

KROOMBIT DAM

EMERGENCY EVENT REPORT

20TH DEC 2010 to MARCH 2011



QFCI

Date: 27/05/11 Jm

Exhibit Number: 519

SunWater
179 Turbot St., Brisbane
PO Box 15536
City East QLD 4002

KROOMBIT DAM - EMERGENCY EVENT REPORT

Emergency Event Recording Sheets

- Description of the Event
- Instrument Readings and Level Data
- Description of Damage
- Photos during and after the Event
- Details of Communication
- General Comments and/or EAP recommendations

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

KROOMBIT DAM - EMERGENCY EVENT REPORT

Emergency Event Recording Sheets

- **Description of the Event**

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KROOMBIT DAM - EMERGENCY EVENT REPORT

Event Report - Kroombit Dam

Summary

Kroombit Dam was approximately 60% full in early December 2010. A series of rainfall events during mid December increased the storage level until it overflowed on the 20th. Prior to the spill event, downstream landholders were advised on the 15th of the probable spilling of the storage.

The peak of the event occurred on the 28th, after a large rainfall event. The peak flow would have occurred sometime during the night or early morning. Due to the flooding closing access roads, it was not possible to get anyone on site to observe the peak.

During January, February and early March the storage has continued to overtop regularly.

EMERGENCY ACTION PLAN - KROOMBIT DAM



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/Hoax/Other

Commencing: Time ____:____ am/pm; Date ²⁰23/12/2010 Finishing: Time ____:____ am/pm; Date 11/21-01-2011
& 8-02-2011 - 9-02-2011.

2. DESCRIPTION OF THE EVENT

Attach relevant sheets from Section 6.

3. STATISTICS

Total inflow	80,850	Megalitres
Total discharge	76,250 (to end of Feb)	Megalitres
Capacity of Storage prior to inflow	68% (10/12/10)	%
Volume prior to inflow	10,000	Megalitres
Maximum inflow	28,000	ML/d
Maximum discharge	28,000	ML/d

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

6. DAMAGE REPORT

Detail any damage to the Dam wall (or Embankment), Spillway, Abutments or Stream bank in the downstream area of the Dam. Attach photos.
Nil damage sustained to Dam infrastructure

Name: ...Daryl Conway.....Signed:........Designation Service Manager ..Date 14/3/2011

KROOMBIT DAM - EMERGENCY EVENT REPORT

Emergency Event Recording Sheets

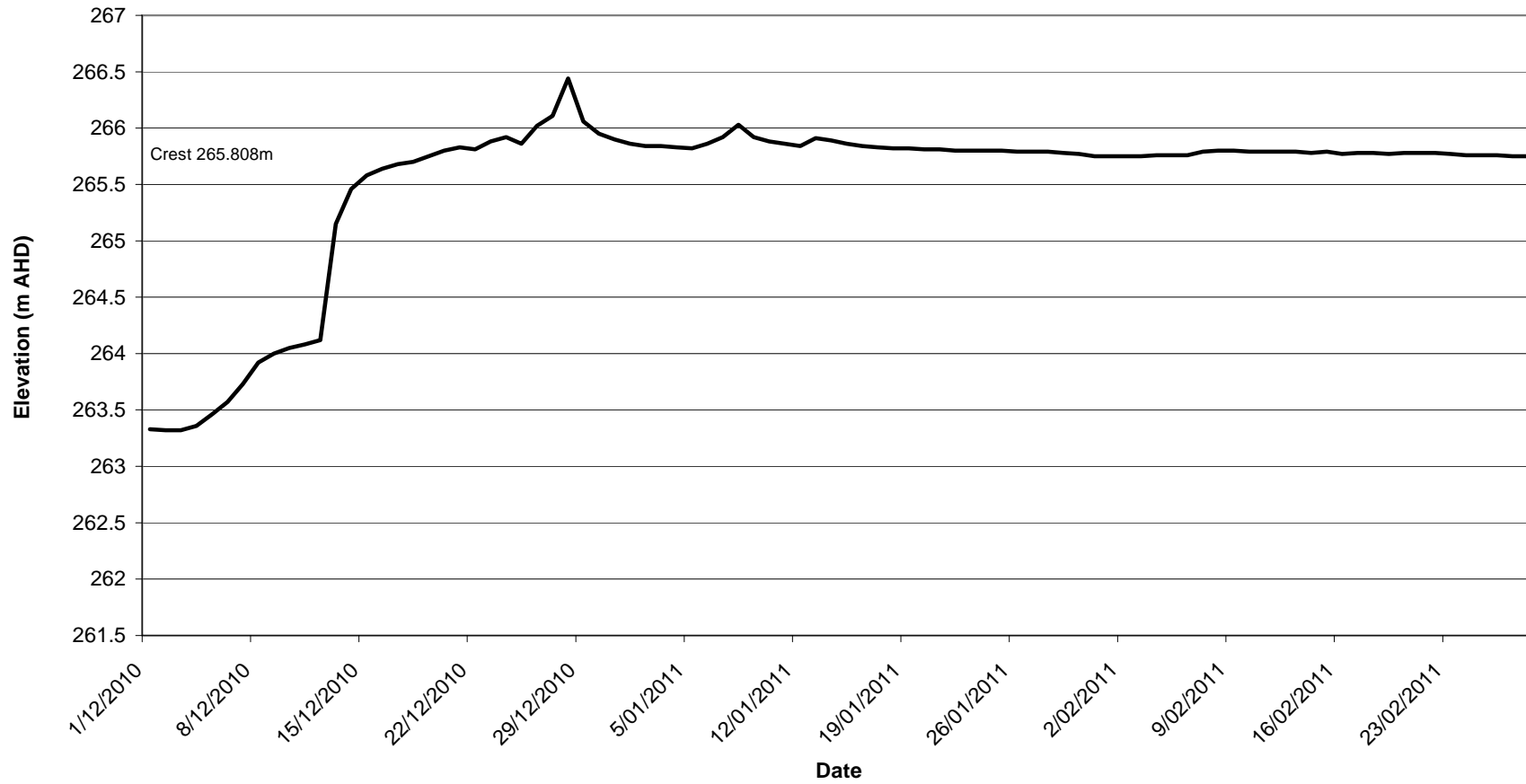
- **Instrument Readings and Level Data**

