 and Visual Inspection sheet (Frequency **)		
Gauging Station	**Beardmore**	**Cashmere**	**Weribone**
Morning 9 am	207.06		
Evening 3pm	207.06		

Visual Inspection	First Inspection	Second Inspection (+6 hrs)	Third Inspection (+12 hrs)
Visual Inspection (Walk OR Drive at 10 km/hour. Write 'W' for walk and 'D' for Drive)	D	D	
Spillway Gate / Dissipator			
Erosion, damage to concrete, misalignment of gates	✓	✓	
Irrigation Control Structure			
Cracks, concrete deterioration	✓	✓	
Embankments			
Left Embankment: Cracks, subsidence in pavement	✓	✓	
Right Embankment: Cracks, subsidence in pavement	✓	✓	
Upstream Face: (Use binoculars)			
Settlement	✓	✓	
Displacement of riprap material	✓	✓	
Downstream face:			
Subsidence, slides, erosion	✓	✓	
Sign of seepage	✓	✓	
Area Downstream of Dam:			
Seepage from any location apart from seepage pt:	✓	✓	
Lower Gallery Access: (Inspect if it is safe to do so)			
Cracks, seepage increase			
Seepage: Seepage water Clear or Turbid (Tick for clear)			
Jack Taylor Weir — **By St. George Office**	Gate Fully open	Gates ..... % open	
Erosion, damage to concrete			

Details of significant changes. New occurrences and matter warranting further attention .....

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Inspecting Officer's initial [redacted]
(tick if faxed) Fax to
- Technical Services Engineer [redacted]
- Manager Operations Ipswich
- Manager Dam Safety [redacted]

SunWater
Section 6A: Page 1 of 5
Dec 05, Issue 2-0

EMERGENCY ACTION PLAN - E J BEARDMORE DAM

Beardmore DAM EAP — **Sheet 1 (Flood Operation)**

Visual Inspection and Storage Report
Note: See reverse side for instruction**

Date: 12-12-10

	SUN	MON	TUE	WED	THU	FRI	SAT
Stored Water Level F.S.L 207.12m.	207.16						
'Tail Water Level m.	199.20						
Daily Rainfall (mm) Morning 9am							
Evening 3pm							

STAGE 1 Fill Table 1 (Record of Gate Operation)	STAGE 2, 3, 4, 5 and 6 Fill Table 1 & 2 and Visual Inspection sheet (Frequency **)		
Gauging Station	**Beardmore**	**Cashmere**	**Weribone**
Morning 9 am	207.16		
Evening 3pm	207.12		

Visual Inspection	First Inspection	Second Inspection (+6 hrs)	Third Inspection (+12 hrs)
Visual Inspection (Walk OR Drive at 10 km/hour. Write 'W' for walk and 'D' for Drive)	D	D	
Spillway Gate / Dissipator			
Erosion, damage to concrete, misalignment of gates	✓	✓	
Irrigation Control Structure			
Cracks, concrete deterioration	✓	✓	
Embankments			
Left Embankment: Cracks, subsidence in pavement	✓	✓	
Right Embankment: Cracks, subsidence in pavement	✓	✓	
Upstream Face: (Use binoculars)			
Settlement	✓	✓	
Displacement of riprap material	✓	✓	
Downstream face:			
Subsidence, slides, erosion	✓	✓	
Sign of seepage	✓	✓	
Area Downstream of Dam:			
Seepage from any location apart from seepage pt:	✓	✓	
Lower Gallery Access: (Inspect if it is safe to do so)			
Cracks, seepage increase			
Seepage: Seepage water Clear or Turbid (Tick for clear)			
Jack Taylor Weir — **By St. George Office**	Gate Fully open	Gates ..... % open	
Erosion, damage to concrete			

Details of significant changes. New occurrences and matter warranting further attention .....

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Inspecting Officer's initial [redacted]
(tick if faxed) Fax to
Technical Services Engineer [redacted]
Manager Operations Ipswich [redacted]
Manager Dam Safety [redacted]

SunWater
Section 6A: Page 1 of 5
Dec 05, Issue 2-0

EMERGENCY ACTION PLAN - E J BEARDMORE DAM

Beardmore DAM EAP — **Sheet 1 (Flood Operation)**

Visual Inspection and Storage Report
Note: See reverse side for instruction**

Date: 13-12-10

	SUN	MON	TUE	WED	THU	FRI	SAT
Stored Water Level F.S.L 207.12m.		207.09					
'Tail Water Level m.		19897					
Daily Rainfall (mm) Morning 9am							
Evening 3pm							

STAGE 1 Fill Table 1 (Record of Gate Operation)	STAGE 2, 3, 4, 5 and 6 Fill Table 1 & 2 and Visual Inspection sheet (Frequency **)		
Gauging Station	**Beardmore**	**Cashmere**	**Weribone**
Morning 9 am	207.09	3.45	7.96
Evening 3pm	207.15	3.45	7.90

Visual Inspection	First Inspection	Second Inspection (+6 hrs)	Third Inspection (+12 hrs)
Visual Inspection (Walk OR Drive at 10 km/hour. Write 'W' for walk and 'D' for Drive)	D		
Spillway Gate / Dissipator			
Erosion, damage to concrete, misalignment of gates	✓	✓	
Irrigation Control Structure			
Cracks, concrete deterioration	✓	✓	
Embankments			
Left Embankment: Cracks, subsidence in pavement	✓	✓	
Right Embankment: Cracks, subsidence in pavement	✓	✓	
Upstream Face: (Use binoculars)			
Settlement	✓	✓	
Displacement of riprap material	✓	✓	
Downstream face:			
Subsidence, slides, erosion	✓	✓	
Sign of seepage	✓	✓	
Area Downstream of Dam:			
Seepage from any location apart from seepage pt:	✓	✓	
Lower Gallery Access: (Inspect if it is safe to do so)			
Cracks, seepage increase			
Seepage: Seepage water Clear or Turbid (Tick for clear)			
Jack Taylor Weir — **By St. George Office**	Gate Fully open	Gates ..... % open	
Erosion, damage to concrete			

Details of significant changes. New occurrences and matter warranting further attention .....

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Inspecting Officer's initial [redacted]

(tick if faxed) Fax to

	Technical Services Engineer [redacted]
	Manager Operations Ipswich [redacted]
	Manager Dam Safety [redacted]

SunWater
Section 6A: Page 1 of 5
Dec 05, Issue 2-0

EMERGENCY ACTION PLAN - E J BEARDMORE DAM

Beardmore DAM EAP — **Sheet 1 (Flood Operation)**

Visual Inspection and Storage Report
Note: See reverse side for instruction**

Date: 14-12-10

	SUN	MON	TUE	WED	THU	FRI	SAT
Stored Water Level F.S.L 207.12m.			207.19				
Tail Water Level m.			198.75				
Daily Rainfall (mm) Morning 9am							
Evening 3pm							

STAGE 1 Fill Table 1 (Record of Gate Operation)	STAGE 2, 3, 4, 5 and 6 Fill Table 1 & 2 and Visual Inspection sheet (Frequency **)		
Gauging Station	**Beardmore**	**Cashmere**	**Weribone**
Morning 9 am	207.19		
Evening 3pm	207.13		

Visual Inspection	First Inspection	Second Inspection (+6 hrs)	Third Inspection (+12 hrs)
Visual Inspection (Walk OR Drive at 10 km/hour. Write 'W' for walk and 'D' for Drive)	D	D	
Spillway Gate / Dissipator			
Erosion, damage to concrete, misalignment of gates	✓	✓	
Irrigation Control Structure			
Cracks, concrete deterioration	✓	✓	
Embankments			
Left Embankment: Cracks, subsidence in pavement	✓	✓	
Right Embankment: Cracks, subsidence in pavement	✓	✓	
Upstream Face: (Use binoculars)			
Settlement	✓	✓	
Displacement of riprap material	✓	✓	
Downstream face:			
Subsidence, slides, erosion	✓	✓	
Sign of seepage	✓	✓	
Area Downstream of Dam:			
Seepage from any location apart from seepage pt:	✓	✓	
Lower Gallery Access: (Inspect if it is safe to do so)			
Cracks, seepage increase			
Seepage: Seepage water Clear or Turbid (Tick for clear)			
Jack Taylor Weir — **By St. George Office**	Gate Fully open	Gates ..... % open	
Erosion, damage to concrete			

Details of significant changes. New occurrences and matter warranting further attention .....

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Inspecting Officer's initial [redacted]

(tick if faxed) Fax to
- Technical Services Engineer [redacted]
- Manager Operations Ipswich [redacted]
- Manager Dam Safety [redacted]

SunWater
Section 6A: Page 1 of 5
Dec 05, Issue 2-0

EMERGENCY ACTION PLAN - E J BEARDMORE DAM

Beardmore DAM EAP — **Sheet 1 (Flood Operation)**

Visual Inspection and Storage Report
Note: See reverse side for instruction**

Date: 15.2.2

	SUN	MON	TUE	WED	THU	FRI	SAT
Stored Water Level F.S.L 207.12m.				207.05			
'Tail Water Level m.				195.07			
Daily Rainfall (mm) Morning 9am							
Evening 3pm							

STAGE 1 Fill Table 1 (Record of Gate Operation)	STAGE 2, 3, 4, 5 and 6 Fill Table 1 & 2 and Visual Inspection sheet (Frequency **)		
Gauging Station	**Beardmore**	**Cashmere**	**Weribone**
Morning 9 am	207.05	5.05	8.27
Evening 3pm	207.10	5.20	8.37

Visual Inspection	First Inspection	Second Inspection (+6 hrs)	Third Inspection (+12 hrs)
Visual Inspection (Walk OR Drive at 10 km/hour. Write 'W' for walk and 'D' for Drive)	D	D	
Spillway Gate / Dissipator			
Erosion, damage to concrete, misalignment of gates	✓	✓	
Irrigation Control Structure			
Cracks, concrete deterioration	✓	✓	
Embankments			
Left Embankment: Cracks, subsidence in pavement	✓	✓	
Right Embankment: Cracks, subsidence in pavement	✓	✓	
Upstream Face: (Use binoculars)			
Settlement	✓	✓	
Displacement of riprap material	✓	✓	
Downstream face:			
Subsidence, slides, erosion	✓	✓	
Sign of seepage	✓	✓	
Area Downstream of Dam:			
Seepage from any location apart from seepage pt:	✓	✓	
Lower Gallery Access: (Inspect if it is safe to do so)			
Cracks, seepage increase			
Seepage: Seepage water Clear or Turbid (Tick for clear)			
Jack Taylor Weir — **By St. George Office**	Gate Fully open	Gates ..... % open	
Erosion, damage to concrete			

Details of significant changes. New occurrences and matter warranting further attention .....

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Inspecting Officer's initial [redacted]
(tick if faxed) Fax to
Technical Services Engineer [redacted]
Manager Operations Ipswich [redacted]
Manager Dam Safety [redacted]

SunWater
Section 6A: Page 1 of 5
Dec 05, Issue 2-0

EMERGENCY ACTION PLAN - E J BEARDMORE DAM

Beardmore DAM EAP — **Sheet 1 (Flood Operation)**

Visual Inspection and Storage Report
Note: See reverse side for instruction**

Date: 16-12-10

	SUN	MON	TUE	WED	THU	FRI	SAT
Stored Water Level F.S.L 207.12m.					207.22		
'Tail Water Level m.					198.67		
Daily Rainfall (mm) Morning 9am					1.2		
Evening 3pm							

STAGE 1 Fill Table 1 (Record of Gate Operation)	STAGE 2, 3, 4, 5 and 6 Fill Table 1 & 2 and Visual Inspection sheet (Frequency **)		
Gauging Station	Beardmore	Cashmere	Weribone
Morning 9 am	207.22	5.58	8.64
Evening 3pm	207.18	5.72	8.68

Visual Inspection	First Inspection	Second Inspection (+6 hrs)	Third Inspection (+12 hrs)
Visual Inspection (Walk OR Drive at 10 km/hour. Write 'W' for walk and 'D' for Drive)	D	W	
Spillway Gate / Dissipator			
Erosion, damage to concrete, misalignment of gates	✓	✓	
Irrigation Control Structure			
Cracks, concrete deterioration	✓	✓	
Embankments			
Left Embankment: Cracks, subsidence in pavement	✓	✓	
Right Embankment: Cracks, subsidence in pavement	✓	✓	
Upstream Face: (Use binoculars)			
Settlement			
Displacement of riprap material	✓	✓	
Downstream face:			
Subsidence, slides, erosion	✓	✓	
Sign of seepage	✓	✓	
Area Downstream of Dam:			
Seepage from any location apart from seepage pt:	✓	✓	
Lower Gallery Access: (Inspect if it is safe to do so)			
Cracks, seepage increase			
Seepage: Seepage water Clear or Turbid (Tick for clear)			
Jack Taylor Weir By St. George Office	Gate Fully open	Gates ..... % open	
Erosion, damage to concrete			

Details of significant changes. New occurrences and matter warranting further attention .....

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Inspecting Officer's initial [redacted]

(tick if faxed) Fax to

	Technical Services Engineer [redacted]
	Manager Operations Ipswich [redacted]
	Manager Dam Safety [redacted]

SunWater
Section 6A: Page 1 of 5
Dec 05, Issue 2-0

EMERGENCY ACTION PLAN - E J BEARDMORE DAM

Beardmore DAM EAP — **Sheet 1 (Flood Operation)**

Visual Inspection and Storage Report
Note: See reverse side for instruction**

Date: 17.12.10

	SUN	MON	TUE	WED	THU	FRI	SAT
Stored Water Level F.S.L 207.12m.						207.00	
'Tail Water Level m.						199.88	
Daily Rainfall (mm) Morning 9am							
Evening 3pm							

STAGE 1 Fill Table 1 (Record of Gate Operation)	STAGE 2, 3, 4, 5 and 6 Fill Table 1 & 2 and Visual Inspection sheet (Frequency **)		
Gauging Station	Beardmore	Cashmere	Weribone
Morning 9 am	207.00	5.78	8.79
Evening 3pm	207.00	5.65	8.81

Visual Inspection	First Inspection	Second Inspection (+6 hrs)	Third Inspection (+12 hrs)
Visual Inspection (Walk OR Drive at 10 km/hour. Write 'W' for walk and 'D' for Drive)	W	D	
Spillway Gate / Dissipator			
Erosion, damage to concrete, misalignment of gates	✓	✓	
Irrigation Control Structure			
Cracks, concrete deterioration	✓	✓	
Embankments			
Left Embankment: Cracks, subsidence in pavement	✓	✓	
Right Embankment: Cracks, subsidence in pavement	✓	✓	
Upstream Face: (Use binoculars)			
Settlement	✓	✓	
Displacement of riprap material	✓	✓	
Downstream face:			
Subsidence, slides, erosion	✓	✓	
Sign of seepage	✓	✓	
Area Downstream of Dam:			
Seepage from any location apart from seepage pt:	✓	✓	
Lower Gallery Access: (Inspect if it is safe to do so)			
Cracks, seepage increase			
Seepage: Seepage water Clear or Turbid (Tick for clear)			
Jack Taylor Weir By St. George Office	Gate Fully open	Gates ..... % open	
Erosion, damage to concrete			

Details of significant changes. New occurrences and matter warranting further attention .....

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Inspecting Officer's initial [redacted]
(tick if faxed) Fax to
Technical Services Engineer [redacted]
Manager Operations Ipswich
Manager Dam Safety [redacted]

SunWater
Section 6A: Page 1 of 5
Dec 05, Issue 2.0

EMERGENCY ACTION PLAN - E J BEARDMORE DAM

Beardmore DAM EAP — **Sheet 1 (Flood Operation)**

Visual Inspection and Storage Report
Note: See reverse side for instruction**

Date: 18-12-10

	SUN	MON	TUE	WED	THU	FRI	SAT
Stored Water Level F.S.L 207.12m.							20711
Tail Water Level m.							159.65
Daily Rainfall (mm) Morning 9am							
Evening 3pm							

STAGE 1 Fill Table 1 (Record of Gate Operation)	STAGE 2, 3, 4, 5 and 6 Fill Table 1 & 2 and Visual Inspection sheet (Frequency **)		
Gauging Station	**Beardmore**	**Cashmere**	**Weribone**
Morning 9 am	20711	4.81	8.96
Evening 3pm	20712	4.26	9.00

Visual Inspection	First Inspection	Second Inspection (+6 hrs)	Third Inspection (+12 hrs)
Visual Inspection (Walk OR Drive at 10 km/hour. Write 'W' for walk and 'D' for Drive)	D	W	
Spillway Gate / Dissipator			
Erosion, damage to concrete, misalignment of gates	✓	✓	
Irrigation Control Structure			
Cracks, concrete deterioration	✓	✓	
Embankments			
Left Embankment: Cracks, subsidence in pavement	✓	✓	
Right Embankment: Cracks, subsidence in pavement	✓	✓	
Upstream Face: (Use binoculars)			
Settlement	✓	✓	
Displacement of riprap material	✓	✓	
Downstream face:			
Subsidence, slides, erosion	✓	✓	
Sign of seepage	✓	✓	
Area Downstream of Dam:			
Seepage from any location apart from seepage pt:	✓	✓	
Lower Gallery Access: (Inspect if it is safe to do so)			
Cracks, seepage increase			
Seepage: Seepage water Clear or Turbid (Tick for clear)			
Jack Taylor Weir By St. George Office	Gate Fully open	Gates ..... % open	
Erosion, damage to concrete			

Details of significant changes. New occurrences and matter warranting further attention .....

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Inspecting Officer's initial [redacted]

(tick if faxed) Fax to

	Technical Services Engineer [redacted]
	Manager Operations Ipswich [redacted]
	Manager Dam Safety [redacted]

SunWater
Section 6A: Page 1 of 5
Doc 05, Issue 2.0

EMERGENCY ACTION PLAN - E J BEARDMORE DAM

Beardmore DAM EAP — **Sheet 1 (Flood Operation)**

Visual Inspection and Storage Report
Note: See reverse side for instruction**

Date: 19.12.10

	SUN	MON	TUE	WED	THU	FRI	SAT
Stored Water Level F.S.L 207.12m.	207.05						
'Tail Water Level m.	199.18						
Daily Rainfall (mm) Morning 9am							
Evening 3pm							

STAGE 1 Fill Table 1 (Record of Gate Operation)	STAGE 2, 3, 4, 5 and 6 Fill Table 1 & 2 and Visual Inspection sheet (Frequency **)		
Gauging Station	Beardmore	Cashmere	Weribone
Morning 9 am	207.05	3.60	9.14
Evening 3pm			

Visual Inspection	First Inspection	Second Inspection (+6 hrs)	Third Inspection (+12 hrs)
Visual Inspection (Walk OR Drive at 10 km/hour. Write 'W' for walk and 'D' for Drive)	W		
Spillway Gate / Dissipator			
Erosion, damage to concrete, misalignment of gates	✓		
Irrigation Control Structure			
Cracks, concrete deterioration	✓		
Embankments			
Left Embankment: Cracks, subsidence in pavement	✓		
Right Embankment: Cracks, subsidence in pavement	✓		
Upstream Face: (Use binoculars)			
Settlement			
Displacement of riprap material	✓		
Downstream face:			
Subsidence, slides, erosion	✓		
Sign of seepage	✓		
Area Downstream of Dam:			
Seepage from any location apart from seepage pt:	✓		
Lower Gallery Access: (Inspect if it is safe to do so)			
Cracks, seepage increase			
Seepage: Seepage water Clear or Turbid (Tick for clear)			
Jack Taylor Weir By St. George Office	Gate Fully open	Gates ..... % open	
Erosion, damage to concrete			

Details of significant changes. New occurrences and matter warranting further attention .....

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Inspecting Officer's initial	3b.		
(tick if faxed) Fax to		Technical Services Engineer (07) 4620 8510	
		Manager Operations Ipswich (07) 3884 5312	
		Manager Dam Safety (07) 3120 0255	

SunWater
Section 6A: Page 1 of 5
Dec 05, Issue 2.0

EMERGENCY ACTION PLAN - E J BEARDMORE DAM

Beardmore DAM EAP — **Sheet 1 (Flood Operation)**

Visual Inspection and Storage Report
Note: See reverse side for instruction**

Date: 20.12.10

	SUN	MON	TUE	WED	THU	FRI	SAT
Stored Water Level F.S.L 207.12m.		207.09					
'Tail Water Level m.							
Daily Rainfall (mm) Morning 9am		2.0					
Evening 3pm							

STAGE 1 Fill Table 1 (Record of Gate Operation)	STAGE 2, 3, 4, 5 and 6 Fill Table 1 & 2 and Visual Inspection sheet (Frequency **)

Gauging Station	Beardmore	Cashmere	Weribone
Morning 9 am	207.09	3.04	9.18
Evening 3pm			

Visual Inspection	First Inspection	Second Inspection (+6 hrs)	Third Inspection (+12 hrs)
Visual Inspection (Walk OR Drive at 10 km/hour. Write 'W' for walk and 'D' for Drive)	W		
Spillway Gate / Dissipator			
Erosion, damage to concrete, misalignment of gates	✓		
Irrigation Control Structure			
Cracks, concrete deterioration	✓		
Embankments			
Left Embankment: Cracks, subsidence in pavement	✓		
Right Embankment: Cracks, subsidence in pavement	✓		
Upstream Face: (Use binoculars)			
Settlement	✓		
Displacement of riprap material	✓		
Downstream face:			
Subsidence, slides, erosion	✓		
Sign of seepage	✓		
Area Downstream of Dam:			
Seepage from any location apart from seepage pt:	✓		
Lower Gallery Access: (Inspect if it is safe to do so)			
Cracks, seepage increase			
Seepage: Seepage water Clear or Turbid (Tick for clear)			
Jack Taylor Weir — **By St. George Office**	Gate Fully open	Gates ..... % open	
Erosion, damage to concrete			

Details of significant changes. New occurrences and matter warranting further attention .....