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Daily Storage Readings: Kroombit Dam

Date	Elevation (m AHD)	Storage (ML)	Rainfall (mm)
1/03/2011	265.75	14458	0
28/02/2011	265.75	14458	0
27/02/2011	265.75	14458	0
26/02/2011	265.76	14486	0
25/02/2011	265.76	14486	0
24/02/2011	265.76	14486	0
23/02/2011	265.77	14515	0
22/02/2011	265.78	14543	4
21/02/2011	265.78	14543	0
20/02/2011	265.78	14543	0
19/02/2011	265.77	14515	0
18/02/2011	265.78	14543	0
17/02/2011	265.78	14543	0
16/02/2011	265.77	14515	0
15/02/2011	265.79	14572	3
14/02/2011	265.78	14543	0
13/02/2011	265.79	14572	0
12/02/2011	265.79	14572	0
11/02/2011	265.79	14572	0
10/02/2011	265.79	14572	0
9/02/2011	265.8	14600	11
8/02/2011	265.8	14600	0
7/02/2011	265.79	14572	1
6/02/2011	265.76	14486	4
5/02/2011	265.76	14486	0
4/02/2011	265.76	14486	0
3/02/2011	265.75	14458	0
2/02/2011	265.75	14458	0
1/02/2011	265.75	14458	0
31/01/2011	265.75	14458	0
30/01/2011	265.77	14515	0
29/01/2011	265.78	14543	0
28/01/2011	265.79	14572	0
27/01/2011	265.79	14572	0
26/01/2011	265.79	14572	0
25/01/2011	265.8	14600	0
24/01/2011	265.8	14600	0
23/01/2011	265.8	14600	0
22/01/2011	265.8	14600	0
21/01/2011	265.81	14600	3
20/01/2011	265.81	14600	0
19/01/2011	265.82	14600	0
18/01/2011	265.82	14600	0
17/01/2011	265.83	14600	0
16/01/2011	265.84	14600	0
15/01/2011	265.86	14600	0
14/01/2011	265.89	14600	0
13/01/2011	265.91	14600	0
12/01/2011	265.84	14600	0
11/01/2011	265.86	14600	0
10/01/2011	265.88	14600	0
9/01/2011	265.92	14600	
8/01/2011	266.03	14600	
7/01/2011	265.92	14600	27
6/01/2011	265.86	14600	30
5/01/2011	265.82	14600	0
4/01/2011	265.83	14600	4
3/01/2011	265.84	14600	17
2/01/2011	265.84	14600	0
1/01/2011	265.86	14600	0
31/12/2010	265.9	14600	0
30/12/2010	265.95	14600	0
29/12/2010	266.06	14600	9
28/12/2010	266.44	14600	100
27/12/2010	266.11	14600	49
26/12/2010	266.02	14600	9
25/12/2010	265.86	14600	8
24/12/2010	265.92	14600	1
23/12/2010	265.88	14600	1
22/12/2010	265.81	14600	0
21/12/2010	265.83	14600	2
20/12/2010	265.8	14600	8
19/12/2010	265.75	14458	33
18/12/2010	265.7	14316	0
17/12/2010	265.68	14259	0
16/12/2010	265.64	14145	
15/12/2010	265.58	13976	0
14/12/2010	265.46	13641	0
13/12/2010	265.15	12798	18
12/12/2010	264.12	10243	
11/12/2010	264.08	10151	8
10/12/2010	264.05	10083	0

Kroombit Dam
Storage Performance Dec 2010 - Feb 2011



Flood Operation

Note: Refer to Page 2 for recording instructions **

Date:

SunWater
Section 6A: Page 1 of 4
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KROOMBIT DAM EAP

Flood Operation

Visual Inspection and Storage Report

Note: Refer to Page 2 for recording instructions **

Date: 21/12/10

	SUN	MON	TUE	WED	THU	FRI	SAT
Stored Water Level FSL 265.8 m		265.83		265.81	265.95		
Tail Water Level (m)		1.47		1.46	2.27		
Daily Rainfall (mm) Morning 9am		0		70mm	20		
Evening 3pm							
STAGE 1 at EL 265.8 m	STAGE 2 up to EL 269.33 m		STAGE 3 up to EL 270.7 m		STAGE 4 up to EL 271.57 m		STAGE 5 up to EL 271.95 m
Visual Inspection				First Inspection	Second Inspection (+6 hrs)	Third Inspection (+12 hrs)	
(Walk OR Drive at 10 km/hour. Write 'W' for walk and 'D' for Drive)							
Main Embankment				W	W	W	
Upstream Face (Use binoculars) General condition				NIL Good	NIL Good	NIL Good	
Damage, deterioration of concrete, movement, displacement				NIL	NIL	cc	
Displacement of riprap material, subsidence, slides, erosion				NIL	NIL	cc	
Sign of seepage				NIL	NIL	cc	
Downstream face General condition				NIL Good	NIL Good	cc Good	
Damage, deterioration of concrete, movement, displacement				NIL	NIL	cc	
Displacement of riprap material, subsidence, slides, erosion				NIL	NIL	cc	
Sign of seepage				NIL	NIL	cc	
Spillway General condition				NIL Good	NIL Good	cc Good	
Concrete Structure Damage, deterioration				NIL	NIL	cc	
Apron Damage, deterioration				NIL	NIL	cc	
Inlet Tower (within Right Abutment) General condition				NIL	NIL	cc	
Damage, deterioration				NIL	NIL	NIL	
Outlet Works General condition				NIL Good	NIL Good	NIL Good	
Damage, deterioration				NIL	NIL	NIL	
Reservoir Rim (Use binoculars) General condition				NIL Good	NIL Good	NIL Good	
Slumps, slips				NIL	NIL	NIL	
Area Downstream of Dam General condition				NIL Good	NIL Good	NIL Good	
Seepage from any location apart from seepage point				NIL	NIL	NIL	
New seepage point				NIL	NIL	NIL	
Details of significant changes. New occurrences and issues warranting further attention							
NO CHANGES							
Raining over catchment this morning 23/12/10 off							
Inspecting Officer's initials							
Fax to (tick if faxed)				Asset Engineering Manager / Service Delivery Manager			
				Principal Engineer (Dam Safety)			

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- **Description of Damage**

Nil Damage recorded

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- **Photos during and after the Event**

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11/1/2011

KROOMBIT DAM - EMERGENCY EVENT REPORT

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- **Details of Communication**

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EMERGENCY ACTION PLAN - KROOMBIT DAM

KROOMBIT DAM - EMERGENCY ACTION PLAN RECORD OF COMMUNICATION

DATE	TIME	CONTACT PERSON / TELEPHONE NO.	CALL IN / OUT	MESSAGE	RECORDED BY (INITIALS)
15/12/10	7:45	T. GOES		LEFT MESSAGE	
15/12/10	7:48	A. VAN DER KAM		Spoke to owner	
15/12/10	7:50	G. MAHUIRE		No Body Home No answering machine	
15/12/10	7:55	J. SHEPHERD		LEFT MESSAGE	
15/12/10	7:57	B. CURRIGR.		LEFT MESSAGE	
15/12/10	8:00	L. POLAKARICA		Spoke to owner	
15/12/10	8:02	J. ROSS		LEFT MESSAGE	
15/12/10	8:04	I. PRICE		Spoke to owner	
15/12/10	8:05	G. BOLSON		Spoke to owner	
15/12/10	8:08	BETTER HELP PULLING		NOT ANSWERING	
15/12/10	8:10	NA RIDE OUT		LEFT MESSAGE	
15/12/10	8:12	M. HOWARD		LEFT MESSAGE	
15/12/10	8:15	M. KURTZ		Spoke to owner	

EMERGENCY ACTION PLAN

KROOMBIT DAM



KROOMBIT DAM - EMERGENCY ACTION PLAN
RECORD OF COMMUNICATION

DATE	TIME	CONTACT PERSON / TELEPHONE NO.	CALL IN / OUT	MESSAGE	RECORDED BY (INITIALS)
20.12.10	10:15	Mal Malwala.	Out.	Kroombit Dam overflowing	
22.12.10	1330	BSC - Colin Head	Out.	Kroombit Dam storage level.	
22.12.10	1330	Old Police - Leisa	Out	Kroombit Dam storage level	

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EAP Recommendations:

- The EAP was considered adequate, with no major issues noted during the event.