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Inspecting Officer's initial [redacted]

(tick if faxed) Fax to

	Technical Services Engineer [redacted]
	Manager Operations Ipswich [redacted]
	Manager Dam Safety [redacted]

SunWater
Section 6A: Page 1 of 5
Dec 05, Issue 2.0

EMERGENCY ACTION PLAN - E J BEARDMORE DAM

Beardmore DAM EAP — **Sheet 1 (Flood Operation)**

Visual Inspection and Storage Report
Note: See reverse side for instruction**

Date: 21-12-10.

	SUN	MON	TUE	WED	THU	FRI	SAT
Stored Water Level F.S.L 207.12m.			207,10				
Tail Water Level m.			198,98				
Daily Rainfall (mm) Morning 9am							
Evening 3pm							

STAGE 1 Fill Table 1 (Record of Gate Operation)	STAGE 2, 3, 4, 5 and 6 Fill Table 1 & 2 and Visual Inspection sheet (Frequency **)		
Gauging Station	Beardmore	Cashmere	Weribone
Morning 9 am	207,10	2.90	9.30.
Evening 3pm			

Visual Inspection	First Inspection	Second Inspection (+6 hrs)	Third Inspection (+12 hrs)
Visual Inspection (Walk OR Drive at 10 km/hour. Write 'W' for walk and 'D' for Drive)			
Spillway Gate / Dissipator			
Erosion, damage to concrete, misalignment of gates	✓		
Irrigation Control Structure			
Cracks, concrete deterioration	✓		
Embankments			
Left Embankment: Cracks, subsidence in pavement	✓		
Right Embankment: Cracks, subsidence in pavement	✓		
Upstream Face: (Use binoculars)			
Settlement	✓		
Displacement of riprap material	✓		
Downstream face:			
Subsidence, slides, erosion	✓		
Sign of seepage	✓		
Area Downstream of Dam:			
Seepage from any location apart from seepage pt:	✓		
Lower Gallery Access: (Inspect if it is safe to do so)			
Cracks, seepage increase			
Seepage: Seepage water Clear or Turbid (Tick for clear)			
Jack Taylor Weir By St. George Office	Gate Fully open	Gates ..... % open	
Erosion, damage to concrete			

Details of significant changes. New occurrences and matter warranting further attention .....

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Inspecting Officer's initial [redacted]

(tick if faxed) Fax to
- Technical Services Engineer [redacted]
- Manager Operations Ipswich [redacted]
- Manager Dam Safety [redacted]

SunWater
Section 6A: Page 1 of 5
Dec 05, Issue 2.0

EMERGENCY ACTION PLAN - E J BEARDMORE DAM

Beardmore DAM EAP — **Sheet 1 (Flood Operation)**

Visual Inspection and Storage Report
Note: See reverse side for instruction**

Date: 22-12-10

	SUN	MON	TUE	WED	THU	FRI	SAT
Stored Water Level F.S.L 207.12m.				207.12			
Tail Water Level m.				198.98			
Daily Rainfall (mm) Morning 9am							
Evening 3pm							

STAGE 1 Fill Table 1 (Record of Gate Operation)	STAGE 2, 3, 4, 5 and 6 Fill Table 1 & 2 and Visual Inspection sheet (Frequency **)		
Gauging Station	Beardmore	Cashmere	Weribone
Morning 9 am	207.12	4.63	9.68.
Evening 3pm			

Visual Inspection	First Inspection	Second Inspection (+6 hrs)	Third Inspection (+12 hrs)
Visual Inspection (Walk OR Drive at 10 km/hour. Write 'W' for walk and 'D' for Drive)	D		
Spillway Gate / Dissipator			
Erosion, damage to concrete, misalignment of gates	✓		
Irrigation Control Structure			
Cracks, concrete deterioration	✓		
Embankments			
Left Embankment: Cracks, subsidence in pavement	✓		
Right Embankment: Cracks, subsidence in pavement	✓		
Upstream Face: (Use binoculars)			
Settlement	✓		
Displacement of riprap material	✓		
Downstream face:			
Subsidence, slides, erosion	✓		
Sign of seepage	✓		
Area Downstream of Dam:			
Seepage from any location apart from seepage pt:	✓		
Lower Gallery Access: (Inspect if it is safe to do so)			
Cracks, seepage increase			
Seepage: Seepage water Clear or Turbid (Tick for clear)			
Jack Taylor Weir By St. George Office	Gate Fully open	Gates ..... % open	
Erosion, damage to concrete			

Details of significant changes. New occurrences and matter warranting further attention .....

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Inspecting Officer's initial	[redacted]		
(tick if faxed) Fax to		Technical Services Engineer [redacted]	
		Manager Operations Ipswich [redacted]	
		Manager Dam Safety [redacted]	

SunWater
Section 6A: Page 1 of 5
Dec 05, Issue 2-0

EMERGENCY ACTION PLAN - E J BEARDMORE DAM

Beardmore DAM EAP — **Sheet 1 (Flood Operation)**

Visual Inspection and Storage Report
Note: See reverse side for instruction**

Date: 25-12-10

	SUN	MON	TUE	WED	THU	FRI	SAT
Stored Water Level F.S.L 207.12m.					207.15		
Tail Water Level m.					199.68.		
Daily Rainfall (mm) Morning 9am							
Evening 3pm							

STAGE 1 Fill Table 1 (Record of Gate Operation)	STAGE 2, 3, 4, 5 and 6 Fill Table 1 & 2 and Visual Inspection sheet (Frequency **)		
Gauging Station	Beardmore	Cashmere	Weribone
Morning 9 am	207.15	5.44	9.86
Evening 3pm			

Visual Inspection	First Inspection	Second Inspection (+6 hrs)	Third Inspection (+12 hrs)
Visual Inspection (Walk OR Drive at 10 km/hour. Write 'W' for walk and 'D' for Drive)	W		
Spillway Gate / Dissipator			
Erosion, damage to concrete, misalignment of gates	✓		
Irrigation Control Structure			
Cracks, concrete deterioration	✓		
Embankments			
Left Embankment: Cracks, subsidence in pavement	✓		
Right Embankment: Cracks, subsidence in pavement	✓		
Upstream Face: (Use binoculars)			
Settlement	✓		
Displacement of riprap material	✓		
Downstream face:			
Subsidence, slides, erosion	✓		
Sign of seepage	✓		
Area Downstream of Dam:			
Seepage from any location apart from seepage pt:	✓		
Lower Gallery Access: (Inspect if it is safe to do so)			
Cracks, seepage increase			
Seepage: Seepage water Clear or Turbid (Tick for clear)			
Jack Taylor Weir By St. George Office	Gate Fully open	Gates ..... % open	
Erosion, damage to concrete			

Details of significant changes. New occurrences and matter warranting further attention .....

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..... [redacted] .....

Inspecting Officer's initial [redacted]

(tick if faxed) Fax to

	Technical Services Engineer [redacted]
	Manager Operations Ipswich [redacted]
	Manager Dam Safety [redacted]

SunWater
Section 6A: Page 1 of 5
Dec 05, Issue 2.0

EMERGENCY ACTION PLAN - E J BEARDMORE DAM

Beardmore DAM EAP — **Sheet 1 (Flood Operation)**

Visual Inspection and Storage Report
Note: See reverse side for instruction**

Date: 29.12.10

	SUN	MON	TUE	WED	THU	FRI	SAT
Stored Water Level F.S.L 207.12m.						207.17	
'Tail Water Level m.						200.45	
Daily Rainfall (mm) Morning 9am							
Evening 3pm							

STAGE 1 Fill Table 1 (Record of Gate Operation)	STAGE 2, 3, 4, 5 and 6 Fill Table 1 & 2 and Visual Inspection sheet (Frequency **)		
Gauging Station	Beardmore	Cashmere	Weribone
Morning 9 am	207.17	5.969	10.003
Evening 3pm			

Visual Inspection	First Inspection	Second Inspection (+6 hrs)	Third Inspection (+12 hrs)
Visual Inspection (Walk OR Drive at 10 km/hour. Write 'W' for walk and 'D' for Drive)	D.W		
Spillway Gate / Dissipator			
Erosion, damage to concrete, misalignment of gates	Nil		
Irrigation Control Structure			
Cracks, concrete deterioration	Nil		
Embankments			
Left Embankment: Cracks, subsidence in pavement	Nil		
Right Embankment: Cracks, subsidence in pavement	Nil		
Upstream Face: (Use binoculars)			
Settlement			
Displacement of riprap material	Nil		
Downstream face:			
Subsidence, slides, erosion	Nil		
Sign of seepage	Nil		
Area Downstream of Dam:			
Seepage from any location apart from seepage pt:	Nil		
Lower Gallery Access: (Inspect if it is safe to do so)			
Cracks, seepage increase	Nil above normal		
Seepage: Seepage water Clear or Turbid (Tick for clear)	Clear.		
Jack Taylor Weir By St. George Office	Gate Fully open	Gates ..... % open	
Erosion, damage to concrete			

Details of significant changes. New occurrences and matter warranting further attention .....

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Inspecting Officer's initial [redacted]

(tick if faxed) Fax to
- Technical Services Engineer [redacted]
- Manager Operations Ipswich [redacted]
- Manager Dam Safet [redacted]

SunWater
Section 6A: Page 1 of 5
Doc 05, Issue 2-0

EMERGENCY ACTION PLAN - E J BEARDMORE DAM

Beardmore DAM EAP — **Sheet 1 (Flood Operation)**

Visual Inspection and Storage Report
Note: See reverse side for instruction**

Date 25-12-10

	SUN	MON	TUE	WED	THU	FRI	SAT
Stored Water Level F.S.L 207.12m.							207.10
'Tail Water Level m.							200.80
Daily Rainfall (mm) Morning 9am							
Evening 3pm							

STAGE 1 Fill Table 1 (Record of Gate Operation)	STAGE 2, 3, 4, 5 and 6 Fill Table 1 & 2 and Visual Inspection sheet (Frequency **)		
Gauging Station	Beardmore	Cashmere	Weribone
Morning 9 am	207.10	6.0	9.9
Evening 3pm	207.11	5.8	9.8

Visual Inspection	First Inspection	Second Inspection (+6 hrs)	Third Inspection (+12 hrs)
Visual Inspection (Walk OR Drive at 10 km/hour. Write 'W' for walk and 'D' for Drive)			
Spillway Gate / Dissipator			
Erosion, damage to concrete, misalignment of gates	✓	✓	
Irrigation Control Structure			
Cracks, concrete deterioration	✓	✓	
Embankments			
Left Embankment: Cracks, subsidence in pavement	✓	✓	
Right Embankment: Cracks, subsidence in pavement	✓	✓	
Upstream Face: (Use binoculars)			
Settlement	✓	✓	
Displacement of riprap material	✓	✓	
Downstream face:			
Subsidence, slides, erosion	✓	✓	
Sign of seepage	✓	✓	
Area Downstream of Dam:			
Seepage from any location apart from seepage pt:	✓	✓	
Lower Gallery Access: (Inspect if it is safe to do so)			
Cracks, seepage increase			
Seepage: Seepage water Clear or Turbid (Tick for clear)			
Jack Taylor Weir By St. George Office	Gate Fully open	Gates ..... % open	
Erosion, damage to concrete			

Details of significant changes. New occurrences and matter warranting further attention .....

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Inspecting Officer's initial [redacted]

(tick if faxed) Fax to

	Technical Services Engineer [redacted]
	Manager Operations Ipswich [redacted]
	Manager Dam Safety [redacted]

SunWater
Section 6A: Page 1 of 5
Dec 05, Issue 2.0

EMERGENCY ACTION PLAN - E J BEARDMORE DAM

Beardmore DAM EAP — **Sheet 1 (Flood Operation)**

Visual Inspection and Storage Report
Note: See reverse side for instruction**

Date: 26.12.10

	SUN	MON	TUE	WED	THU	FRI	SAT
Stored Water Level F.S.L 207.12m.	207.06						
Tail Water Level m.	200.89						
Daily Rainfall (mm) Morning 9am							
Evening 3pm							

STAGE 1 Fill Table 1 (Record of Gate Operation)	STAGE 2, 3, 4, 5 and 6 Fill Table 1 & 2 and Visual Inspection sheet (Frequency **)		
Gauging Station	**Beardmore**	**Cashmere**	**Weribone**
Morning 9 am	207.06	5.0	9.8
Evening 3pm	207.09	4.7	9.9

Visual Inspection	First Inspection	Second Inspection (+6 hrs)	Third Inspection (+12 hrs)
Visual Inspection (Walk OR Drive at 10 km/hour. Write 'W' for walk and 'D' for Drive)	W	W	
Spillway Gate / Dissipator			
Erosion, damage to concrete, misalignment of gates	✓	✓	
Irrigation Control Structure			
Cracks, concrete deterioration	✓	✓	
Embankments			
Left Embankment: Cracks, subsidence in pavement	✓	✓	
Right Embankment: Cracks, subsidence in pavement	✓	✓	
Upstream Face: (Use binoculars)			
Settlement	✓	✓	
Displacement of riprap material	✓	✓	
Downstream face:			
Subsidence, slides, erosion	✓	✓	
Sign of seepage	✓	✓	
Area Downstream of Dam:			
Seepage from any location apart from seepage pt:	✓	✓	
Lower Gallery Access: (Inspect if it is safe to do so)			
Cracks, seepage increase			
Seepage: Seepage water Clear or Turbid (Tick for clear)			
Jack Taylor Weir — **By St. George Office**	Gate Fully open	Gates ..... % open	
Erosion, damage to concrete			

Details of significant changes. New occurrences and matter warranting further attention .....

Inspecting Officer's initial [redacted]

(tick if faxed) Fax to
- Technical Services Engineer [redacted]
- Manager Operations Ipswich [redacted]
- Manager Dam Safety [redacted]

SunWater
Section 6A: Page 1 of 5
Dec 05, Issue 2.0

EMERGENCY ACTION PLAN - E J BEARDMORE DAM

Beardmore DAM EAP — **Sheet 1 (Flood Operation)**

Visual Inspection and Storage Report
Note: See reverse side for instruction**

Date: 27-12-10

	SUN	MON	TUE	WED	THU	FRI	SAT
Stored Water Level F.S.L 207.12m.		207.00					
'Tail Water Level m.		200.23					
Daily Rainfall (mm) Morning 9am							
Evening 3pm							

STAGE 1 Fill Table 1 (Record of Gate Operation)	STAGE 2, 3, 4, 5 and 6 Fill Table 1 & 2 and Visual Inspection sheet (Frequency **)		
Gauging Station	Beardmore	Cashmere	Weribone
Morning 9 am	207.00	3.8	10.0
Evening 3pm	207.04	3.7	10.1

Visual Inspection	First Inspection	Second Inspection (+6 hrs)	Third Inspection (+12 hrs)
Visual Inspection (Walk OR Drive at 10 km/hour. Write 'W' for walk and 'D' for Drive)			
Spillway Gate / Dissipator			
Erosion, damage to concrete, misalignment of gates	✓	✓	
Irrigation Control Structure			
Cracks, concrete deterioration	✓	✓	
Embankments			
Left Embankment: Cracks, subsidence in pavement	✓	✓	
Right Embankment: Cracks, subsidence in pavement	✓	✓	
Upstream Face: (Use binoculars)			
Settlement	✓	✓	
Displacement of riprap material	✓	✓	
Downstream face:			
Subsidence, slides, erosion	✓	✓	
Sign of seepage	✓	✓	
Area Downstream of Dam:			
Seepage from any location apart from seepage pt:	✓	✓	
Lower Gallery Access: (Inspect if it is safe to do so)			
Cracks, seepage increase			
Seepage: Seepage water Clear or Turbid (Tick for clear)			
Jack Taylor Weir By St. George Office	Gate Fully open	Gates ..... % open	
Erosion, damage to concrete			

Details of significant changes. New occurrences and matter warranting further attention .....

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Inspecting Officer's initial [redacted]

(tick if faxed) Fax to

	Technical Services Engineer [redacted]
	Manager Operations Ipswich [redacted]
	Manager Dam Safety [redacted]

SunWater
Section 6A: Page 1 of 5
Dec 05, Issue 2.0

EMERGENCY ACTION PLAN - E J BEARDMORE DAM

Beardmore DAM EAP — **Sheet 1 (Flood Operation)**

Visual Inspection and Storage Report
Note: See reverse side for instruction**

Date: 28-12-10

	SUN	MON	TUE	WED	THU	FRI	SAT
Stored Water Level F.S.L 207.12m.			207.02				
'Tail Water Level m.			199.68				
Daily Rainfall (mm) Morning 9am			3.6				
Evening 3pm							

STAGE 1 Fill Table 1 (Record of Gate Operation)	STAGE 2, 3, 4, 5 and 6 Fill Table 1 & 2 and Visual Inspection sheet (Frequency **)		
Gauging Station	Beardmore	Cashmere	Weribone
Morning 9 am	207.02	3.4	10.9
Evening 3pm	207.02	3.4	11.32

Visual Inspection	First Inspection	Second Inspection (+6 hrs)	Third Inspection (+12 hrs)
Visual Inspection (Walk OR Drive at 10 km/hour. Write 'W' for walk and 'D' for Drive)			
Spillway Gate / Dissipator			
Erosion, damage to concrete, misalignment of gates	✓	✓	
Irrigation Control Structure			
Cracks, concrete deterioration	✓	✓	
Embankments			
Left Embankment: Cracks, subsidence in pavement	✓	✓	
Right Embankment: Cracks, subsidence in pavement	✓	✓	
Upstream Face: (Use binoculars)			
Settlement	✓	✓	
Displacement of riprap material	✓	✓	
Downstream face:			
Subsidence, slides, erosion	✓	✓	
Sign of seepage	✓	✓	
Area Downstream of Dam:			
Seepage from any location apart from seepage pt:	✓	✓	
Lower Gallery Access: (Inspect if it is safe to do so)			
Cracks, seepage increase			
Seepage: Seepage water Clear or Turbid (Tick for clear)			
Jack Taylor Weir — **By St. George Office**	Gate Fully open	Gates ..... % open	
Erosion, damage to concrete			

Details of significant changes. New occurrences and matter warranting further attention .....

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Inspecting Officer's initial [redacted]

(tick if faxed) Fax to
- [ ] Technical Services Engineer [redacted]
- [ ] Manager Operations Ipswich
- [ ] Manager Dam Safety [redacted]

SunWater
Section 6A: Page 1 of 5
Dec 05, Issue 2.0

EMERGENCY ACTION PLAN - E J BEARDMORE DAM

Beardmore DAM EAP — **Sheet 1 (Flood Operation)**

Visual Inspection and Storage Report
Note: See reverse side for instruction**

Date: 29-12-10

	SUN	MON	TUE	WED	THU	FRI	SAT
Stored Water Level F.S.L 207.12m.				207.06			
'Tail Water Level m.				199.16			
Daily Rainfall (mm) Morning 9am							
Evening 3pm							

STAGE 1 Fill Table 1 (Record of Gate Operation)	STAGE 2, 3, 4, 5 and 6 Fill Table 1 & 2 and Visual Inspection sheet (Frequency **)		
Gauging Station	Beardmore	Cashmere	Weribone
Morning 9 am	207.05		
Evening 3pm	207.30		

Visual Inspection	First Inspection	Second Inspection (+6 hrs)	Third Inspection (+12 hrs)
Visual Inspection (Walk OR Drive at 10 km/hour. Write 'W' for walk and 'D' for Drive)	W		
Spillway Gate / Dissipator			
Erosion, damage to concrete, misalignment of gates	✓		
Irrigation Control Structure			
Cracks, concrete deterioration	✓		
Embankments			
Left Embankment: Cracks, subsidence in pavement	✓		
Right Embankment: Cracks, subsidence in pavement	✓		
Upstream Face: (Use binoculars)			
Settlement	✓		
Displacement of riprap material	✓		
Downstream face:			
Subsidence, slides, erosion	✓		
Sign of seepage	✓		
Area Downstream of Dam:			
Seepage from any location apart from seepage pt:	✓		
Lower Gallery Access: (Inspect if it is safe to do so)			
Cracks, seepage increase			
Seepage: Seepage water Clear or Turbid (Tick for clear)			
Jack Taylor Weir By St. George Office	Gate Fully open	Gates ..... % open	
Erosion, damage to concrete			

Details of significant changes. New occurrences and matter warranting further attention .....

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Inspecting Officer's initial	[redacted]		
(tick if faxed) Fax to	Technical Services Engineer [redacted]		
	Manager Operations Ipswich [redacted]		
	Manager Dam Safety [redacted]		

SunWater
Section 6A: Page 1 of 5
Dec 05, Issue 2-0

EMERGENCY ACTION PLAN - E J BEARDMORE DAM

Beardmore DAM EAP — **Sheet 1 (Flood Operation)**

Visual Inspection and Storage Report
Note: See reverse side for instruction**

Date: 30/12/10

	SUN	MON	TUE	WED	THU	FRI	SAT
Stored Water Level F.S.L 207.12m.					207.09		
Tail Water Level m.					201.60		
Daily Rainfall (mm) Morning 9am							
Evening 3pm							

STAGE 1 Fill Table 1 (Record of Gate Operation)	STAGE 2, 3, 4, 5 and 6 Fill Table 1 & 2 and Visual Inspection sheet (Frequency **)		
Gauging Station	**Beardmore**	**Cashmere**	**Weribone**
Morning 9 am	207.09	5.42	12.18
Evening 3pm	207.08	5.50	12.19

Visual Inspection	First Inspection	Second Inspection (+6 hrs)	Third Inspection (+12 hrs)
Visual Inspection (Walk OR Drive at 10 km/hour. Write 'W' for walk and 'D' for Drive)			
Spillway Gate / Dissipator			
Erosion, damage to concrete, misalignment of gates	✓	✓	
Irrigation Control Structure			
Cracks, concrete deterioration	✓	✓	
Embankments			
Left Embankment: Cracks, subsidence in pavement	✓	✓	
Right Embankment: Cracks, subsidence in pavement	✓	✓	
Upstream Face: (Use binoculars)			
Settlement	✓	✓	
Displacement of riprap material	✓	✓	
Downstream face:			
Subsidence, slides, erosion	✓	✓	
Sign of seepage	✓	✓	
Area Downstream of Dam:			
Seepage from any location apart from seepage pt:	✓	✓	
Lower Gallery Access: (Inspect if it is safe to do so)			
Cracks, seepage increase			
Seepage: Seepage water Clear or Turbid (Tick for clear)			
Jack Taylor Weir **By St. George Office**	Gate Fully open	Gates ..... % open	
Erosion, damage to concrete			

Details of significant changes. New occurrences and matter warranting further attention .....

Inspecting Officer's initial [redacted]

(tick if faxed) Fax to

	Technical Services Engineer [redacted]
	Manager Operations Ipswich [redacted]
	Manager Dam Safety [redacted]

SunWater
Section 6A: Page 1 of 5
Dec 05, Issue 2-0

EMERGENCY ACTION PLAN - E J BEARDMORE DAM

Beardmore DAM EAP — **Sheet 1 (Flood Operation)**

Visual Inspection and Storage Report
Note: See reverse side for Instruction**

Date: 31 12 10

	SUN	MON	TUE	WED	THU	FRI	SAT
Stored Water Level F.S.L 207.12m.						207.15	
'Tail Water Level m.						201.98	
Daily Rainfall (mm) Morning 9am							
Evening 3pm							

STAGE 1 Fill Table 1 (Record of Gate Operation)	STAGE 2, 3, 4, 5 and 6 Fill Table 1 & 2 and Visual Inspection sheet (Frequency **)		
Gauging Station	Beardmore	Cashmere	Weribone
Morning 9 am	207.15	5.99	12.45
Evening 3pm	207.14		

Visual Inspection	First Inspection	Second Inspection (+6 hrs)	Third Inspection (+12 hrs)
Visual Inspection (Walk OR Drive at 10 km/hour. Write 'W' for walk and 'D' for Drive)	DRIVE	DRIVE	DRIVE
Spillway Gate / Dissipator			
Erosion, damage to concrete, misalignment of gates	✓	✓	✓
Irrigation Control Structure			
Cracks, concrete deterioration	✓	✓	✓
Embankments			
Left Embankment: Cracks, subsidence in pavement	✓	✓	✓
Right Embankment: Cracks, subsidence in pavement	✓	✓	✓
Upstream Face: (Use binoculars)			
Settlement	✓	✓	✓
Displacement of riprap material	✓	✓	✓
Downstream face:			
Subsidence, slides, erosion	✓	✓	✓
Sign of seepage	✓	✓	✓
Area Downstream of Dam:			
Seepage from any location apart from seepage pt:	✓	✓	✓
Lower Gallery Access: (Inspect if it is safe to do so)			
Cracks, seepage increase			
Seepage: Seepage water Clear or Turbid (Tick for clear)			
Jack Taylor Weir By St. George Office	Gate Fully open	Gates ..... % open	
Erosion, damage to concrete			

Details of significant changes. New occurrences and matter warranting further attention .....

Inspecting Officer's initial [redacted]
(tick if faxed) Fax to
- Technical Services Engineer [redacted]
- Manager Operations Ipswich [redacted]
- Manager Dam Safety [redacted]

SunWater
Section 6A: Page 1 of 5
Dec 05, Issue 2.0

EJ BEARDMORE DAM EAP — Flood Operation

Visual Inspection and Storage Report
Note: Refer to Page 2 for recording instructions **

Date: 1-1-011

	SUN	MON	TUE	WED	THU	FRI	SAT
Stored Water Level FSL **207.12** m							207.15
Tail Water Level m							202.65
Daily Rainfall (mm) Morning 9am							–
Evening 3pm							–

	STAGE 1 Complete Table 1 (Pg 3 - Record of Gate Operation)	STAGE 2, 3, 4, 5 and 6 Complete Tables 1 & 2 (Pgs 3 & 4) and Visual Inspection section		
	Gauging Station	**Beardmore**	**Cashmere**	**Weribone**
	1:00 AM 3:00 AM Morning ~~9~~ am	207.15	6.3	12.6
	5:00 AM 7:00 AM ~~Evening 3 pm~~	207.14	6.4	12.7

Visual Inspection	First Inspection	Second Inspection (+6 hrs)	Third Inspection (+12 hrs)
Visual Inspection (Walk OR Drive at 10 km/hour. Write 'W' for walk and 'D' for Drive)	WALK	WALK	WALK
Spillway Gate / Dissipator			
Erosion, damage to concrete, misalignment of gates	✓	✓	✓
Irrigation Control Structure			
Cracks, concrete deterioration	✓	✓	✓
Embankments			
Left Embankment: Cracks, subsidence in pavement	✓	✓	✓
Right Embankment: Cracks, subsidence in pavement	✓	✓	✓
Upstream Face: (Use binoculars)			
Settlement	✓	✓	✓
Displacement of riprap material	✓	✓	✓
Downstream face:			
Subsidence, slides, erosion	✓	✓	✓
Sign of seepage	✓	✓	✓
Area Downstream of Dam:			
Seepage from any location apart from seepage pt:	✓	✓	✓
Lower Gallery Access: (Inspect if it is safe to do so)			
Cracks, seepage increase			
Seepage: Seepage water Clear or Turbid (Tick for clear)			
Jack Taylor Weir By St. George Office	Gate Fully open	Gates ..... % open	
Erosion, damage to concrete			

Details of significant changes. New occurrences and matter warranting further attention .....

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Inspecting Officer's initials [redacted]

Fax to (tick if faxed)

Asset Engineering Manager / Service Delivery Manager [redacted]

Principal Engineer (Dam Safety) [redacted]

SunWater
Section 6A: Page 1 of 5
Jan 08, Issue 2-1

EJ BEARDMORE DAM EAP — Flood Operation

Visual Inspection and Storage Report
Note: Refer to Page 2 for recording instructions **

Date: 02-01-11

	SUN	MON	TUE	WED	THU	FRI	SAT
Stored Water Level FSL **207.12** m							207.16
Tail Water Level m							206.88
Daily Rainfall (mm) Morning 9am							
Evening 3pm							

	STAGE 1 Complete Table 1 (Pg 3 - Record of Gate Operation)	STAGE 2, 3, 4, 5 and 6 Complete Tables 1 & 2 (Pgs 3 & 4) and Visual Inspection section		
	Gauging Station	**Beardmore**	**Cashmere**	**Weribone**
	Morning 9 am	207.14	6.09	12.83
	Evening 3 pm	207.14	6.61	12.96

Visual Inspection	First Inspection	Second Inspection (+6 hrs)	Third Inspection (+12 hrs)
Visual Inspection (Walk OR Drive at 10 km/hour. Write 'W' for walk and 'D' for Drive)	W	D	W
Spillway Gate / Dissipator			
Erosion, damage to concrete, misalignment of gates	✓	✓	✓
Irrigation Control Structure			
Cracks, concrete deterioration	✓	✓	✓
Embankments			
Left Embankment: Cracks, subsidence in pavement	✓	✓	✓
Right Embankment: Cracks, subsidence in pavement	✓	✓	✓
Upstream Face: (Use binoculars)			
Settlement	✓	✓	✓
Displacement of riprap material	✓	✓	✓
Downstream face:			
Subsidence, slides, erosion	✓	✓	✓
Sign of seepage	✓	✓	✓
Area Downstream of Dam:			
Seepage from any location apart from seepage pt:	✓	✓	✓
Lower Gallery Access: (Inspect if it is safe to do so)			
Cracks, seepage increase			
Seepage: Seepage water Clear or Turbid (Tick for clear)			
Jack Taylor Weir **By St. George Office**	Gate Fully open	Gates ..... % open	
Erosion, damage to concrete			

Details of significant changes. New occurrences and matter warranting further attention .....

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Inspecting Officer's initials [redacted]

Fax to (tick if faxed)

Asset Engineering Manager / Service Delivery Manager [redacted]

Principal Engineer (Dam Safety) [redacted]

SunWater
Section 6A: Page 1 of 5
Jan 08, Issue 2-1

EJ BEARDMORE DAM EAP — Flood Operation

Visual Inspection and Storage Report
Note: Refer to Page 2 for recording instructions **

Date: 2/11/11

	SUN	MON	TUE	WED	THU	FRI	SAT
Stored Water Level FSL 207.12 m	207.16						
Tail Water Level m	203.25						
Daily Rainfall (mm) Morning 9am							
Evening 3pm							

	STAGE 1 Complete Table 1 (Pg 3 - Record of Gate Operation)	STAGE 2, 3, 4, 5 and 6 Complete Tables 1 & 2 (Pgs 3 & 4) and Visual Inspection section		
	Gauging Station	Beardmore	Cashmere	Weribone
	01:00 AM Morning ~~9~~ am	207.16	6.7	13.1
	05:00 AM Evening ~~3 pm~~	207.15	6.7	13.1

Visual Inspection	First Inspection	Second Inspection (+6 hrs)	Third Inspection (+12 hrs)
Visual Inspection (Walk OR Drive at 10 km/hour. Write 'W' for walk and 'D' for Drive)	WALK	WALK	WALK
Spillway Gate / Dissipator			
Erosion, damage to concrete, misalignment of gates	✓	✓	✓
Irrigation Control Structure			
Cracks, concrete deterioration	✓	✓	✓
Embankments			
Left Embankment: Cracks, subsidence in pavement	✓	✓	✓
Right Embankment: Cracks, subsidence in pavement	✓	✓	✓
Upstream Face: (Use binoculars)			
Settlement	✓	✓	✓
Displacement of riprap material	✓	✓	✓
Downstream face:			
Subsidence, slides, erosion	✓	✓	✓
Sign of seepage	✓	✓	✓
Area Downstream of Dam:			
Seepage from any location apart from seepage pt:	✓	✓	✓
Lower Gallery Access: (Inspect if it is safe to do so)			
Cracks, seepage increase			
Seepage: Seepage water Clear or Turbid (Tick for clear)			
Jack Taylor Weir By St. George Office	Gate Fully open	Gates ..... % open	
Erosion, damage to concrete			

Details of significant changes. New occurrences and matter warranting further attention .....

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Inspecting Officer's initials [redacted]

Fax to (tick if faxed)		
		Asset Engineering Manager / Service Delivery Manager [redacted]
		Principal Engineer (Dam Safety) [redacted]

SunWater
Section 6A: Page 1 of 5
Jan 08, Issue 2-1

EJ BEARDMORE DAM EAP — Flood Operation

Visual Inspection and Storage Report
Note: Refer to Page 2 for recording instructions **

Date: 4/1/11

	SUN	MON	TUE	WED	THU	FRI	SAT
Stored Water Level FSL **207.12** m	207.15						
Tail Water Level m	204.56						
Daily Rainfall (mm) Morning 9am							
Evening 3pm							

	STAGE 1 Complete Table 1 (Pg 3 - Record of Gate Operation)	STAGE 2, 3, 4, 5 and 6 Complete Tables 1 & 2 (Pgs 3 & 4) and Visual inspection section		
	Gauging Station	**Beardmore**	**Cashmere**	**Weribone**
	Morning 9 am	207.15	6.5	13.16
	Evening 3 pm		6.75	N.A.

Visual Inspection	First Inspection	Second Inspection (+6 hrs)	Third Inspection (+12 hrs)
Visual Inspection (Walk OR Drive at 10 km/hour. Write 'W' for walk and 'D' for Drive)	D	D	W
Spillway Gate / Dissipator			
Erosion, damage to concrete, misalignment of gates	✓	✓	✓
Irrigation Control Structure			
Cracks, concrete deterioration	✓	✓	✓
Embankments			
Left Embankment: Cracks, subsidence in pavement	✓	✓	✓
Right Embankment: Cracks, subsidence in pavement	✓	✓	✓
Upstream Face: (Use binoculars)			
Settlement	✓	✓	✓
Displacement of riprap material	✓	✓	✓
Downstream face:			
Subsidence, slides, erosion	✓	✓	✓
Sign of seepage	✓	✓	✓
Area Downstream of Dam:			
Seepage from any location apart from seepage pt:	Nil	Nil	NIL
Lower Gallery Access: (Inspect if it is safe to do so)			
Cracks, seepage increase			
Seepage: Seepage water Clear or Turbid (Tick for clear)			
Jack Taylor Weir By St. George Office	Gate Fully open	Gates ..... % open	
Erosion, damage to concrete			

Details of significant changes. New occurrences and matter warranting further attention INSPECTION 6Pm
DAM EL. 207.11 TW 204.00.

Inspecting Officer's initials [redacted]

Fax to (tick if faxed)
Asset Engineering Manager / Service Delivery Manager [redacted]
Principal Engineer (Dam Safety [redacted]

SunWater
Section 6A: Page 1 of 5
Jan 08, Issue 2-1

EJ BEARDMORE DAM EAP — Flood Operation

Visual Inspection and Storage Report
Note: Refer to Page 2 for recording instructions **

Date: 3-1-11

	SUN	MON	TUE	WED	THU	FRI	SAT
Stored Water Level FSL **207.12** m		207.13					
Tail Water Level m		204.5					
Daily Rainfall (mm) Morning 9am	–						
Evening 3pm							

	STAGE 1 Complete Table 1 (Pg 3 - Record of Gate Operation)	STAGE 2, 3, 4, 5 and 6 Complete Tables 1 & 2 (Pgs 3 & 4) and Visual Inspection section		
	Gauging Station	**Beardmore**	**Cashmere**	**Weribone**
	12:15 AM Morning 9 am	207.13	6.5.7	13.1.5
	06:00 AM Evening 3 pm	207.13	6.4.3	13.1.5

Visual Inspection	First Inspection	Second Inspection (+6 hrs)	Third Inspection (+12 hrs)
Visual Inspection (Walk OR Drive at 10 km/hour. Write 'W' for walk and 'D' for Drive)	W	W	D
Spillway Gate / Dissipator			
Erosion, damage to concrete, misalignment of gates	✓	✓	✓
Irrigation Control Structure			
Cracks, concrete deterioration	✓	✓	✓
Embankments			
Left Embankment: Cracks, subsidence in pavement	✓	✓	✓
Right Embankment: Cracks, subsidence in pavement	✓	✓	✓
Upstream Face: (Use binoculars)			
Settlement	✓	✓	✓
Displacement of riprap material	✓	✓	✓
Downstream face:			
Subsidence, slides, erosion	✓	✓	✓
Sign of seepage	✓	✓	✓
Area Downstream of Dam:			
Seepage from any location apart from seepage pt:	N/A	N/A	N/A
Lower Gallery Access: (Inspect if it is safe to do so)			
Cracks, seepage increase			
Seepage: Seepage water Clear or Turbid (Tick for clear)			
Jack Taylor Weir By St. George Office	Gate Fully open	Gates ..... % open	
Erosion, damage to concrete			

Details of significant changes. New occurrences and matter warranting further attention .....

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Inspecting Officer's initials [redacted]

Fax to (tick if faxed)

Asset Engineering Manager / Service Delivery Manager [redacted]

Principal Engineer (Dam Safety) [redacted]

SunWater
Section 6A: Page 1 of 5
Jan 08, Issue 2-1

EJ BEARDMORE DAM EAP — Flood Operation

Visual Inspection and Storage Report
Note: Refer to Page 2 for recording instructions **

Date: 3-1-11

	SUN	MON	TUE	WED	THU	FRI	SAT
Stored Water Level FSL 207.12 m		207.18					
Tail Water Level m		204.95					
Daily Rainfall (mm) Morning 9am							
Evening 3pm							

	STAGE 1 Complete Table 1 (Pg 3 - Record of Gate Operation)	STAGE 2, 3, 4, 5 and 6 Complete Tables 1 & 2 (Pgs 3 & 4) and Visual Inspection section		
	Gauging Station	Beardmore	Cashmere	Weribone
	Morning 9 am	207.13	6.35	13.17
	Evening 3 pm	207.10	6.04	13.22

Visual Inspection	First Inspection 12:00hrs	Second Inspection (+6 hrs)	Third Inspection (+12 hrs)
Visual Inspection (Walk OR Drive at 10 km/hour. Write 'W' for walk and 'D' for Drive)	W.	D+W	
Spillway Gate / Dissipator			
Erosion, damage to concrete, misalignment of gates	✓	✓	✓
Irrigation Control Structure			
Cracks, concrete deterioration	✓	✓	✓
Embankments			
Left Embankment: Cracks, subsidence in pavement	✓	✓	✓
Right Embankment: Cracks, subsidence in pavement	✓	✓	✓
Upstream Face: (Use binoculars)			
Settlement	✓	✓	✓
Displacement of riprap material	✓	✓	✓
Downstream face:			
Subsidence, slides, erosion	✓	✓	✓
Sign of seepage	✓ NIL	✓ NIL	NIL
Area Downstream of Dam:			
Seepage from any location apart from seepage pt:	NIL	NIL	NIL
Lower Gallery Access: (Inspect if it is safe to do so)			
Cracks, seepage increase			
Seepage: Seepage water Clear or Turbid (Tick for clear)			
Jack Taylor Weir By St. George Office	Gate Fully open	Gates ..... % open	
Erosion, damage to concrete			

Details of significant changes. New occurrences and matter warranting further attention ....6 Pm INSPECTION
DAM EL. 207.09 TAILWATER 204.55.

Inspecting Officer's initials [redacted]

Fax to (tick if faxed)
Asset Engineering Manager / Service Delivery Manager [redacted]
Principal Engineer (Dam Safety) [redacted]

SunWater
Section 6A: Page 1 of 5
Jan 08, Issue 2-1

EU BEARDMORE DAM EAP — **Flood Operation**

Visual Inspection and Storage Report
Note: Refer to Page 2 for recording instructions **

Date: 8-1-11

	SUN	MON	TUE	WED	THU	FRI	SAT
Stored Water Level FSL 207.12 m		207.14					
Tail Water Level m		204.93					
Daily Rainfall (mm) Morning 9am							
Evening 3pm							

	STAGE 1 Complete Table 1 (Pg 3 - Record of Gate Operation)	STAGE 2, 3, 4, 5 and 6 Complete Tables 1 & 2 (Pgs 3 & 4) and Visual Inspection section		
	Gauging Station	Beardmore	Cashmere	Weribone
	Morning 9 am	207.13	6.35	13.17
	Evening 3 pm	207.10	6.04	13.22

Visual Inspection	First Inspection 10:00hrs	Second Inspection (+6 hrs)	Third Inspection (+12 hrs)
Visual Inspection (Walk OR Drive at 10 km/hour. Write 'W' for walk and 'D' for Drive)	W.		
Spillway Gate / Dissipator			
Erosion, damage to concrete, misalignment of gates	✓		
Irrigation Control Structure			
Cracks, concrete deterioration	✓		
Embankments			
Left Embankment: Cracks, subsidence in pavement	✓		
Right Embankment: Cracks, subsidence in pavement	✓		
Upstream Face: (Use binoculars)			
Settlement	✓		
Displacement of riprap material	✓		
Downstream face:			
Subsidence, slides, erosion	✓		
Sign of seepage	✓ Nil		
Area Downstream of Dam:			
Seepage from any location apart from seepage pt:	Nil		
Lower Gallery Access: (Inspect if it is safe to do so)			
Cracks, seepage increase			
Seepage: Seepage water Clear or Turbid (Tick for clear)			
Jack Taylor Weir By St. George Office	Gate Fully open	Gates ..... % open	
Erosion, damage to concrete			

Details of significant changes. New occurrences and matter warranting further attention .....

Inspecting Officer's Initials [redacted]

Fax to (tick if faxed)

Asset Engineering Manager / Service Delivery Manager [redacted]

Principal Engineer (Dam Safety) [redacted]

SunWater
Section 6A: Page 1 of 5
Jan 08 Issue 2.1

03-JAN-2011 15:22 SUNWATER BEARDMORE DAM [redacted] P. 1

EU BEARDMORE DAM EAP — **Flood Operations**

Visual Inspection and Storage Report
Note: Refer to Page 2 for recording instructions **

Date: 3/1/11

	SUN	MON	TUE	WED	THU	FRI	SAT
Stored Water Level FSL 207.12 m		207.14					
Tail Water Level m		204.93					
Daily Rainfall (mm) Morning 9am							
Evening 3pm							

	STAGE 1 Complete Table 1 (Pg 3 - Record of Gate Operation)	STAGE 2, 3, 4, 5 and 6 Complete Tables 1 & 2 (Pgs 3 & 4) and Visual Inspection section		
	Gauging Station	Beardmore	Cashmere	Weribone
	Morning 9 am	207.13	6.35	13.17
	Evening 3 pm	207.10	6.04	13.22

Visual Inspection	First Inspection 12:00hrs	Second Inspection (+6 hrs)	Third Inspection (+12 hrs)
Visual Inspection (Walk OR Drive at 10 km/hour. Write 'W' for walk and 'D' for Drive)	W.	D+W	
Spillway Gate / Dissipator			
Erosion, damage to concrete, misalignment of gates	✓	✓	
Irrigation Control Structure			
Cracks, concrete deterioration	✓	✓	
Embankments			
Left Embankment: Cracks, subsidence in pavement	✓	✓	
Right Embankment: Cracks, subsidence in pavement	✓	✓	
Upstream Face: (Use binoculars)			
Settlement	✓	✓	
Displacement of riprap material	✓	✓	
Downstream face:			
Subsidence, slides, erosion	✓	✓	
Sign of seepage	✓ NIL	✓ NIL	
Area Downstream of Dam:			
Seepage from any location apart from seepage pt:	NIL	NIL	
Lower Gallery Access: (Inspect if it is safe to do so)			
Cracks, seepage increase			
Seepage: Seepage water Clear or Turbid (Tick for clear)			
Jack Taylor Weir By St. George Office	Gate Fully open	Gates ..... % open	
Erosion, damage to concrete			

Details of significant changes. New occurrences and matter warranting further attention ....6 Pm INSPECTION
DAM EL. 207.09 TAILWATER 204.55.

Inspecting Officer's initials [redacted]

Fax to (tick if faxed)
Asset Engineering Manager / Service Delivery Manager [redacted]
Principal Engineer (Dam Safety) [redacted]

SunWater
Section 6A: Page 1 of 5
Jan 08, Issue 2-1

03-JAN-2011 18:55 SUNWATER BEARDMORE DAM [redacted] P. 3

EJ BEARDMORE DAM EAP — Flood Operation

Visual Inspection and Storage Report
Note: Refer to Page 2 for recording instructions **

Date: [illegible]

	SUN	MON	TUE	WED	THU	FRI	SAT
Stored Water Level FSL 207.12 m			207.10				
Tail Water Level m			104.57				
Daily Rainfall (mm) Morning 9am			—				
Evening 3pm							

	STAGE 1 Complete Table 1 (Pg 3 - Record of Gate Operation)	STAGE 2, 3, 4, 5 and 6 Complete Tables 1 & 2 (Pgs 3 & 4) and Visual Inspection section		
	Gauging Station	Beardmore	Cashmere	Weribone
	12:15 A.M. Morning 9 am	207.10	5.5.4	13.33
	0 6 PM. Evening 3 pm	207.10	5.5.6	13.35

Visual Inspection	First Inspection	Second Inspection (+6 hrs)	Third Inspection (+12 hrs)
Visual Inspection (Walk OR Drive at 10 km/hour. Write 'W' for walk and 'D' for Drive)	W	W	
Spillway Gate / Dissipator			
Erosion, damage to concrete, misalignment of gates	✓	✓	
Irrigation Control Structure			
Cracks, concrete deterioration	✓	✓	
Embankments			
Left Embankment: Cracks, subsidence in pavement	✓	✓	
Right Embankment: Cracks, subsidence in pavement	✓	✓	
Upstream Face: (Use binoculars)			
Settlement	✓	✓	
Displacement of riprap material	✓	✓	
Downstream face:			
Subsidence, slides, erosion	✓	✓	
Sign of seepage	✓ NIL	✓ NIL	
Area Downstream of Dam:			
Seepage from any location apart from seepage pt:	✓ NIL	✓ NIL	
Lower Gallery Access: (Inspect if it is safe to do so)			
Cracks, seepage increase			
Seepage: Seepage water Clear or Turbid (Tick for clear)			
Jack Taylor Weir By St. George Office	Gate Fully open	Gates ..... % open	
Erosion, damage to concrete			

Details of significant changes. New occurrences and matter warranting further attention .....

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Inspecting Officer's initials [redacted]

Fax to (tick if faxed) | Asset Engineering Manager / Service Delivery Manager [redacted] | Principal Engineer (Dam Safety) [redacted]

SunWater
Section 6A: Page 1 of 5
Jan 08, Issue 2-1

EJ BEARDMORE DAM EAP — Flood Operation

Visual Inspection and Storage Report
Note: Refer to Page 2 for recording instructions **

Date: 4.01.11

	SUN	MON	TUE	WED	THU	FRI	SAT
Stored Water Level FSL **207.12** m			207.05				
Tail Water Level m			204.73				
Daily Rainfall (mm) Morning 9am							
Evening 3pm							

	STAGE 1 Complete Table 1 (Pg 3 - Record of Gate Operation)	STAGE 2, 3, 4, 5 and 6 Complete Tables 1 & 2 (Pgs 3 & 4) and Visual Inspection section		
	Gauging Station	**Beardmore**	**Cashmere**	**Weribone**
	Morning 9 am	207.11	4.95	13.43
	Evening 3 pm	207.07	4.60	13.47

Visual Inspection	First Inspection 1100	Second Inspection (+6 hrs)	Third Inspection (+12 hrs)
Visual Inspection (Walk OR Drive at 10 km/hour. Write 'W' for walk and 'D' for Drive)	W	D+W	W
Spillway Gate / Dissipator			
Erosion, damage to concrete, misalignment of gates	Nil	NIL	✓ NIL
Irrigation Control Structure			
Cracks, concrete deterioration	Nil	NIL	✓ NIL
Embankments			
Left Embankment: Cracks, subsidence in pavement	Nil	NIL	✓ NIL
Right Embankment: Cracks, subsidence in pavement	Nil	NIL	✓ NIL
Upstream Face: (Use binoculars)			
Settlement	Nil	NIL	✓ NIL
Displacement of riprap material	Nil	NIL	✓ NIL
Downstream face:			—
Subsidence, slides, erosion	Nil	NIL	✓ NIL
Sign of seepage	Nil	NIL	✓ NIL
Area Downstream of Dam:			
Seepage from any location apart from seepage pt:	Nil	NIL	✓ NIL
Lower Gallery Access: (Inspect if it is safe to do so)			
Cracks, seepage increase			
Seepage: Seepage water Clear or Turbid (Tick for clear)			
Jack Taylor Weir **By St. George Office**	Gate Fully open	Gates ..... % open	
Erosion, damage to concrete			

Details of significant changes. New occurrences and matter warranting further attention 6Pm DAM EL 206.96
TAILWATER 204.73

Inspecting Officer's initials [redacted]

Fax to (tick if faxed)

Asset Engineering Manager / Service Delivery Manager [redacted]

Principal Engineer (Dam Safety) [redacted]

SunWater
Section 6A: Page 1 of 5
Jan 08, Issue 2-1

EJ BEARDMORE DAM EAP — Flood Operation

Visual Inspection and Storage Report
Note: Refer to Page 2 for recording instructions **

Date: 5-1-11

	SUN	MON	TUE	WED	THU	FRI	SAT
Stored Water Level FSL **207.12** m				207.04			
Tail Water Level m				205.09			
Daily Rainfall (mm) Morning 9am				32.009			
Evening 3pm							

	STAGE 1 Complete Table 1 (Pg 3 - Record of Gate Operation)	STAGE 2, 3, 4, 5 and 6 Complete Tables 1 & 2 (Pgs 3 & 4) and Visual Inspection section		
	Gauging Station	**Beardmore**	**Cashmere**	**Weribone**
	Morning 9 am	207.01	3.95	13.49
	Evening 3 pm	207.08	3.95	13.47

Visual Inspection	First Inspection	Second Inspection (+6 hrs)	Third Inspection (+12 hrs)
Visual Inspection (Walk OR Drive at 10 km/hour. Write 'W' for walk and 'D' for Drive)	W	W & D	W
Spillway Gate / Dissipator			
Erosion, damage to concrete, misalignment of gates	NIL	NIL	NIL
Irrigation Control Structure			
Cracks, concrete deterioration	NIL	NIL	NIL
Embankments			
Left Embankment: Cracks, subsidence in pavement	NIL	NIL	NIL
Right Embankment: Cracks, subsidence in pavement	NIL	NIL	NIL
Upstream Face: (Use binoculars)			
Settlement	NIL	NIL	NIL
Displacement of riprap material	NIL	NIL	NIL
Downstream face:			
Subsidence, slides, erosion	NIL	NIL	NIL
Sign of seepage	NIL	NIL	NIL
Area Downstream of Dam:			
Seepage from any location apart from seepage pt:	NIL	NIL	NIL
Lower Gallery Access: (Inspect if it is safe to do so)			
Cracks, seepage increase			
Seepage: Seepage water Clear or Turbid (Tick for clear)			
Jack Taylor Weir **By St. George Office**	Gate Fully open	Gates ..... % open	
Erosion, damage to concrete			

Details of significant changes. New occurrences and matter warranting further attention ... 6.1m DAMEL 207.09
TW 205.05

Inspecting Officer's initials [redacted]

Fax to (tick if faxed)
- Asset Engineering Manager / Service Delivery Manager [redacted]
- Principal Engineer (Dam Safety) [redacted]

SunWater
Section 6A: Page 1 of 5
Jan 08, Issue 2-1

EJ BEARDMORE DAM EAP — Flood Operation

Visual Inspection and Storage Report
Note: Refer to Page 2 for recording instructions **

Date: 6-1-11

	SUN	MON	TUE	WED	THU	FRI	SAT
Stored Water Level FSL **207.12** m					207.03		
Tail Water Level m					205.42		
Daily Rainfall (mm) Morning 9am					[redacted]		
Evening 3pm							

	STAGE 1 Complete Table 1 (Pg 3 - Record of Gate Operation)	STAGE 2, 3, 4, 5 and 6 Complete Tables 1 & 2 (Pgs 3 & 4) and Visual Inspection section		
	Gauging Station	**Beardmore**	**Cashmere**	**Weribone**
	Morning 9 am	207.10	3.73	13.35
	Evening 3 pm	/	3.65	13.34

Visual Inspection	First Inspection 18.10 hrs	Second Inspection (+6 hrs)	Third Inspection (+12 hrs)
Visual Inspection (Walk OR Drive at 10 km/hour. Write 'W' for walk and 'D' for Drive)	W	D	
Spillway Gate / Dissipator			
Erosion, damage to concrete, misalignment of gates	NIL	NIL	NIL
Irrigation Control Structure			
Cracks, concrete deterioration	NIL	NIL	NIL
Embankments			
Left Embankment: Cracks, subsidence in pavement	NIL	NIL	NIL
Right Embankment: Cracks, subsidence in pavement	NIL	NIL	NIL
Upstream Face: (Use binoculars)			
Settlement	NIL	NIL	NIL
Displacement of riprap material	NIL	NIL	NIL
Downstream face:			
Subsidence, slides, erosion	NIL	NIL	NIL
Sign of seepage	NIL	NIL	NIL
Area Downstream of Dam:			
Seepage from any location apart from seepage pt:	NIL	NIL	NIL
Lower Gallery Access: (Inspect if it is safe to do so)			
Cracks, seepage increase			
Seepage: Seepage water Clear or Turbid (Tick for clear)			
Jack Taylor Weir By St. George Office	Gate Fully open	Gates ..... % open	
Erosion, damage to concrete			

Details of significant changes. New occurrences and matter warranting further attention ... 6Pm Dam EL 207.0 TAILWATER 205.60

Inspecting Officer's initials [redacted]

Fax to (tick if faxed)
- Asset Engineering Manager / Service Delivery Manager [redacted]
- Principal Engineer (Dam Safety [redacted]

SunWater
Section 6A: Page 1 of 5
Jan 08, Issue 2-1

EJ BEARDMORE DAM EAP — **Flood Operation**

Visual Inspection and Storage Report
Note: Refer to Page 2 for recording instructions **

Date: 7-2-11

	SUN	MON	TUE	WED	THU	FRI	SAT
Stored Water Level FSL 207.12 m						207.10	
Tail Water Level m						203.95	
Daily Rainfall (mm) Morning 9am							
Evening 3pm							

	STAGE 1 Complete Table 1 (Pg 3 - Record of Gate Operation)	STAGE 2, 3, 4, 5 and 6 Complete Tables 1 & 2 (Pgs 3 & 4) and Visual Inspection section		
	Gauging Station	Beardmore	Cashmere	Weribone
	Morning 9 am	207.10	3.03	1320
	Evening 3 pm	207.12	3.35	1315

Visual Inspection	First Inspection	Second Inspection (+6 hrs)	Third Inspection (+12 hrs)
Visual Inspection (Walk OR Drive at 10 km/hour. Write 'W' for walk and 'D' for Drive)	W	W	D
Spillway Gate / Dissipator			
Erosion, damage to concrete, misalignment of gates	NIL	NIL	NIL
Irrigation Control Structure			
Cracks, concrete deterioration	NIL	NIL	NIL
Embankments			
Left Embankment: Cracks, subsidence in pavement	NIL	NIL	NIL
Right Embankment: Cracks, subsidence in pavement	NIL	NIL	NIL
Upstream Face: (Use binoculars)			
Settlement	NIL	NIL	NIL
Displacement of riprap material	NIL	NIL	NIL
Downstream face:			
Subsidence, slides, erosion	NIL	NIL	NIL
Sign of seepage	NIL	NIL	NIL
Area Downstream of Dam:			
Seepage from any location apart from seepage pt:	NIL	NIL	NIL
Lower Gallery Access: (Inspect if it is safe to do so)			
Cracks, seepage increase			
Seepage: Seepage water Clear or Turbid (Tick for clear)			
Jack Taylor Weir **By St. George Office**	Gate Fully open	Gates ..... % open	
Erosion, damage to concrete			

Details of significant changes. New occurrences and matter warranting further attention .....

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..... [redacted]

Inspecting Officer's initials [redacted]

Fax to (tick if faxed)

Asset Engineering Manager / Service Delivery Manager [redacted]

Principal Engineer (Dam Safety) [redacted]

SunWater
Section 6A: Page 1 of 5
Jan 08, Issue 2-1

EJ BEARDMORE DAM EAP **Flood Operation**

Visual Inspection and Storage Report
Note: Refer to Page 2 for recording instructions **

Date: 8.11.11

	SUN	MON	TUE	WED	THU	FRI	SAT
Stored Water Level FSL **207.12** m							207.12
Tail Water Level m							206.10
Daily Rainfall (mm) Morning 9am							
Evening 3pm							

	STAGE 1 Complete Table 1 (Pg 3 - Record of Gate Operation)	STAGE 2, 3, 4, 5 and 6 Complete Tables 1 & 2 (Pgs 3 & 4) and Visual Inspection section		
	Gauging Station	**Beardmore**	**Cashmere**	**Weribone**
	12.00 am Morning ~~9~~ am	206.12	3.27	13.00
	6.00 am ~~Evening 3 pm~~	207.11	3.23	13.01

Visual Inspection	First Inspection	Second Inspection (+6 hrs)	Third Inspection (+12 hrs)
Visual Inspection (Walk OR Drive at 10 km/hour. Write 'W' for walk and 'D' for Drive)			
Spillway Gate / Dissipator			
Erosion, damage to concrete, misalignment of gates	NIL	NIL	NIL
Irrigation Control Structure			
Cracks, concrete deterioration	NIL	NIL	NIL
Embankments			
Left Embankment: Cracks, subsidence in pavement	NIL	NIL	NIL
Right Embankment: Cracks, subsidence in pavement	NIL	NIL	NIL
Upstream Face: (Use binoculars)			
Settlement	NIL	NIL	NIL
Displacement of riprap material	NIL	NIL	NIL
Downstream face:			
Subsidence, slides, erosion	NIL	NIL	NIL
Sign of seepage	NIL	NIL	NIL
Area Downstream of Dam:			
Seepage from any location apart from seepage pt:			
Lower Gallery Access: (Inspect if it is safe to do so)			
Cracks, seepage increase			
Seepage: Seepage water Clear or Turbid (Tick for clear)			
Jack Taylor Weir **By St. George Office**	Gate Fully open	Gates ..... % open	
Erosion, damage to concrete			

Details of significant changes. New occurrences and matter warranting further attention 6pm DAM EL 207.09. TW 206.24.

Inspecting Officer's initials [redacted]

Fax to (tick if faxed)
Asset Engineering Manager / Service Delivery Manager [redacted]
Principal Engineer (Dam Safety) [redacted]

SunWater
Section 6A: Page 1 of 5
Jan 08, Issue 2-1

EJ BEARDMORE DAM EAP — **Flood Operation**

Visual Inspection and Storage Report
Note: Refer to Page 2 for recording instructions **

Date: 5.2.11

	SUN	MON	TUE	WED	THU	FRI	SAT
Stored Water Level FSL **207.12** m							207.11
Tail Water Level m							206.19
Daily Rainfall (mm) Morning 9am							
Evening 3pm							

	STAGE 1 Complete Table 1 (Pg 3 - Record of Gate Operation)	STAGE 2, 3, 4, 5 and 6 Complete Tables 1 & 2 (Pgs 3 & 4) and Visual Inspection section		
	Gauging Station	**Beardmore**	**Cashmere**	**Weribone**
	Morning 9 am	207.11	3.21	10.27
	Evening 3 pm	207.09	3.15	12.33

Visual Inspection	First Inspection	Second Inspection (+6 hrs)	Third Inspection (+12 hrs)
Visual Inspection (Walk OR Drive at 10 km/hour. Write 'W' for walk and 'D' for Drive)	D	W	
Spillway Gate / Dissipator			
Erosion, damage to concrete, misalignment of gates	✓	✓	
Irrigation Control Structure			
Cracks, concrete deterioration	NIL	NIL	
Embankments			
Left Embankment: Cracks, subsidence in pavement	NIL	NIL	
Right Embankment: Cracks, subsidence in pavement	NIL	NIL	
Upstream Face: (Use binoculars)			
Settlement	NIL	NIL	
Displacement of riprap material	NIL	NIL	
Downstream face:			
Subsidence, slides, erosion	NIL	NIL	
Sign of seepage	NIL	NIL	
Area Downstream of Dam:			
Seepage from any location apart from seepage pt:	NIL	NIL	
Lower Gallery Access: (Inspect if it is safe to do so)			
Cracks, seepage increase			
Seepage: Seepage water Clear or Turbid (Tick for clear)			
Jack Taylor Weir **By St. George Office**	Gate Fully open	Gates ..... % open	
Erosion, damage to concrete			

Details of significant changes. New occurrences and matter warranting further attention .....

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Inspecting Officer's initials [redacted]

Fax to (tick if faxed) ☐ Asset Engineering Manager / Service Delivery Manager [redacted]

☐ Principal Engineer (Dam Safety) [redacted]

SunWater
Section 6A: Page 1 of 5
Jan 08, Issue 2-1

EJ BEARDMORE DAM EAP **Flood Operation**

Visual Inspection and Storage Report
Note: Refer to Page 2 for recording instructions **

Date: 2-1-11

	SUN	MON	TUE	WED	THU	FRI	SAT
Stored Water Level FSL **207.12** m	207.11						
Tail Water Level m	206.25						
Daily Rainfall (mm) Morning 9am							
Evening 3pm							

	STAGE 1 Complete Table 1 (Pg 3 - Record of Gate Operation)	STAGE 2, 3, 4, 5 and 6 Complete Tables 1 & 2 (Pgs 3 & 4) and Visual Inspection section		
	Gauging Station	**Beardmore**	**Cashmere**	**Weribone**
	Morning 9 am	207.09	3.43	12.77
	Evening 3 pm	207.10	3.54	12.71

Visual Inspection	First Inspection	Second Inspection (+6 hrs)	Third Inspection (+12 hrs)
Visual Inspection (Walk OR Drive at 10 km/hour. Write 'W' for walk and 'D' for Drive)	D	W + D	
Spillway Gate / Dissipator			
Erosion, damage to concrete, misalignment of gates	N/L	NIL	
Irrigation Control Structure			
Cracks, concrete deterioration	N/L	NIL	
Embankments			
Left Embankment: Cracks, subsidence in pavement	N/L	NIL	
Right Embankment: Cracks, subsidence in pavement	N/L	NIL	
Upstream Face: (Use binoculars)			
Settlement	N/L	NIL	
Displacement of riprap material	N/L	NIL	
Downstream face:			
Subsidence, slides, erosion	N/L	NIL	
Sign of seepage	N/L	NIL	
Area Downstream of Dam:			
Seepage from any location apart from seepage pt:	N/L	NIL	
Lower Gallery Access: (Inspect if it is safe to do so)			
Cracks, seepage increase			
Seepage: Seepage water Clear or Turbid (Tick for clear)			
Jack Taylor Weir **By St. George Office**	Gate Fully open	Gates ..... % open	
Erosion, damage to concrete			

Details of significant changes. New occurrences and matter warranting further attention ... 6 Pm DAM EL 207.08 TW 206.23.

Inspecting Officer's initials [redacted]

Fax to (tick if faxed)
- Asset Engineering Manager / Service Delivery Manager [redacted]
- Principal Engineer (Dam Safety) [redacted]

SunWater
Section 6A: Page 1 of 5
Jan 08. Issue 2-1

EJ BEARDMORE DAM EAP — **Flood Operation**

Visual Inspection and Storage Report
Note: Refer to Page 2 for recording instructions **

Date: 9-11-11

	SUN	MON	TUE	WED	THU	FRI	SAT
Stored Water Level FSL **207.12** m	207,00						
Tail Water Level m	206,35						
Daily Rainfall (mm) Morning 9am							
Evening 3pm							

	STAGE 1 Complete Table 1 (Pg 3 - Record of Gate Operation)	STAGE 2, 3, 4, 5 and 6 Complete Tables 1 & 2 (Pgs 3 & 4) and Visual Inspection section		
	Gauging Station	**Beardmore**	**Cashmere**	**Weribone**
	12:15 AM Morning ~~9 am~~	207,00	3 22.	12 85
	6:00 AM Evening ~~3 pm~~	207,10	3 36	12 82.

Visual Inspection	First Inspection	Second Inspection (+6 hrs)	Third Inspection (+12 hrs)
Visual Inspection (Walk OR Drive at 10 km/hour. Write 'W' for walk and 'D' for Drive)			
Spillway Gate / Dissipator			
Erosion, damage to concrete, misalignment of gates	✓	✓	
Irrigation Control Structure			
Cracks, concrete deterioration	NIL	NIL	
Embankments			
Left Embankment: Cracks, subsidence in pavement	NIL	NIL	
Right Embankment: Cracks, subsidence in pavement	NIL	NIL	
Upstream Face: (Use binoculars)			
Settlement	NIL	NIL	
Displacement of riprap material	NIL	NIL	
Downstream face:			
Subsidence, slides, erosion	NIL	NIL	
Sign of seepage	NIL	NIL	
Area Downstream of Dam:			
Seepage from any location apart from seepage pt:	NIL	NIL	
Lower Gallery Access: (Inspect if it is safe to do so)			
Cracks, seepage increase			
Seepage: Seepage water Clear or Turbid (Tick for clear)			
Jack Taylor Weir **By St. George Office**	Gate Fully open	Gates ..... % open	
Erosion, damage to concrete			

Details of significant changes. New occurrences and matter warranting further attention .....

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Inspecting Officer's initials [redacted]

Fax to (tick if faxed) — Asset Engineering Manager / Service Delivery Manager [redacted] — Principal Engineer (Dam Safety) [redacted]

SunWater
Section 6A: Page 1 of 5
Jan 08, Issue 2-1

EJ BEARDMORE DAM EAP — **Flood Operation**

Visual Inspection and Storage Report
Note: Refer to Page 2 for recording instructions **

Date: 10/1/10

	SUN	MON	TUE	WED	THU	FRI	SAT
Stored Water Level FSL 207.12 m		207.07					
Tail Water Level m		206.24					
Daily Rainfall (mm) Morning 9am							
Evening 3pm							

	STAGE 1 Complete Table 1 (Pg 3 - Record of Gate Operation)	STAGE 2, 3, 4, 5 and 6 Complete Tables 1 & 2 (Pgs 3 & 4) and Visual Inspection section		
	Gauging Station	Beardmore	Cashmere	Weribone
	1 AM. Morning 9 am	~~207.07~~	3.61	12.61
	6 AM Evening 3 pm	207.03	3.58	12.56

Visual Inspection	First Inspection	Second Inspection (+6 hrs)	Third Inspection (+12 hrs)
Visual Inspection (Walk OR Drive at 10 km/hour. Write 'W' for walk and 'D' for Drive)	W&D.	W&D.	
Spillway Gate / Dissipator			
Erosion, damage to concrete, misalignment of gates	NIL	NIL	
Irrigation Control Structure			
Cracks, concrete deterioration	NIL	NIL	
Embankments			
Left Embankment: Cracks, subsidence in pavement	NIL	NIL	
Right Embankment: Cracks, subsidence in pavement	NIL	NIL	
Upstream Face: (Use binoculars)			
Settlement	NIL	NIL	
Displacement of riprap material	NIL	NIL	
Downstream face:			
Subsidence, slides, erosion	NIL	NIL	
Sign of seepage	NIL	NIL	
Area Downstream of Dam:			
Seepage from any location apart from seepage pt:	NIL	NIL	
Lower Gallery Access: (Inspect if it is safe to do so)			
Cracks, seepage increase			
Seepage: Seepage water Clear or Turbid (Tick for clear)			
Jack Taylor Weir By St. George Office	Gate Fully open	Gates ..... % open	
Erosion, damage to concrete			

Details of significant changes. New occurrences and matter warranting further attention .....

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Inspecting Officer's initials [redacted]

Fax to (tick if faxed)

Asset Engineering Manager / Service Delivery Manager [redacted]

Principal Engineer (Dam Safety) [redacted]

SunWater
Section 6A: Page 1 of 5
Jan 08, Issue 2-1

EJ BEARDMORE DAM EAP — Flood Operation

Visual Inspection and Storage Report
Note: Refer to Page 2 for recording instructions **

Date: 11/11/10

	SUN	MON	TUE	WED	THU	FRI	SAT
Stored Water Level FSL **207.12** m		207.05					
Tail Water Level m		206.03					
Daily Rainfall (mm) Morning 9am							
Evening 3pm							

	STAGE 1 Complete Table 1 (Pg 3 - Record of Gate Operation)	STAGE 2, 3, 4, 5 and 6 Complete Tables 1 & 2 (Pgs 3 & 4) and Visual Inspection section		
	Gauging Station	**Beardmore**	**Cashmere**	**Weribone**
	MIDNIGHT ~~Morning 9 am~~	207.05	3.56	12.39
	6 am Evening 3 pm	207.04	3.52	12.33

Visual Inspection	First Inspection	Second Inspection (+6 hrs)	Third Inspection (+12 hrs)
Visual Inspection (Walk OR Drive at 10 km/hour. Write 'W' for walk and 'D' for Drive)	D + W	D + W	
Spillway Gate / Dissipator			
Erosion, damage to concrete, misalignment of gates	NIL	NIL	
Irrigation Control Structure			
Cracks, concrete deterioration	NIL	NIL	
Embankments			
Left Embankment: Cracks, subsidence in pavement	NIL	NIL	
Right Embankment: Cracks, subsidence in pavement	NIL	NIL	
Upstream Face: (Use binoculars)			
Settlement	NIL	NIL	
Displacement of riprap material	NIL		
Downstream face:			
Subsidence, slides, erosion	NIL	NIL	
Sign of seepage	NIL	NIL	
Area Downstream of Dam:			
Seepage from any location apart from seepage pt:	NIL	NIL	
Lower Gallery Access: (Inspect if it is safe to do so)			
Cracks, seepage increase			
Seepage: Seepage water Clear or Turbid (Tick for clear)			
Jack Taylor Weir By St. George Office	Gate Fully open	Gates ..... % open	
Erosion, damage to concrete			

Details of significant changes. New occurrences and matter warranting further attention .....

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Inspecting Officer's initials [redacted]

Fax to (tick if faxed)

Asset Engineering Manager / Service Delivery Manage[redacted]

Principal Engineer (Dam Safety) [redacted]

SunWater
Section 6A: Page 1 of 5
Jan 08. Issue 2-1

EJ BEARDMORE DAM EAP — **Flood Operation**

Visual Inspection and Storage Report
Note: Refer to Page 2 for recording instructions **

Date: 12-1-11

	SUN	MON	TUE	WED	THU	FRI	SAT
Stored Water Level FSL **207.12** m				207.04			
Tail Water Level m				205.6			
Daily Rainfall (mm) Morning 9am							
Evening 3pm				9.0mm			

	STAGE 1 Complete Table 1 (Pg 3 - Record of Gate Operation)	STAGE 2, 3, 4, 5 and 6 Complete Tables 1 & 2 (Pgs 3 & 4) and Visual Inspection section		
	Gauging Station	**Beardmore**	**Cashmere**	**Weribone**
	Morning 9 am	207.06	3.20	12.04
	Evening 3 pm	207.03	3.14	11.97

Visual Inspection	First Inspection 12:00HRS	Second Inspection (+6 hrs)	Third Inspection (+12 hrs)
Visual Inspection (Walk OR Drive at 10 km/hour. Write 'W' for walk and 'D' for Drive)	W	W	W
Spillway Gate / Dissipator			
Erosion, damage to concrete, misalignment of gates	NIL	NIL	NIL
Irrigation Control Structure			
Cracks, concrete deterioration	NIL	NIL	NIL
Embankments			
Left Embankment: Cracks, subsidence in pavement	NIL	NIL	NIL
Right Embankment: Cracks, subsidence in pavement	NIL	NIL	NIL
Upstream Face: (Use binoculars)			
Settlement	NIL	NIL	NIL
Displacement of riprap material	NIL	NIL	NIL
Downstream face:			
Subsidence, slides, erosion	NIL	NIL	NIL
Sign of seepage	NIL	NIL	NIL
Area Downstream of Dam:			
Seepage from any location apart from seepage pt:	NIL	NIL	NIL
Lower Gallery Access: (Inspect if it is safe to do so)			
Cracks, seepage increase			
Seepage: Seepage water Clear or Turbid (Tick for clear)			
Jack Taylor Weir By St. George Office	Gate Fully open	Gates ..... % open	
Erosion, damage to concrete			

Details of significant changes. New occurrences and matter warranting further attention .....

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Inspecting Officer's initials [redacted]

Fax to (tick if faxed)
- Asset Engineering Manager / Service Delivery Manager [redacted]
- Principal Engineer (Dam Safety) [redacted]

SunWater
Section 6A: Page 1 of 5
Jan 08. Issue 2-1

EJ BEARDMORE DAM EAP — **Flood Operation**

Visual Inspection and Storage Report
Note: Refer to Page 2 for recording instructions **

Date: 13-1-11

	SUN	MON	TUE	WED	THU	FRI	SAT
Stored Water Level FSL 207.12 m					207.03		
Tail Water Level m					205.22		
Daily Rainfall (mm) Morning 9am					9.00		
Evening 3pm							

	STAGE 1 Complete Table 1 (Pg 3 - Record of Gate Operation)	STAGE 2, 3, 4, 5 and 6 Complete Tables 1 & 2 (Pgs 3 & 4) and Visual Inspection section		
	Gauging Station	Beardmore	Cashmere	Weribone
	06:00 am Morning 9 am	207.03	2.98	11.84
	Evening 3 pm	207.06	2.87	11.74

Visual Inspection	First Inspection 0600	Second Inspection (+6 hrs)	Third Inspection (+12 hrs)
Visual Inspection (Walk OR Drive at 10 km/hour. Write 'W' for walk and 'D' for Drive)		W	W
Spillway Gate / Dissipator			
Erosion, damage to concrete, misalignment of gates	NIL	NIL	NIL
Irrigation Control Structure			
Cracks, concrete deterioration	NIL	NIL	NIL
Embankments			
Left Embankment: Cracks, subsidence in pavement	NIL	NIL	NIL
Right Embankment: Cracks, subsidence in pavement	NIL	NIL	NIL
Upstream Face: (Use binoculars)			
Settlement	NIL	NIL	NIL
Displacement of riprap material	NIL	NIL	NIL
Downstream face:			
Subsidence, slides, erosion	NIL	NIL	NIL
Sign of seepage	NIL	NIL	NIL
Area Downstream of Dam:			
Seepage from any location apart from seepage pt:	NIL	NIL	NIL
Lower Gallery Access: (Inspect if it is safe to do so)			
Cracks, seepage increase			
Seepage: Seepage water Clear or Turbid (Tick for clear)			
Jack Taylor Weir By St. George Office	Gate Fully open	Gates ..... % open	
Erosion, damage to concrete			

Details of significant changes. New occurrences and matter warranting further attention 18:00 HRS Dam EL 207.06 BEARDMORE 205.22 WERIBONE 11.71 CASHMERE 2.84

[redacted]

Inspecting Officer's initials

Fax to (tick if faxed)

Asset Engineering Manager / Service Delivery Manager [redacted]

Principal Engineer (Dam Safety) [redacted]

EJ BEARDMORE DAM EAP **Flood Operation**

Visual Inspection and Storage Report
Note: Refer to Page 2 for recording instructions **

Date: 14-1-11

	SUN	MON	TUE	WED	THU	FRI	SAT
Stored Water Level FSL 207.12 m						207.04	
Tail Water Level m						204.70	
Daily Rainfall (mm) Morning 9am							
Evening 3pm							

	STAGE 1 Complete Table 1 (Pg 3 - Record of Gate Operation)	STAGE 2, 3, 4, 5 and 6 Complete Tables 1 & 2 (Pgs 3 & 4) and Visual Inspection section		
	Gauging Station	**Beardmore**	**Cashmere**	**Weribone**
	Morning 9 am	207.04	2.39	11.63
	Evening 3 pm	207.07	2.43	11.62

Visual Inspection	First Inspection	Second Inspection (+6 hrs)	Third Inspection (+12 hrs)
Visual Inspection (Walk OR Drive at 10 km/hour. Write 'W' for walk and 'D' for Drive)	W	W	W+D
Spillway Gate / Dissipator			
Erosion, damage to concrete, misalignment of gates	NIL	NIL	NIL
Irrigation Control Structure			
Cracks, concrete deterioration	NIL	NIL	NIL
Embankments			
Left Embankment: Cracks, subsidence in pavement	NIL	NIL	NIL
Right Embankment: Cracks, subsidence in pavement	NIL	NIL	NIL
Upstream Face: (Use binoculars)	NIL	NIL	NIL
Settlement	NIL	NIL	NIL
Displacement of riprap material	NIL	NIL	NIL
Downstream face:			
Subsidence, slides, erosion	NIL	NIL	NIL
Sign of seepage	NIL	NIL	NIL
Area Downstream of Dam:			
Seepage from any location apart from seepage pt:	NIL	NIL	NIL
Lower Gallery Access: (Inspect if it is safe to do so)			
Cracks, seepage increase			
Seepage: Seepage water Clear or Turbid (Tick for clear)			
Jack Taylor Weir **By St. George Office**	Gate Fully open	Gates 100 % open	
Erosion, damage to concrete			

Details of significant changes. New occurrences and matter warranting further attention 6 Pm Dam EL 207.04 T.W. 204.50

Inspecting Officer's initials [redacted]

Fax to (tick if faxed) ☐ Asset Engineering Manager / Service Delivery Manager [redacted]
☐ Principal Engineer (Dam Safety) [redacted]

SunWater
Section 6A: Page 1 of 5
Jan 08, Issue 2-1

EJ BEARDMORE DAM EAP — Flood Operation

Visual Inspection and Storage Report
Note: Refer to Page 2 for recording instructions **

Date: 15-1-11

	SUN	MON	TUE	WED	THU	FRI	SAT
Stored Water Level FSL 207.12 m							207.07
Tail Water Level m							204.35
Daily Rainfall (mm) Morning 9am							
Evening 3pm							

	STAGE 1 Complete Table 1 (Pg 3 - Record of Gate Operation)		STAGE 2, 3, 4, 5 and 6 Complete Tables 1 & 2 (Pgs 3 & 4) and Visual Inspection section		
	Gauging Station		Beardmore	Cashmere	Weribone
	12:00 AM	Morning ~~9~~ am	207.07	2.86	11.61
	06:00 AM	~~Evening 3 pm~~	207.06	2.75	11.64

Visual Inspection		First Inspection	Second Inspection (+6 hrs)	Third Inspection (+12 hrs)
Visual Inspection (Walk OR Drive at 10 km/hour. Write 'W' for walk and 'D' for Drive)				
Spillway Gate / Dissipator				
	Erosion, damage to concrete, misalignment of gates	NIL	NIL	NIL
Irrigation Control Structure				
	Cracks, concrete deterioration	NIL	NIL	NIL
Embankments				
Left Embankment:	Cracks, subsidence in pavement	NIL	NIL	NIL
Right Embankment:	Cracks, subsidence in pavement	NIL	NIL	NIL
Upstream Face:	(Use binoculars)			
	Settlement	NIL	NIL	NIL
	Displacement of riprap material	NIL	NIL	NIL
Downstream face:				
	Subsidence, slides, erosion	NIL	NIL	NIL
	Sign of seepage	NIL	NIL	NIL
Area Downstream of Dam:				
	Seepage from any location apart from seepage pt:	NIL	NIL	NIL
Lower Gallery Access: (Inspect if it is safe to do so)				
	Cracks, seepage increase			
Seepage:	Seepage water Clear or Turbid (Tick for clear)			
Jack Taylor Weir	**By St. George Office**	Gate Fully open	Gates ..... % open	
	Erosion, damage to concrete			

Details of significant changes. New occurrences and matter warranting further attention .....

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..... [redacted]

Inspecting Officer's initials [redacted]

Fax to (tick if faxed)

Asset Engineering Manager / Service Delivery Manager [redacted]

Principal Engineer (Dam Safety [redacted]

SunWater
Section 6A: Page 1 of 5
Jan 08, Issue 2-1

EJ BEARDMORE DAM EAP — **Flood Operation**

Visual Inspection and Storage Report
Note: Refer to Page 2 for recording instructions **

Date: 15-1-11

	SUN	MON	TUE	WED	THU	FRI	SAT
Stored Water Level FSL **207.12** m	207,05						207.01
Tail Water Level m	203,75						204.05
Daily Rainfall (mm) Morning 9am							
Evening 3pm							

	STAGE 1 Complete Table 1 (Pg 3 - Record of Gate Operation)	STAGE 2, 3, 4, 5 and 6 Complete Tables 1 & 2 (Pgs 3 & 4) and Visual Inspection section		
	Gauging Station	**Beardmore**	**Cashmere**	**Weribone**
	12:00 Morning 9 am	207.05	2.57	11.75
	06:00 AM Evening 3 pm	207.05	2.52	11.89

Visual Inspection	First Inspection	Second Inspection (+6 hrs)	Third Inspection (+12 hrs)
Visual Inspection (Walk OR Drive at 10 km/hour. Write 'W' for walk and 'D' for Drive)		W	W
Spillway Gate / Dissipator			
Erosion, damage to concrete, misalignment of gates	NIL	NIL	NIL
Irrigation Control Structure			
Cracks, concrete deterioration	NIL	NIL	NIL
Embankments			
Left Embankment: Cracks, subsidence in pavement	NIL	NIL	NIL
Right Embankment: Cracks, subsidence in pavement	NIL	NIL	NIL
Upstream Face: (Use binoculars)			
Settlement	NIL	NIL	NIL
Displacement of riprap material	NIL	NIL	NIL
Downstream face:			
Subsidence, slides, erosion	NIL	NIL	NIL
Sign of seepage	NIL	NIL	NIL
Area Downstream of Dam:			
Seepage from any location apart from seepage pt:	NIL	NIL	NIL
Lower Gallery Access: (Inspect if it is safe to do so)			
Cracks, seepage increase			
Seepage: Seepage water Clear or Turbid (Tick for clear)			
Jack Taylor Weir **By St. George Office**	Gate Fully open	Gates ..... % open	
Erosion, damage to concrete			

Details of significant changes. New occurrences and matter warranting further attention .....

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Inspecting Officer's initials [redacted]

Fax to (tick if faxed) | Asset Engineering Manager / Service Delivery Manager [redacted] | Principal Engineer (Dam Safety [redacted]

SunWater
Section 6A: Page 1 of 5
Jan 08, Issue 2-1

EJ BEARDMORE DAM EAP — Flood Operation

Visual Inspection and Storage Report
Note: Refer to Page 2 for recording instructions **

Date: 16-1-11

	SUN	MON	TUE	WED	THU	FRI	SAT
Stored Water Level FSL 207.12 m	207.04						
Tail Water Level m	203.28						
Daily Rainfall (mm) Morning 9am							
Evening 3pm							

	STAGE 1 Complete Table 1 (Pg 3 - Record of Gate Operation)	STAGE 2, 3, 4, 5 and 6 Complete Tables 1 & 2 (Pgs 3 & 4) and Visual Inspection section		
	Gauging Station	Beardmore	Cashmere	Weribone
	Morning 9 am	207.04	2.44	12.25
	Evening 3 pm			

Visual Inspection	First Inspection	Second Inspection (+6 hrs)	Third Inspection (+12 hrs)
Visual Inspection (Walk OR Drive at 10 km/hour. Write 'W' for walk and 'D' for Drive)	W & D		
Spillway Gate / Dissipator Erosion, damage to concrete, misalignment of gates	NIL		
Irrigation Control Structure Cracks, concrete deterioration	NIL		
Embankments			
Left Embankment: Cracks, subsidence in pavement	NIL		
Right Embankment: Cracks, subsidence in pavement	NIL		
Upstream Face: (Use binoculars)			
Settlement	NIL		
Displacement of riprap material	NIL		
Downstream face:			
Subsidence, slides, erosion	NIL		
Sign of seepage	NIL		
Area Downstream of Dam:			
Seepage from any location apart from seepage pt:	NIL		
Lower Gallery Access: (Inspect if it is safe to do so)			
Cracks, seepage increase			
Seepage: Seepage water Clear or Turbid (Tick for clear)			
Jack Taylor Weir By St. George Office	Gate Fully open	Gates ..... % open	
Erosion, damage to concrete			

Details of significant changes. New occurrences and matter warranting further attention .....

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Inspecting Officer's initials [redacted]

Fax to (tick if faxed)

Asset Engineering Manager / Service Delivery Manager [redacted]

Principal Engineer (Dam Safety [redacted]

SunWater
Section 6A: Page 1 of 5
Jan 08, Issue 2-1

EJ BEARDMORE DAM EAP **Flood Operation**

Visual Inspection and Storage Report
Note: Refer to Page 2 for recording instructions **

Date: 16.....1.....11.....

	SUN	MON	TUE	WED	THU	FRI	SAT
Stored Water Level FSL 207.12 m	207.05						
Tail Water Level m	207.75						
Daily Rainfall (mm) Morning 9am							
Evening 3pm							

	STAGE 1 Complete Table 1 (Pg 3 - Record of Gate Operation)	STAGE 2, 3, 4, 5 and 6 Complete Tables 1 & 2 (Pgs 3 & 4) and Visual Inspection section		
	Gauging Station	Beardmore	Cashmere	Weribone
	Morning 9 am	207.05	2.57	11.75
	Evening 3 pm	207.05	2.52	11.89

Visual Inspection	First Inspection	Second Inspection (+6 hrs)	Third Inspection (+12 hrs)
Visual Inspection (Walk OR Drive at 10 km/hour. Write 'W' for walk and 'D' for Drive)	W	W	W
Spillway Gate / Dissipator			
Erosion, damage to concrete, misalignment of gates	NIL	NIL	NIL
Irrigation Control Structure			
Cracks, concrete deterioration	NIL	NIL	NIL
Embankments			
Left Embankment: Cracks, subsidence in pavement	NIL	NIL	NIL
Right Embankment: Cracks, subsidence in pavement	NIL	NIL	NIL
Upstream Face: (Use binoculars)			
Settlement	NIL	NIL	NIL
Displacement of riprap material	NIL	NIL	NIL
Downstream face:			
Subsidence, slides, erosion	NIL	NIL	NIL
Sign of seepage			
Area Downstream of Dam:			
Seepage from any location apart from seepage pt:	NIL	NIL	NIL
Lower Gallery Access: (Inspect if it is safe to do so)			
Cracks, seepage increase			
Seepage: Seepage water Clear or Turbid (Tick for clear)			
Jack Taylor Weir **By St. George Office**	Gate Fully open	Gates ..... % open	
Erosion, damage to concrete			

Details of significant changes. New occurrences and matter warranting further attention .....

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..... [redacted]

Inspecting Officer's initials [redacted]

Fax to (tick if faxed)		Asset Engineering Manager / Service Delivery Manager [redacted]
		Principal Engineer (Dam Safety) [redacted]

SunWater
Section 6A: Page 1 of 5
Jan 08. Issue 2-1

EJ BEARDMORE DAM EAP **Flood Operation**

Visual Inspection and Storage Report
Note: Refer to Page 2 for recording instructions **

Date: 18/1/11

	SUN	MON	TUE	WED	THU	FRI	SAT
Stored Water Level FSL 207.12 m			207.03				
Tail Water Level m			202.85				
Daily Rainfall (mm) Morning 9am							
Evening 3pm							

	STAGE 1 Complete Table 1 (Pg 3 - Record of Gate Operation)	STAGE 2, 3, 4, 5 and 6 Complete Tables 1 & 2 (Pgs 3 & 4) and Visual Inspection section		
	Gauging Station	Beardmore	Cashmere	Weribone
	Morning 9 am	207.06	2.33	12.97
	Evening 3 pm	207.09	2.31	13.05

Visual Inspection	First Inspection 0600	Second Inspection (+6 hrs)	Third Inspection (+12 hrs)
Visual Inspection (Walk OR Drive at 10 km/hour. Write 'W' for walk and 'D' for Drive)	W	W	DRIV
Spillway Gate / Dissipator			
Erosion, damage to concrete, misalignment of gates	NIL	NIL	NIL
Irrigation Control Structure			
Cracks, concrete deterioration	NIL	NIL	NIL
Embankments			
Left Embankment: Cracks, subsidence in pavement	NIL	NIL	NIL
Right Embankment: Cracks, subsidence in pavement	NIL	NIL	NIL
Upstream Face: (Use binoculars)			
Settlement	NIL	NIL	NIL
Displacement of riprap material	NIL	NIL	NIL
Downstream face:			
Subsidence, slides, erosion	NIL	NIL	NIL
Sign of seepage	NIL	NIL	NIL
Area Downstream of Dam:			
Seepage from any location apart from seepage pt:	NIL	NIL	NIL
Lower Gallery Access: (Inspect if it is safe to do so)			
Cracks, seepage increase			
Seepage: Seepage water Clear or Turbid (Tick for clear)			
Jack Taylor Weir **By St. George Office**	Gate Fully open	Gates ..... % open	
Erosion, damage to concrete			

Details of significant changes. New occurrences and matter warranting further attention 6 Pm Dam RL 207.11
TW 202.89.

Inspecting Officer's initials [redacted]

Fax to (tick if faxed)
Asset Engineering Manager / Service Delivery Manager [redacted]
Principal Engineer (Dam Safety) [redacted]

SunWater
Section 6A: Page 1 of 5
Jan 08. Issue 2-1

EJ BEARDMORE DAM EAP — **Flood Operation**

Visual Inspection and Storage Report
Note: Refer to Page 2 for recording instructions **

Date: 19-1-11

	SUN	MON	TUE	WED	THU	FRI	SAT
Stored Water Level FSL **207.12** m				207.10			
Tail Water Level m				203.00			
Daily Rainfall (mm) Morning 9am							
Evening 3pm							

	STAGE 1 Complete Table 1 (Pg 3 - Record of Gate Operation)		STAGE 2, 3, 4, 5 and 6 Complete Tables 1 & 2 (Pgs 3 & 4) and Visual Inspection section		
	Gauging Station		**Beardmore**	**Cashmere**	**Weribone**
	12:00	Morning 9 am	207.10	2.30	13.11
	06:00 am	~~Evening 3 pm~~	207.13	2.31	13.12

Visual Inspection	First Inspection 12:15 pm	Second Inspection (+6 hrs)	Third Inspection (+12 hrs)
Visual Inspection (Walk OR Drive at 10 km/hour. Write 'W' for walk and 'D' for Drive)	W	W 06:00am	
Spillway Gate / Dissipator			
Erosion, damage to concrete, misalignment of gates	✓ Nil	✓ Nil	
Irrigation Control Structure			
Cracks, concrete deterioration	✓ Nil	✓ Nil	
Embankments			
Left Embankment: Cracks, subsidence in pavement	✓ Nil	✓ Nil	
Right Embankment: Cracks, subsidence in pavement	✓ Nil	✓ Nil	
Upstream Face: (Use binoculars)			
Settlement	✓ Nil	✓ Nil	
Displacement of riprap material	✓ Nil	✓ Nil	
Downstream face:			
Subsidence, slides, erosion	✓ Nil	✓ Nil	
Sign of seepage	✓ Nil	✓ Nil	
Area Downstream of Dam:			
Seepage from any location apart from seepage pt:	✓ Nil	✓ Nil	
Lower Gallery Access: (Inspect if it is safe to do so)			
Cracks, seepage increase			
Seepage: Seepage water Clear or Turbid (Tick for clear)			
Jack Taylor Weir **By St. George Office**	Gate Fully open	Gates ..... % open	
Erosion, damage to concrete			

Details of significant changes. New occurrences and matter warranting further attention .....

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Inspecting Officer's initials [redacted]

Fax to (tick if faxed)		
		Asset Engineering Manager / Service Delivery Manager [redacted]
		Principal Engineer (Dam Safety) [redacted]

SunWater
Section 6A: Page 1 of 5
Jan 08, Issue 2-1

EJ BEARDMORE DAM EAP — **Flood Operation**

Visual Inspection and Storage Report
Note: Refer to Page 2 for recording instructions **

Date: 19-7-11

	SUN	MON	TUE	WED	THU	FRI	SAT
Stored Water Level FSL **207.12** m				207.11			
Tail Water Level m				203.07			
Daily Rainfall (mm) Morning 9am							
Evening 3pm							

	STAGE 1 Complete Table 1 (Pg 3 - Record of Gate Operation)	STAGE 2, 3, 4, 5 and 6 Complete Tables 1 & 2 (Pgs 3 & 4) and Visual Inspection section		
	Gauging Station	**Beardmore**	**Cashmere**	**Weribone**
	Morning 9 am	207.11	2.3	1.3.18
	Evening 3 pm		2.3	1.3.15.

Visual Inspection	First Inspection	Second Inspection (+6 hrs)	Third Inspection (+12 hrs)
Visual Inspection (Walk OR Drive at 10 km/hour. Write 'W' for walk and 'D' for Drive)	W	W+D	W
Spillway Gate / Dissipator			
Erosion, damage to concrete, misalignment of gates	NIL	NIL	NIL
Irrigation Control Structure			
Cracks, concrete deterioration	NIL	NIL	NIL
Embankments			
Left Embankment: Cracks, subsidence in pavement	NIL	NIL	NIL
Right Embankment: Cracks, subsidence in pavement	NIL	NIL	NIL
Upstream Face: (Use binoculars)			
Settlement	NIL	NIL	NIL
Displacement of riprap material	NIL	NIL	NIL
Downstream face:			
Subsidence, slides, erosion	NIL	NIL	NIL
Sign of seepage	NIL	NIL	NIL
Area Downstream of Dam:			
Seepage from any location apart from seepage pt:	NIL	NIL	NIL
Lower Gallery Access: (Inspect if it is safe to do so)			
Cracks, seepage increase			
Seepage: Seepage water Clear or Turbid (Tick for clear)			
Jack Taylor Weir **By St. George Office**	Gate Fully open	Gates ..... % open	
Erosion, damage to concrete			

Details of significant changes. New occurrences and matter warranting further attention .....

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Inspecting Officer's initials [redacted]

Fax to (tick if faxed)		Asset Engineering Manager / Service Delivery Manager [redacted]
		Principal Engineer (Dam Safety) [redacted]

SunWater
Section 6A: Page 1 of 5
Jan 08, Issue 2-1

EJ BEARDMORE DAM EAP — Flood Operation

Visual Inspection and Storage Report
Note: Refer to Page 2 for recording instructions **

Date: 20-1-11

	SUN	MON	TUE	WED	THU	FRI	SAT
Stored Water Level FSL **207.12** m					207.11		
Tail Water Level m					203.75		
Daily Rainfall (mm) Morning 9am							
Evening 3pm							

	STAGE 1 Complete Table 1 (Pg 3 - Record of Gate Operation)	STAGE 2, 3, 4, 5 and 6 Complete Tables 1 & 2 (Pgs 3 & 4) and Visual Inspection section		
	Gauging Station	**Beardmore**	**Cashmere**	**Weribone**
	Morning 6 am	207.19 207.11	2.28 2.28	13.11 13.13
	Evening 3 pm	207.12	2.25	13.09

Visual Inspection	First Inspection 06:00AM	Second Inspection (+6 hrs)	Third Inspection (+12 hrs)
Visual Inspection (Walk OR Drive at 10 km/hour. Write 'W' for walk and 'D' for Drive)	W	W	WED.
Spillway Gate / Dissipator			
Erosion, damage to concrete, misalignment of gates	NIL	NIL	NIL
Irrigation Control Structure			
Cracks, concrete deterioration	NIL	NIL	NIL
Embankments			
Left Embankment: Cracks, subsidence in pavement	NIL	NIL	NIL
Right Embankment: Cracks, subsidence in pavement	NIL	NIL	NIL
Upstream Face: (Use binoculars)			
Settlement	NIL	NIL	NIL
Displacement of riprap material	NIL	NIL	NIL
Downstream face:			
Subsidence, slides, erosion	NIL	NIL	NIL
Sign of seepage	NIL	NIL	NIL
Area Downstream of Dam:			
Seepage from any location apart from seepage pt:	NIL	NIL	NIL
Lower Gallery Access: (Inspect if it is safe to do so)			
Cracks, seepage increase			
Seepage: Seepage water Clear or Turbid (Tick for clear)			
Jack Taylor Weir By St. George Office	Gate Fully open	Gates ..... % open	
Erosion, damage to concrete			

Details of significant changes. New occurrences and matter warranting further attention .....

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Inspecting Officer's initials [redacted]

Fax to (tick if faxed)		Asset Engineering Manager / Service Delivery Manager [redacted]
		Principal Engineer (Dam Safety) [redacted]

SunWater
Section 6A: Page 1 of 5
Jan 08, Issue 2-1

EJ BEARDMORE DAM EAP **Flood Operation**

Visual Inspection and Storage Report
Note: Refer to Page 2 for recording instructions **

Date: 21-1-11

	SUN	MON	TUE	WED	THU	FRI	SAT
Stored Water Level FSL 207.12 m						207.11	
Tail Water Level m						204.37	
Daily Rainfall (mm) Morning 9am							
Evening 3pm							

	STAGE 1 Complete Table 1 (Pg 3 - Record of Gate Operation)		STAGE 2, 3, 4, 5 and 6 Complete Tables 1 & 2 (Pgs 3 & 4) and Visual Inspection section		
	Gauging Station		Beardmore	Cashmere	Weribone
	12:15 Am	Morning 9 am	207.11	2.2.3	13.05
	06:00 am	~~Evening 3 pm~~	207.12	2.20	13.01

Visual Inspection		First Inspection	Second Inspection (+6 hrs)	Third Inspection (+12 hrs)
Visual Inspection (Walk OR Drive at 10 km/hour. Write 'W' for walk and 'D' for Drive)		W 12:15am	D 6:00am	
Spillway Gate / Dissipator				
	Erosion, damage to concrete, misalignment of gates	Nil	Nil	
Irrigation Control Structure				
	Cracks, concrete deterioration	Nil	Nil	
Embankments				
Left Embankment:	Cracks, subsidence in pavement	Nil	Nil	
Right Embankment:	Cracks, subsidence in pavement	Nil	Nil	
Upstream Face:	(Use binoculars)			
	Settlement	Nil	Nil	
	Displacement of riprap material	Nil	Nil	
Downstream face:				
	Subsidence, slides, erosion	Nil	Nil	
	Sign of seepage	Nil	Nil	
Area Downstream of Dam:				
	Seepage from any location apart from seepage pt:	Nil	Nil	
Lower Gallery Access: (Inspect if it is safe to do so)				
	Cracks, seepage increase			
Seepage: Seepage water	Clear or Turbid (Tick for clear)			
Jack Taylor Weir	**By St. George Office**	Gate Fully open	Gates ..... % open	
	Erosion, damage to concrete			

Details of significant changes. New occurrences and matter warranting further attention .....

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Inspecting Officer's initials [redacted]

Fax to (tick if faxed) ☐ Asset Engineering Manager / Service Delivery Manager [redacted]

☐ Principal Engineer (Dam Safety) [redacted]

SunWater
Section 6A: Page 1 of 5
Jan 08, Issue 2-1

EJ BEARDMORE DAM EAP **Flood Operation**

Visual Inspection and Storage Report
Note: Refer to Page 2 for recording instructions **

Date: 2.1.11

	SUN	MON	TUE	WED	THU	FRI	SAT
Stored Water Level FSL 207.12 m						207.11	
Tail Water Level m						209.37	
Daily Rainfall (mm) Morning 9am							
Evening 3pm							

	STAGE 1 Complete Table 1 (Pg 3 - Record of Gate Operation)	STAGE 2, 3, 4, 5 and 6 Complete Tables 1 & 2 (Pgs 3 & 4) and Visual Inspection section		
	Gauging Station	**Beardmore**	**Cashmere**	**Weribone**
	Morning 9 am	207.09	2.23	13.0
	Evening 3 pm	207.10	2.21	12.87

Visual Inspection	First Inspection 12.00	Second Inspection (+6 hrs)	Third Inspection (+12 hrs)
Visual Inspection (Walk OR Drive at 10 km/hour. Write 'W' for walk and 'D' for Drive)	W	D	W 12.00am
Spillway Gate / Dissipator			
Erosion, damage to concrete, misalignment of gates	NIL	NIL	NIL
Irrigation Control Structure			
Cracks, concrete deterioration	NIL	NIL	NIL
Embankments			
Left Embankment: Cracks, subsidence in pavement	NIL	NIL	NIL
Right Embankment: Cracks, subsidence in pavement	NIL	NIL	NIL
Upstream Face: (Use binoculars)			
Settlement	NIL	NIL	NIL
Displacement of riprap material	NIL	NIL	NIL
Downstream face:			
Subsidence, slides, erosion	NIL	NIL	NIL
Sign of seepage	NIL	NIL	NIL
Area Downstream of Dam:			
Seepage from any location apart from seepage pt:	NIL	NIL	NIL
Lower Gallery Access: (Inspect if it is safe to do so)			
Cracks, seepage increase			
Seepage: Seepage water Clear or Turbid (Tick for clear)			
Jack Taylor Weir **By St. George Office**	Gate Fully open	Gates ..... % open	
Erosion, damage to concrete			

Details of significant changes. New occurrences and matter warranting further attention .....

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Inspecting Officer's initials	[redacted]	[redacted]
Fax to (tick if faxed)		Asset Engineering Manager / Service Delivery Manager [redacted]
		Principal Engineer (Dam Safety) [redacted]

SunWater
Section 6A: Page 1 of 5
Jan 08, Issue 2-1

EJ BEARDMORE DAM EAP — **Flood Operation**

Visual Inspection and Storage Report
Note: Refer to Page 2 for recording instructions **

Date: 29-1-11

	SUN	MON	TUE	WED	THU	FRI	SAT
Stored Water Level FSL **207.12** m							207.09
Tail Water Level m							204.88
Daily Rainfall (mm) Morning 9am							
Evening 3pm							

	STAGE 1 Complete Table 1 (Pg 3 - Record of Gate Operation)	STAGE 2, 3, 4, 5 and 6 Complete Tables 1 & 2 (Pgs 3 & 4) and Visual Inspection section		
	Gauging Station	**Beardmore**	**Cashmere**	**Weribone**
	06:Am Morning 9 am	207.09	2.20	12.81
	Evening 3 pm	207.12	2.16	12.70

Visual Inspection	First Inspection 06:00AM	Second Inspection (+8 hrs)	Third Inspection (+12 hrs)
Visual Inspection (Walk OR Drive at 10 km/hour. Write 'W' for walk and 'D' for Drive)	W	W	W
Spillway Gate / Dissipator			
Erosion, damage to concrete, misalignment of gates	NIL	NIL	NIL
Irrigation Control Structure			
Cracks, concrete deterioration	NIL	NIL	NIL
Embankments			
Left Embankment: Cracks, subsidence in pavement	NIL	NIL	NIL
Right Embankment: Cracks, subsidence in pavement	NIL	NIL	NIL
Upstream Face: (Use binoculars)			
Settlement	NIL	NIL	NIL
Displacement of riprap material	NIL	NIL	NIL
Downstream face:			
Subsidence, slides, erosion	NIL	NIL	NIL
Sign of seepage	NIL	NIL	NIL
Area Downstream of Dam:			
Seepage from any location apart from seepage pt:	NIL	NIL	NIL
Lower Gallery Access: (Inspect if it is safe to do so)			
Cracks, seepage increase			
Seepage: Seepage water Clear or Turbid (Tick for clear)			
Jack Taylor Weir **By St. George Office**	Gate Fully open	Gates ..... % open	
Erosion, damage to concrete			

Details of significant changes. New occurrences and matter warranting further attention .....

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Inspecting Officer's initials [redacted]

Fax to (tick if faxed) — Asset Engineering Manager / Service Delivery Manager [redacted]
Principal Engineer (Dam Safety [redacted]

SunWater
Section 6A: Page 1 of 5
Jan 08, Issue 2-1

EJ BEARDMORE DAM EAP — Flood Operation

Visual Inspection and Storage Report
Note: Refer to Page 2 for recording instructions **

Date: 23-1-11

	SUN	MON	TUE	WED	THU	FRI	SAT
Stored Water Level FSL **207.12** m	207.14						
Tail Water Level m	205.00						
Daily Rainfall (mm) Morning 9am							
Evening 3pm							

	STAGE 1 Complete Table 1 (Pg 3 - Record of Gate Operation)	STAGE 2, 3, 4, 5 and 6 Complete Tables 1 & 2 (Pgs 3 & 4) and Visual Inspection section		
	Gauging Station	**Beardmore**	**Cashmere**	**Weribone**
	12:00 Morning 9 am	207.14	2.15	12.66
	06:00 am Evening 3 pm	207.14	2.14	12.62

Visual Inspection	First Inspection 12:15 AM	Second Inspection (+6 hrs)	Third Inspection (+12 hrs)
Visual Inspection (Walk OR Drive at 10 km/hour. Write 'W' for walk and 'D' for Drive)	W	W 6:00 AM	
Spillway Gate / Dissipator			
Erosion, damage to concrete, misalignment of gates	NIL	NIL	
Irrigation Control Structure			
Cracks, concrete deterioration	NIL	NIL	
Embankments			
Left Embankment: Cracks, subsidence in pavement	NIL	NIL	
Right Embankment: Cracks, subsidence in pavement	NIL	NIL	
Upstream Face: (Use binoculars)			
Settlement	NIL	NIL	
Displacement of riprap material	NIL	NIL	
Downstream face:			
Subsidence, slides, erosion	NIL	NIL	
Sign of seepage	NIL	NIL	
Area Downstream of Dam:			
Seepage from any location apart from seepage pt:	NIL	NIL	
Lower Gallery Access: (Inspect if it is safe to do so)			
Cracks, seepage increase			
Seepage: Seepage water Clear or Turbid (Tick for clear)			
Jack Taylor Weir By St. George Office	Gate Fully open	Gates ..... % open	
Erosion, damage to concrete			

Details of significant changes. New occurrences and matter warranting further attention .....

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Inspecting Officer's initials [redacted]

Fax to (tick if faxed) — Asset Engineering Manager / Service Delivery Manager [redacted]; Principal Engineer (Dam Safety) [redacted]

SunWater
Section 6A: Page 1 of 5
Jan 08. Issue 2-1

EJ BEARDMORE DAM EAP — **Flood Operation**

Visual Inspection and Storage Report
Note: Refer to Page 2 for recording instructions **

Date: 23/1/11

	SUN	MON	TUE	WED	THU	FRI	SAT
Stored Water Level FSL **207.12** m	207.14						
Tail Water Level m	205.07						
Daily Rainfall (mm) Morning 9am							
Evening 3pm							

	STAGE 1 Complete Table 1 (Pg 3 - Record of Gate Operation)	STAGE 2, 3, 4, 5 and 6 Complete Tables 1 & 2 (Pgs 3 & 4) and Visual Inspection section		
	Gauging Station	**Beardmore**	**Cashmere**	**Weribone**
	Morning 9 am	207.14	2.13	12.58
	Evening 3 pm	207.15	2.10	12.44

Visual Inspection	First Inspection 12:00	Second Inspection (+6 hrs)	Third Inspection (+12 hrs)
Visual Inspection (Walk OR Drive at 10 km/hour. Write 'W' for walk and 'D' for Drive)	W	W	D
Spillway Gate / Dissipator			
Erosion, damage to concrete, misalignment of gates	NIL	NIL	NIL
Irrigation Control Structure			
Cracks, concrete deterioration	NIL	NIL	NIL
Embankments			
Left Embankment: Cracks, subsidence in pavement	NIL	NIL	NIL
Right Embankment: Cracks, subsidence in pavement	NIL	NIL	NIL
Upstream Face: (Use binoculars)			
Settlement	NIL	NIL	NIL
Displacement of riprap material	NIL	NIL	NIL
Downstream face:			
Subsidence, slides, erosion	NIL	NIL	NIL
Sign of seepage	NIL	NIL	NIL
Area Downstream of Dam:			
Seepage from any location apart from seepage pt:	NIL	NIL	NIL
Lower Gallery Access: (Inspect if it is safe to do so)			
Cracks, seepage increase			
Seepage: Seepage water Clear or Turbid (Tick for clear)			
Jack Taylor Weir By St. George Office	Gate Fully open	Gates ..... % open	
Erosion, damage to concrete			

Details of significant changes. New occurrences and matter warranting further attention .....

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Inspecting Officer's initials [redacted]

Fax to (tick if faxed) ☐ Asset Engineering Manager / Service Delivery Manager [redacted]

☐ Principal Engineer (Dam Safety) [redacted]

SunWater
Section 6A: Page 1 of 5
Jan 08, Issue 2-1

Same Information as for (Earthquake

EJ BEARDMORE DAM EAP — Flood Operation

Visual Inspection and Storage Report
Note: Refer to Page 2 for recording instructions **

Date: 24.01.11

	SUN	MON	TUE	WED	THU	FRI	SAT
Stored Water Level FSL 207.12 m		207.02					
Tail Water Level m		205.03					
Daily Rainfall (mm) Morning 9am							
Evening 3pm							

	STAGE 1 Complete Table 1 (Pg 3 - Record of Gate Operation)	STAGE 2, 3, 4, 5 and 6 Complete Tables 1 & 2 (Pgs 3 & 4) and Visual Inspection section		
	Gauging Station	Beardmore	Cashmere	Weribone
	Morning 9 am	207.02	2.08	12.34
	Evening 3 pm	207.07	2.07	12.27

Visual Inspection	First Inspection 2:00	Second Inspection (+6 hrs)	Third Inspection (+12 hrs)
Visual Inspection (Walk OR Drive at 10 km/hour. Write 'W' for walk and 'D' for Drive)	W	D/W	D/W
Spillway Gate / Dissipator Erosion, damage to concrete, misalignment of gates	Nil	Nil	Nil
Irrigation Control Structure Cracks, concrete deterioration	Nil	Nil	Nil
Embankments Left Embankment: Cracks, subsidence in pavement	Nil	Nil	Nil
Right Embankment: Cracks, subsidence in pavement	Nil	Nil	Nil
Upstream Face: (Use binoculars) Settlement	Nil	Nil	Nil
Displacement of riprap material	Nil	Nil	Nil
Downstream face: Subsidence, slides, erosion	Nil	Nil	Nil
Sign of seepage	Nil	Nil	Nil
Area Downstream of Dam: Seepage from any location apart from seepage pt:	Nil	Nil	Nil
Lower Gallery Access: (Inspect if it is safe to do so) Cracks, seepage increase			
Seepage: Seepage water Clear or Turbid (Tick for clear)			
Jack Taylor Weir By St. George Office	Gate Fully open	Gates ..... % open	
Erosion, damage to concrete			

Details of significant changes. New occurrences and matter warranting further attention .....

[redacted]

Inspecting Officer's initials [redacted]

Fax to (tick if faxed)

Asset Engineering Manager / Service Delivery Manager [redacted]

Principal Engineer (Dam Safety) [redacted]

SunWater
Section 6A: Page 1 of 5
Jan 08, Issue 2-1

EJ BEARDMORE DAM EAP **Flood Operation**

Visual Inspection and Storage Report
Note: Refer to Page 2 for recording instructions **

Date: 25-1-11

	SUN	MON	TUE	WED	THU	FRI	SAT
Stored Water Level FSL **207.12** m			207.02				
Tail Water Level m			204.88				
Daily Rainfall (mm) Morning 9am							
Evening 3pm							

	STAGE 1 Complete Table 1 (Pg 3 - Record of Gate Operation)	STAGE 2, 3, 4, 5 and 6 Complete Tables 1 & 2 (Pgs 3 & 4) and Visual Inspection section		
	Gauging Station	**Beardmore**	**Cashmere**	**Weribone**
	Morning 9 am	207.02	2.04	12.06
	Evening 3 pm	207.10	2.08	12.0

Visual Inspection	First Inspection 12.00	Second Inspection (+6 hrs)	Third Inspection (+12 hrs)
Visual Inspection (Walk OR Drive at 10 km/hour. Write 'W' for walk and 'D' for Drive)	W/D	W+D	W
Spillway Gate / Dissipator			
Erosion, damage to concrete, misalignment of gates	NIL	NIL	NIL
Irrigation Control Structure			
Cracks, concrete deterioration	NIL	NIL	NIL
Embankments			
Left Embankment: Cracks, subsidence in pavement	NIL	NIL	NIL
Right Embankment: Cracks, subsidence in pavement	NIL	NIL	
Upstream Face: (Use binoculars)			
Settlement	NIL	NIL	NIL
Displacement of riprap material	NIL	NIL	NIL
Downstream face:			
Subsidence, slides, erosion	NIL	NIL	NIL
Sign of seepage	NIL	NIL	NIL
Area Downstream of Dam:			
Seepage from any location apart from seepage pt:	NIL	NIL	NIL
Lower Gallery Access: (Inspect if it is safe to do so)			
Cracks, seepage increase			
Seepage: Seepage water Clear or Turbid (Tick for clear)			
Jack Taylor Weir **By St. George Office**	Gate Fully open	Gates ..... % open	
Erosion, damage to concrete			

Details of significant changes. New occurrences and matter warranting further attention .....

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Inspecting Officer's initials [redacted]

Fax to (tick if faxed) ☐ Asset Engineering Manager / Service Delivery Manager [redacted]

☐ Principal Engineer (Dam Safety) [redacted]

SunWater
Section 6A: Page 1 of 5
Jan 08, Issue 2-1

EJ BEARDMORE DAM EAP — **Flood Operation**

Visual Inspection and Storage Report
Note: Refer to Page 2 for recording instructions **

Date: 26-1-11

	SUN	MON	TUE	WED	THU	FRI	SAT
Stored Water Level FSL 207.12 m				207.09			
Tail Water Level m				204.62			
Daily Rainfall (mm) Morning 9am							
Evening 3pm							

	STAGE 1 Complete Table 1 (Pg 3 - Record of Gate Operation)	STAGE 2, 3, 4, 5 and 6 Complete Tables 1 & 2 (Pgs 3 & 4) and Visual Inspection section		
	Gauging Station	Beardmore	Cashmere	Weribone
	06:00am Morning 9 am	207.09	2.11	11.83
	Evening 3 pm	207.08	2.16	11.70

Visual Inspection	First Inspection	Second Inspection (+6 hrs)	Third Inspection (+12 hrs)
Visual Inspection (Walk OR Drive at 10 km/hour. Write 'W' for walk and 'D' for Drive)	W	W+D	W
Spillway Gate / Dissipator			
Erosion, damage to concrete, misalignment of gates	NIL	NIL	NIL
Irrigation Control Structure			
Cracks, concrete deterioration	NIL	NIL	NIL
Embankments			
Left Embankment: Cracks, subsidence in pavement	NIL	NIL	NIL
Right Embankment: Cracks, subsidence in pavement	NIL	NIL	NIL
Upstream Face: (Use binoculars)			
Settlement	NIL	NIL	NIL
Displacement of riprap material	NIL	NIL	NIL
Downstream face:			
Subsidence, slides, erosion	NIL	NIL	NIL
Sign of seepage	NIL	NIL	NIL
Area Downstream of Dam:			
Seepage from any location apart from seepage pt:	NIL	NIL	NIL
Lower Gallery Access: (Inspect if it is safe to do so)			
Cracks, seepage increase			
Seepage: Seepage water Clear or Turbid (Tick for clear)			
Jack Taylor Weir By St. George Office	Gate Fully open	Gates ..... % open	
Erosion, damage to concrete			

Details of significant changes. New occurrences and matter warranting further attention .....

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Inspecting Officer's initials [redacted]

Fax to (tick if faxed)

Asset Engineering Manager / Service Delivery Manager [redacted]

Principal Engineer (Dam Safety [redacted]

SunWater
Section 6A: Page 1 of 5
Jan 08, Issue 2-1

EJ BEARDMORE DAM EAP — **Flood Operation**

Visual Inspection and Storage Report
Note: Refer to Page 2 for recording instructions **

Date: 27-1-11

	SUN	MON	TUE	WED	THU	FRI	SAT
Stored Water Level FSL 207.12 m					207.09		
Tail Water Level m					204.26		
Daily Rainfall (mm) Morning 9am					–		
Evening 3pm							

	STAGE 1 Complete Table 1 (Pg 3 - Record of Gate Operation)	STAGE 2, 3, 4, 5 and 6 Complete Tables 1 & 2 (Pgs 3 & 4) and Visual Inspection section		
	Gauging Station	Beardmore	Cashmere	Weribone
	6.00 AM Morning 9 am	207.09	2.26	11.45
	Evening 3 pm	207.06	2.44	11.36

Visual Inspection	First Inspection	Second Inspection (+6 hrs)	Third Inspection (+12 hrs)
Visual Inspection (Walk OR Drive at 10 km/hour. Write 'W' for walk and 'D' for Drive)	W	W	W+D
Spillway Gate / Dissipator			
Erosion, damage to concrete, misalignment of gates	NIL	NIL	NIL
Irrigation Control Structure			
Cracks, concrete deterioration	NIL	NIL	NIL
Embankments			
Left Embankment: Cracks, subsidence in pavement	NIL	NIL	NIL
Right Embankment: Cracks, subsidence in pavement	NIL	NIL	NIL
Upstream Face: (Use binoculars)			
Settlement	NIL	NIL	NIL
Displacement of riprap material	NIL	NIL	NIL
Downstream face:			
Subsidence, slides, erosion	NIL	NIL	NIL
Sign of seepage	NIL	NIL	NIL
Area Downstream of Dam:			
Seepage from any location apart from seepage pt:	NIL	NIL	NIL
Lower Gallery Access: (Inspect if it is safe to do so)			
Cracks, seepage increase			
Seepage: Seepage water Clear or Turbid (Tick for clear)			
Jack Taylor Weir By St. George Office	Gate Fully open	Gates ..... % open	
Erosion, damage to concrete			

Details of significant changes. New occurrences and matter warranting further attention .....

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Inspecting Officer's initials [redacted]

Fax to (tick if faxed) ☐ Asset Engineering Manager / Service Delivery Manager [redacted]
☐ Principal Engineer (Dam Safety) [redacted]

SunWater
Section 6A: Page 1 of 5
Jan 08. Issue 2-1

EJ BEARDMORE DAM EAP — **Flood Operation**

Visual Inspection and Storage Report
Note: Refer to Page 2 for recording instructions **

Date: 28-1-11

	SUN	MON	TUE	WED	THU	FRI	SAT
Stored Water Level FSL 207.12 m						207.05	
Tail Water Level m						203.95	
Daily Rainfall (mm) Morning 9am							
Evening 3pm							

	STAGE 1 Complete Table 1 (Pg 3 - Record of Gate Operation)	STAGE 2, 3, 4, 5 and 6 Complete Tables 1 & 2 (Pgs 3 & 4) and Visual Inspection section		
	Gauging Station	Beardmore	Cashmere	Weribone
	12:00 Morning ~~9~~ am	20705	2.10	11.22
	06:00 Am ~~Evening 3~~ pm	20705	2.12	11.11

Visual Inspection	First Inspection 12.00	Second Inspection (+6 hrs)	Third Inspection (+12 hrs)
Visual Inspection (Walk OR Drive at 10 km/hour. Write 'W' for walk and 'D' for Drive)	W	W 6:00pm	
Spillway Gate / Dissipator			
Erosion, damage to concrete, misalignment of gates	NIL	NIL	
Irrigation Control Structure			
Cracks, concrete deterioration	NIL	NIL	
Embankments			
Left Embankment: Cracks, subsidence in pavement	NIL	NIL	
Right Embankment: Cracks, subsidence in pavement	NIL	NIL	
Upstream Face: (Use binoculars)			
Settlement	NIL	NIL	
Displacement of riprap material	NIL	NIL	
Downstream face:			
Subsidence, slides, erosion	NIL	NIL	
Sign of seepage	NIL	NIL	
Area Downstream of Dam:			
Seepage from any location apart from seepage pt:	NIL	NIL	
Lower Gallery Access: (Inspect if it is safe to do so)			
Cracks, seepage increase			
Seepage: Seepage water Clear or Turbid (Tick for clear)			
Jack Taylor Weir By St. George Office	Gate Fully open	Gates ..... % open	
Erosion, damage to concrete			

Details of significant changes. New occurrences and matter warranting further attention .....

Inspecting Officer's initials [redacted]

Fax to (tick if faxed) — Asset Engineering Manager / Service Delivery Manager [redacted] — Principal Engineer (Dam Safety) [redacted]

SunWater
Section 6A: Page 1 of 5
Jan 08. Issue 2-1

EJ BEARDMORE DAM EAP — **Flood Operation**

Visual Inspection and Storage Report
Note: Refer to Page 2 for recording instructions **

Date: 28-1-11

	SUN	MON	TUE	WED	THU	FRI	SAT
Stored Water Level FSL 207.12 m						207.05	
Tail Water Level m						203.62	
Daily Rainfall (mm) Morning 9am							
Evening 3pm							

	STAGE 1 Complete Table 1 (Pg 3 - Record of Gate Operation)	STAGE 2, 3, 4, 5 and 6 Complete Tables 1 & 2 (Pgs 3 & 4) and Visual Inspection section		
	Gauging Station	Beardmore	Cashmere	Weribone
	Morning 9 am	207.05		11.09
	Evening 3 pm	207.03	217	10.96

Visual Inspection	First Inspection	Second Inspection (+6 hrs)	Third Inspection (+12 hrs)
Visual Inspection (Walk OR Drive at 10 km/hour. Write 'W' for walk and 'D' for Drive)	W	D	W+D
Spillway Gate / Dissipator			
Erosion, damage to concrete, misalignment of gates	NIL	NIL	NIL
Irrigation Control Structure			
Cracks, concrete deterioration	NIL	NIL	NIL
Embankments			
Left Embankment: Cracks, subsidence in pavement	NIL	NIL	NIL
Right Embankment: Cracks, subsidence in pavement	NIL	NIL	NIL
Upstream Face: (Use binoculars)	NIL	NIL	
Settlement	NIL	NIL	NIL
Displacement of riprap material	NIL	NIL	NIL
Downstream face:			
Subsidence, slides, erosion	NIL	NIL	NIL
Sign of seepage	NIL	NIL	NIL
Area Downstream of Dam:			
Seepage from any location apart from seepage pt:	NIL	NIL	NIL
Lower Gallery Access: (Inspect if it is safe to do so)			
Cracks, seepage increase			
Seepage: Seepage water Clear or Turbid (Tick for clear)			
Jack Taylor Weir By St. George Office	Gate Fully open	Gates ..... % open	
Erosion, damage to concrete			

Details of significant changes. New occurrences and matter warranting further attention .....

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Inspecting Officer's initials [redacted]

Fax to (tick if faxed) — Asset Engineering Manager / Service Delivery Manager [redacted]; Principal Engineer (Dam Safety) [redacted]

SunWater
Section 6A: Page 1 of 5
Jan 08. Issue 2-1

EJ BEARDMORE DAM EAP — **Flood Operation**

Visual Inspection and Storage Report
Note: Refer to Page 2 for recording instructions **

Date: 29.1.11

	SUN	MON	TUE	WED	THU	FRI	SAT
Stored Water Level FSL 207.12 m							207.06
Tail Water Level m							203.22
Daily Rainfall (mm) Morning 9am							–
Evening 3pm							

	STAGE 1 Complete Table 1 (Pg 3 - Record of Gate Operation)	STAGE 2, 3, 4, 5 and 6 Complete Tables 1 & 2 (Pgs 3 & 4) and Visual Inspection section		
	Gauging Station	Beardmore	Cashmere	Weribone
	12:15 AM Morning 9 am	207.06	2.18	10.82
	06.00 AM Evening 3 pm	207.09	2.16	10.68

Visual Inspection	First Inspection 12:00 AM	Second Inspection (+6 hrs)	Third Inspection (+12 hrs)
Visual Inspection (Walk OR Drive at 10 km/hour. Write 'W' for walk and 'D' for Drive)	W	W 06:00 AM	W
Spillway Gate / Dissipator			
Erosion, damage to concrete, misalignment of gates	NIL	NIL	NIL
Irrigation Control Structure			
Cracks, concrete deterioration	NIL	NIL	NIL
Embankments			
Left Embankment: Cracks, subsidence in pavement	NIL	NIL	NIL
Right Embankment: Cracks, subsidence in pavement	NIL	NIL	NIL
Upstream Face: (Use binoculars)			
Settlement	NIL	NIL	NIL
Displacement of riprap material	NIL	NIL	NIL
Downstream face:			
Subsidence, slides, erosion	NIL	NIL	NIL
Sign of seepage	NIL	NIL	NIL
Area Downstream of Dam:			
Seepage from any location apart from seepage pt:	NIL	NIL	NIL
Lower Gallery Access: (Inspect if it is safe to do so)			
Cracks, seepage increase			
Seepage: Seepage water Clear or Turbid (Tick for clear)			
Jack Taylor Weir By St. George Office	Gate Fully open	Gates ..... % open	
Erosion, damage to concrete			

Details of significant changes. New occurrences and matter warranting further attention .....

Inspecting Officer's initials [redacted]

Fax to (tick if faxed) ☐ Asset Engineering Manager / Service Delivery Manager [redacted]
Principal Engineer (Dam Safety) [redacted]

SunWater
Section 6A: Page 1 of 5
Jan 08. Issue 2-1

EJ BEARDMORE DAM EAP — **Flood Operation**

Visual Inspection and Storage Report
Note: Refer to Page 2 for recording instructions **

Date: 29.1.11

	SUN	MON	TUE	WED	THU	FRI	SAT
Stored Water Level FSL 207.12 m							207.06
Tail Water Level m							203.22
Daily Rainfall (mm) Morning 9am							–
Evening 3pm							

	STAGE 1 Complete Table 1 (Pg 3 - Record of Gate Operation)	STAGE 2, 3, 4, 5 and 6 Complete Tables 1 & 2 (Pgs 3 & 4) and Visual Inspection section		
	Gauging Station	Beardmore	Cashmere	Weribone
	12:15 AM Morning 9 am	207.06	2.18	10.82
	06.00 AM Evening 3 pm	207.09	2.16	10.68

Visual Inspection	First Inspection 12:00 AM	Second Inspection (+6 hrs)	Third Inspection (+12 hrs)
Visual Inspection (Walk OR Drive at 10 km/hour. Write 'W' for walk and 'D' for Drive)	W	W 06:00 AM	W
Spillway Gate / Dissipator			
Erosion, damage to concrete, misalignment of gates	NIL	NIL	NIL
Irrigation Control Structure			
Cracks, concrete deterioration	NIL	NIL	NIL
Embankments			
Left Embankment: Cracks, subsidence in pavement	NIL	NIL	NIL
Right Embankment: Cracks, subsidence in pavement	NIL	NIL	NIL
Upstream Face: (Use binoculars)			
Settlement	NIL	NIL	NIL
Displacement of riprap material	NIL	NIL	NIL
Downstream face:			
Subsidence, slides, erosion	NIL	NIL	NIL
Sign of seepage	NIL	NIL	NIL
Area Downstream of Dam:			
Seepage from any location apart from seepage pt:	NIL	NIL	NIL
Lower Gallery Access: (Inspect if it is safe to do so)			
Cracks, seepage increase			
Seepage: Seepage water Clear or Turbid (Tick for clear)			
Jack Taylor Weir By St. George Office	Gate Fully open	Gates ..... % open	
Erosion, damage to concrete			

Details of significant changes. New occurrences and matter warranting further attention .....

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Inspecting Officer's initials [redacted]

Fax to (tick if faxed) ☐ Asset Engineering Manager / Service Delivery Manager [redacted]

Principal Engineer (Dam Safety) [redacted]

SunWater
Section 6A: Page 1 of 5
Jan 08. Issue 2-1

EJ BEARDMORE DAM EAP — **Flood Operation**

Visual Inspection and Storage Report
Note: Refer to Page 2 for recording instructions **

Date: 24-1-11

	SUN	MON	TUE	WED	THU	FRI	SAT
Stored Water Level FSL 207.12 m							207.08
Tail Water Level m							202.95
Daily Rainfall (mm) Morning 9am							
Evening 3pm							

	STAGE 1 Complete Table 1 (Pg 3 - Record of Gate Operation)	STAGE 2, 3, 4, 5 and 6 Complete Tables 1 & 2 (Pgs 3 & 4) and Visual Inspection section		
	Gauging Station	Beardmore	Cashmere	Weribone
	Morning 9 am	207.08	2.07	15.2
	Evening 3 pm			

Visual Inspection	First Inspection	Second Inspection (+6 hrs)	Third Inspection (+12 hrs)
Visual Inspection (Walk OR Drive at 10 km/hour. Write 'W' for walk and 'D' for Drive)	W + D	W	W
Spillway Gate / Dissipator			
Erosion, damage to concrete, misalignment of gates	NIL	NIL	NIL
Irrigation Control Structure			
Cracks, concrete deterioration	NIL	NIL	NIL
Embankments			
Left Embankment: Cracks, subsidence in pavement	NIL	NIL	NIL
Right Embankment: Cracks, subsidence in pavement	NIL	NIL	NIL
Upstream Face: (Use binoculars)			
Settlement	NIL	NIL	NIL
Displacement of riprap material	NIL	NIL	NIL
Downstream face:			
Subsidence, slides, erosion	NIL	NIL	NIL
Sign of seepage	NIL	NIL	NIL
Area Downstream of Dam:			
Seepage from any location apart from seepage pt:	NIL	NIL	NIL
Lower Gallery Access: (Inspect if it is safe to do so)			
Cracks, seepage increase			
Seepage: Seepage water Clear or Turbid (Tick for clear)			
Jack Taylor Weir By St. George Office	Gate Fully open	Gates ..... % open	
Erosion, damage to concrete			

Details of significant changes. New occurrences and matter warranting further attention .....

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Inspecting Officer's initials [redacted]

Fax to (tick if faxed)		Asset Engineering Manager / Service Delivery Manager [redacted]
		Principal Engineer (Dam Safety) [redacted]

SunWater
Section 6A: Page 1 of 5
Jan 08. Issue 2-1

Observation Bore Monitoring Data.

BORE OBSERVATION REPORT
BEARDMORE DAM

DATE	RESERVOIR EL	CHANNEL 200.400	BORE 1 204.418		BORE 2 204.436		BORE 3 208.234	
			Reading	WL	Reading	WL	Reading	WL
6/12/2010	207.13	201.25	3.100	201.318	2.800	201.636	4.900	203.334
7/12/2010	207.13	201.28	3.000	201.418	2.270	202.166	5.490	202.744
28/12/10	207.08	201.15	2.340		2.230		5.50	

BORE OBSERVATION REPORT
BEARDMORE DAM

	DATE 6:00am	RESERVOIR EL	CHANNEL 200.400	BORE 1 204.418		BORE 2 204.436		BORE 3 208.234	
				Reading	WL	Reading	WL	Reading	WL
	7-1-11	207.11	201.05	2320		2180		5315	
		207.10	201.68	2.16		2.13		5.29	
	7-1-11	207.10	202.74	2.14		2.10		5.27	
12.00	8-1-11	207.11	202.84	2055.		2035		5245	
06:00am		207.11	201.65	2075		2025		5215	
12:00.		207.09	201.65	2060		2.000.		5.176	
6pm	8-1-11	207.09	201.65	2050		2.000		5.160	
24.00	9-1-11	207.09	201.65	2050		2.010		5.160	
6		207-11	202.66	2046		1.995		5.150	
12.00	9-1-11	207.10	202.65	2.36		1.98		5.19	
6pm	9-1-11	207.08	202.71	2.15		1.985		5.115	
24.00	10-1-11	207.07	201.70	2.010		1.970		5.130.	
6.00	10-1-11	207.03	201.69	2.015		1.970		5.120.	
12:00		207.05	201.69	2.000		1.967		5.120	
6pm	10-1-11	207.06	201.68	1990		1940		5090	
MID	11.1.11	207.05	201.69	2050		1950		5110	
6am		207.04	201.69	2.000		1.995		5.110.	
12:00	11-1-11	207.03	201.69	2.000		1.950		5.115	
18:00	11-1-11	207.06	201.69	1.880		1.950		5.095	

7-1-11
EVAP 5.3
TEMP MAX 33
MIN 20

EVAP
6.2.
MAX
MIN

BORE OBSERVATION REPORT
BEARDMORE DAM

	DATE	RESERVOIR EL	CHANNEL 200.400	BORE 1 204.418		BORE 2 204.436		BORE 3 208.234	
				Reading	WL	Reading	WL	Reading	WL
12:00	12-1-11	207.06	201.40	2.04		1.95		5.16	
18:00	" "	207.06	201.39	2.080		1.95		5.07	
01:15	13-1-11	207.05	201.40	201.20		1.95		5.180	
06:00	13-1-11	207.03	201.40	2135		2015		5.195	
12:00	13-1-11	207.06	201.38	2.130		2.035		5.220	
18:00	13-1-11	207.06	201.38	2.130		2.020		5.200	
12:50	14-1-11	207.08	201.39	2160		2050		5240	
06:00	14-1-11	207.07	201.38	2155		2060		5255	
1200	14-1-11	207.07	201.38	2130		2035		5220	
1800	14-1-11	207.04	201.70	2090		2040		5230	
12:15	15-1-11	207.07	201.73	2050		2020		5250	
600	15-1-11	207.06	201.73	2035		2015		5250	

BORE OBSERVATION REPORT
BEARDMORE DAM

DATE	RESERVOIR EL	CHANNEL 200.400	BORE 1 204.418		BORE 2 204.436		BORE 3 208.234	
			Reading	WL	Reading	WL	Reading	WL
15/1/2011	207.00	201.8	2.030		2.010		5.255	
15-1-11	207.01	201.8	2035		1970		5225	
16-1-11	207.05	201.80	20.50		20.20		5240	
16-1-11	207.05	201.80	20.00		19.65		5245	
16-1-11	207.04	201.92	1980		20.20		5245	
16-1-11	207.04	202.03	1955		1910		5200	
~~17-1-11~~	~~207.06~~	202.02	20.10		20.00		~~5305~~	
17-1-11	207.03	202.07	1985		1980		5305	
17-1-11	207.06	202.00	2.005		2.01		5.3.	
17-1-11	207.06	202.13	1960		1935		5265	
18-1-11	207.05	202.11	1955		1955		5285	
18-1-11	207.07	202.10	1935		1935		5290	
18-1-11	207.11	202.44	1860		1830		5245	
AM 12.15 19-1-11	207.10	202.46	1845		1875		5240	
6 19-1-11	207.13	202.45	1815		1860		5250	
12. 19-1-11	207.11	202.42	1.81		1.85.		5.24	
19-1-11	207.13	202.28	1810		1825		5.20	
20-1-11	207.11	202.13	1876		1865		5225	
20-1-11	207.11	202.10	1890		1870		5230	

1300
1400
0600
18
2400
6Pm 1800
12:15 AM.
1800 6Pm.
12.15AM.
06:00AM.

BORE OBSERVATION REPORT
BEARDMORE DAM

DATE	RESERVOIR EL	CHANNEL 200.400	BORE 1 204.418		BORE 2 204.436		BORE 3 208.234		
			Reading	WL	Reading	WL	Reading	WL	
21.01.11	207.10	201.45	2.175		2.080		5.325		
21.01.11	207.10		2.175		2.080		5.325		
22-1-11	207.10	201.98	2.030		2.020		5.320		
22-1-11	207.09	201.98	2.010		2.012		5.306		
22-1-11	207.12	202.13	1.935		1.930		5.255		15660.6
22-1-11	207.12	202.15	1.940		1.945		5.255		23892.6
23-1-11	207.14	202.15	1.920		1.930		5.230		12:00AM
23-1-11	207.14	202.15	1.900		1.905		5.220		6:00 AM.
23.1.11	207.09	202.15	1.895		1.890		5.180		12:00 Pm
23-1-11	207.05		1.90		1.94		5.195		4pm.
24-1-11	207.04	201.85	1.986		1.935		5.200		12AM
24-1-11	207.02	201.85	1.995		1.945		5.200		6AM
24.1.11	207.07	201.90	1.960		1.930		5.13		12:00
24.1.11	207.06	201.95	1.940		1.943		5.207		5pm
25-1-11	207.04	202.10	1.915		1.910		5.205		
25-1-11	207.03	202.10	1.910		1.900		5.200		
25.1.11	207.04	202.13	1.900		1.865		5.165		12:00
25-1-11	207.09	202.13	1.800		1.815		5.115		1800
26-1-11	207.08	202.20	1.880		1.850		5.190		12:15AM.
26.1.11	207.09	202.20	1.860		1.870		5.190		6:00AM.

TAPE BROKEN SUBTRACT 65mm.

BORE OBSERVATION REPORT
BEARDMORE DAM

	DATE	RESERVOIR EL	CHANNEL 200.400	BORE 1 204.418		BORE 2 204.436		BORE 3 208.234		
				Reading	WL	Reading	WL	Reading	WL	
12:00	26.01.11	207.05	202.18	1.865		1.850		5.175		
1800	26-1-11	207.08	202.20	1.795		17.90		5.110		
	27-1-11	207.09	202.20	18.70		18.60		51.95		12:15
	27-1-11	207.09	202.20	18.50		18.60		5.195		6:00AM.
1200	27-1-11	207.06	202.20	1860		1870		5.195		
1800	27-1-11	207.08	202.23	1.795		17.60		5.085		
	28-1-11	207.05	202.20	17.95		17.95		5.135		12:15AM.
	28-1-11	207.04	202.20	17.75		17.85		5.135		
1200	28-1-11	207.08	202.20	1.850		1.860		5.205		
1800	28-1-11	207.06	202.20	1755		1.755		5.085		
	29-1-11	207.06	202.20	18.00		1.796		51.35		12:15AM.
	29-1-11	207.09	202.20	1.895		1.790		5.130		6:00AM.
1800	29-1-11	207.05	202.20	1790		1.785		5.135		1800
	30-1-11	207.06	202.20	1805		1795		5.165		12:00 MIDNITE
MIDDAY	30-1-11	207.10	202.20	1.860		1.860		5.230		
1800	30-1-11	207.10	201.84	1.840		1.800		5.140		1800
	31-1-11	207.10	201.80	1.920		1.980		5.250		
	31-1-11	207.07	201.80	1.900		1.945		5.270		
1200	31-1-11	207.11	202.07	1.978		1.906		5.286		

TAPE BROKEN - 65mm

BORE OBSERVATION REPORT
BEARDMORE DAM

	DATE	RESERVOIR EL	CHANNEL 200.400	BORE 1 204.418		BORE 2 204.436		BORE 3 208.234	
				Reading	WL	Reading	WL	Reading	WL
18:00	31-1-11	207.07	202.30	1860		1850		5180	
1200	1-2-11	207.08	202.10	1920		1925		5265	
0600	1-2-11	207.10	202.10	1900		1910		5260	
1200		207.06	202.58	1796		1655		5255	

Beardmore Dam Event Report

Emergency Event Recording Sheets

- **EAP Performance and Comments**

Emergency Action Plan.

Beardmore Dam's Emergency Action Plan in relation to the implementing of procedures as associated with designated roles and responsibilities as defined in all Sections of the EAP for the course of the Emergency Flood Event for the months of November and December 2010 through to .

EAP Section	Emergency Event Performance	Comments/Recommendations
Section 1. Table of Contents, Controlled Copy Distribution List and Document Control Sheet	Nil issues with this section during the event, EAP procedures adhered to for complete period of flood event.	**To be actioned:** Controlled Copy Distribution table on Page 2 requires updating inline with SunWater new structure hierarchy associated with the incorporation of SLF Initiatives Area Operations Manager – Toowoomba SunWater **New Business improvement** **To be actioned:** Addition of Ergon Energy contact number in Emergency Communication List, St George Office Ph[redacted] Conner Gould Mob:[redacted] Addition of a dedicated mobile phone with EEC contact number to be included in the Emergency Communication List
Section 2. Emergency Evaluation Procedures	Nil issues with this section during the event, EAP procedures adhered to for complete period of flood event Continuous monitoring was conducted of left and right embankments and wingwalls	Customer contact procedures initiated and completed at all stages of the event **New Business improvement** **To be actioned:** Relocation of Beardmore Dam office to new building site, incorporating a dedicated laptop computer with internet and Intranet capabilities for accessing BOM and Win gauging stations is to be available on site and for emergency event reporting purposes to Regional and Brisbane Centres
Section 3. Notification & Emergency	Nil issues with this section during the event.	**New Business improvement**

Communication List		**To be actioned:** Contact list requires updating more frequently, Customer Service group to advise St George staff of any new property sales and exchange of land ownership **To be actioned:** Compilation of **Contact list 6**. customer and landholders downstream of Jack Taylor Weir in Action Level 3 situations
Section 4. Introduction to EAP, Responsibilities & Dam Description	Regional based EEC's were appointed and stationed in Toowoomba Office, Telephone and Radio Notification List procedures were adhered to throughout emergency event	**To be actioned:** Section 4. Table 4.4 Emergency Event Coordinator, more than one EEC is to be appointed and trained in reporting procedures. **New Business improvement** **To be actioned:** Appointment of an Asset Engineer and relocation on-site for Emergency Action 3 level event of this type, especially with the identification of embankment cracks. **Actioned:** Emergency staffing, 3 x 8 hour shifts comprising of 3 staff personnel with 1 additional stand by person.
Section 5. Emergency Identification, Evaluation and Actions	All on ground staff were proficient in their allocated duties and required responsibilities	**To be actioned:** Update of Beardmore Dam Gate Opening Flow rating chart to well above the top release rate of 335,460 ml/day on the current sheet
Section 6. Emergency Event Operation Recording Procedures	Daily records and reporting as required were completed. Beardmore Dam log sheets were maintained for the duration of the event	**New Business improvement** **To be actioned:** EEC and Manager training to include compliance reporting as defined in this section, training should include examples of the requirements of this report
Section 7. Emergency Access Routes &	Main roads access was closed during this event, staff were required to seek	Access agreements to be sourced for alternative routes through private

Preventative Actions	an alternative route through private property and along Thuraggi Channel road to access Beardmore Dam and return to St George	property when main roads are flooded and impassabl., **Actioned:** Current agreement is that landholder will allow Sunwater staff access through the property only when Thuraggi Channel road is impassable
Section 8. Lowering Storage Level and Spillway gate Operations	Daily operations of Beardmore Dam during this flood event was highly efficient , staff were very competent and knowledgeable Gates 1 -12 operational raising and lowering procedures were completed smoothly with no issues or incidents reported	**Actioned:** Investigation and possible relocation of Generator Hut and backup generator is being further investigated. **To be actioned:** **8.2.2 (II)** Air Motors Air motors are not a viable operational option for rapid raising or lowering of gates as defined in Action levels 2 & 3 because of their slowness, their use in raising the gates in Action Level 1, 2, & 3 events could very well precipitate a serious Dam Safety incident . **New Business improvement** **To be actioned:** Purchase and provision of a 30 KVA mobile generator for Beardmore Dam back up power.
Section 9. Flood Impact Downstream, River Cross sections & Inundation Maps	Serious flooding occurred downstream of Beardmore Dam with road closures occurring along all major highways and main roads Carnarvon Highway between St George and Beardmore Dam/Surat Warrego Highway Moonie Highway between St George and Dalby Bollon Highway at Andrew Nixon Bridge Minimal land flooding occurred between Beardmore Dam and the township of St George Western end of St George was flooded with approximately 10 houses being	Nil comments

	inundated and flood damaged Jack Taylor Weir gates were raised allowing flood waters to pass through the township of St George Storm water drainage decisive action in closing of the stormwater system prevented any major flooding from occurring in the main population areas Balonne Shire Council constructed a flood levy bank along The Terrace to a height of 14.5 metres	
Section 10. Definitions and Analysis	Not applicable	Not applicable

The following is an Table extract taken from HB # 1027915, South Region January 2011 Flood Operations Lesson Learnt

Location	Issues Raised at Workshops	Service Manager Comments	Other Action
Beardmore Dam	Hourly information to be received at Dam in relation to expected inflows.	Computer to be set up for personnel to use WIN. Ask Hydrography to run hourly updates to WIN. =KQ	Investigate text messages from gauging stations
Beardmore Dam	New equipment required - new binoculars, camera with zoom capabilities, spotlight for reading gauges	New equipment to be purchased. Mr Lyons here in St George. Mr Lyons can shoot the new gauge boards =KQ	Check similar equipment at other dams
Beardmore Dam	Ability to download photos at dam and e-mail	Speak with ICT =KQ	
Beardmore Dam	More Gauge Boards at both Dam and Pump Station	Contact to be made with purchase and level of new Gauge Boards =KQ	
Beardmore Dam	Buoys to be placed in EAP to be moved if flow is expected to exceed 50,000ML.	AS to be informed of new protocol =KQ	
Beardmore Dam	Gauge boards at dam are adequate as when the gate is raised 5m the gate is out of water. Seems a waste to open gates further. A the discharge level of 250,000ML Gates 4,3,&2 are raised to 5.45m. However at this rate the gates are already above the water level and make no difference to the release.	AM to be notified. =KQ	
Beardmore Dam	New gate openings for lowering of gates as 8,000ML is a large jump.	AM to be notified =KQ	

Beardmore Dam	3 personnel per shift is required during big floods	Will note this for further events. Speak with Mission Australia in St George in relation to supplying personnel =KQ	
Beardmore Dam	Camp was a good idea. However if the flood reaches March 2010 heights office will have to be moved to camp of 2nd house.	Will depend on new back up generator hut =KQ	
Beardmore Dam	There is a big fault in the communication with Beardmore dam when they lose power, mobile phones are erratic (we have a satellite phone, so why don't we use it)	KQ investigating	

Beardmore Dam Event Report

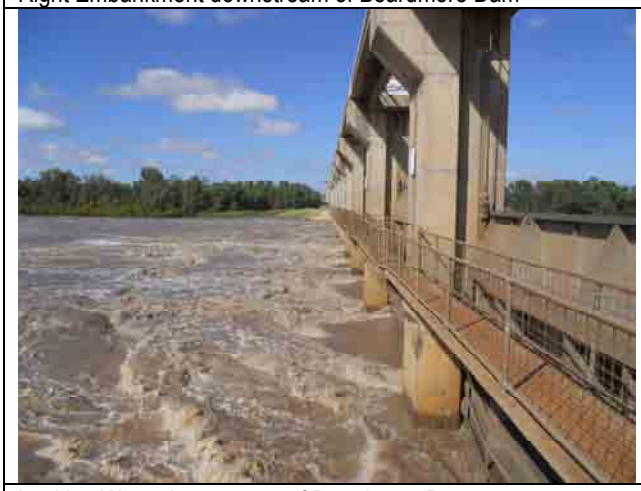
Emergency Event Recording Sheets

- **Photos during and after the event**

Photos during and after the event

Right Embankment downstream of Beardmore Dam

Looking west upstream Beardmore Dam



Looking West, downstream of Beardmore Dam

Looking East, downstream of Beardmore Dam

Looking West, downstream of Beardmore Dam (Flow Peak)

Looking west upstream Beardmore Dam (Gantry Crane track)

Looking East, downstream of Beardmore Dam (Flow Peak)	Looking downstream of Beardmore Dam

Damage to Temporary Pump Station, Rising Main and Delivery Channel.

Temporary pumping location and delivery channel is currently under water, no condition monitoring will be completed until water levels in Beardmore Dam subside.