

**FLOOD RESPONSE PROCEDURE –
GOONDIWINDI LOCAL AREA**

Version	Copy No.	Issued To:		Date
		Name	Organisation	

1. Purpose

The purpose of this procedure is to provide a framework of duties and responsibilities to be undertaken by Council, for a flooding event within the Goondiwindi town levee area of Goondiwindi Regional Council.

2. Scope

This procedure applies to the area within the Goondiwindi town levee of Goondiwindi Regional Council.

3. Flood Event Category – Macintyre Bridge Goondiwindi

In general terms, a minor flood is designated as 3.0m to 6.0m, a moderate flood as 6.0m to 8.5m and a major flood as greater than 8.5m.

Category	Flood Height	
	Minor	3.0m
Moderate	6.0m	8.5m
Major	8.5m	

4. Historical and Possible Flood Information

Probable Maximum Flood (PMF) level – Gauge Reading 10.85m (35ft 7")

Date	Feet/ Inches (Gdi)	Gauge Reading	
		Goondiwindi	Boggabilla
January 2011	34ft 11"	10.64m	12.56m
September 2010	29ft 9"	8.98m	9.94m
January 1996	34ft 10"	10.61m	12.51m
May 1983	34ft 1.5"	10.40m	11.85m
February 1976	34ft 5.5"	10.50m	12.80m
December 1970	33ft 11"	10.34m	11.63m
Q100 (Predicted)	35ft 0.5"	10.68m	12.72m

Date: 03/05/11
 Exhibit Number: 239

QFCI

- ⇒ In September 2010 at a gauge reading of 8.98m flood water crossed the Barwon Highway immediately west of the vacant industrial land near Goodar Road. The depth was estimated at 100mm.
- ⇒ Flood water overtopped the Corcoran Creek block and gate at a river height of approximately 7m on the western side of the botanical gardens, entered the lake and forced water back into the drain from Sandal wood Drive.
- ⇒ Flood water surcharged through the disused pump at the end of Coleborn Road.

5. Storm Water System- Low Areas

Low points in the stormwater system, where flood water will surcharge out of storm water pits, if flood gates are left open during a flood event are detailed below.

System	Location	River Height	
		Metres	Feet/ Inches
Boyle Street	21 Winton Street	7.75m	25ft 5"
Callandoon Street	76 Russell Street	7.75m	25ft 5"
Short Street	11 Everingham Drive	7.72m	25ft 4"
Brook Street	Picking Street (between Cairns & West Streets)	8.07m	26ft 5"
Herbert Street	North-eastern corner of Marshall Street & Moffatt Street	8.72m	28ft 7"
Pratten Street	Delacy Street (opposite Caravan Park)	9.65m	31ft 7"

6. Flood Pump Site Details

Location	Pump Name & No	Depth of Manhole	Comments
Pratten Street	Miller 5025	4.1m	
Boyle Street	Miller 5024	5.8m	
Short Street	Miller 5023	5.4m	
Herbert Street	Macquarie 5019	2.76m	Requires 540 PTO on tractor
Callandoon Street	Macquarie 5018	5.0m	Requires 540 PTO on tractor
Brook Street	Southern Cross 5032	5.15m	
River Gums Drive	Honda 75mm 6552	4.18m	

7. Flood Response Activities

Upon advice from the Bureau of Meteorology that the Macintyre River is expecting a minor, moderate or major river peak, the following actions must be implemented in accordance with the predicted peak.

River Height	Description	Action
3.8m	Flood Gate/Flap/Valve Intervention	Implement the Flood Response Checklist (3.8 Meters)
7m	Flood Pumps	Undertake risk assessment prior to the installation of pumps
		Install pumps at flood pump sites and ensure they are operational
		If storms are predicted staff are to be made available for shift work over night so that pumps can be started immediately.
8.5m	Flood Gate/Flap/Valve Intervention	Implement the Flood Response Checklist (8.5 Metres)
	Botanical Gardens	Botanic garden pond to be lowered by approximately 1.2m through the control gate to Yambocully channel.
9.5m or greater	Slashing of Levee Banks	Slash the top & sides of the full length of levees, especially banks that known problem areas such as Peter Smiths.

8. Routine Inspection/Maintenance ?????

- ⇒ Flood gates and flaps are to be inspected and maintained quarterly. This includes herbicide control, greasing and other mechanical repairs as required.
- ⇒ All flood pumps are to be checked by Workshop staff on a quarterly basis as of March 2010
- ⇒ Levee banks are to be inspected at 6 monthly intervals and prior to and following advice of potential moderate to major flooding events

9. General Notes

- ⇒ Ensure that additional staff resources are available to assist Stores during major flood events.
- ⇒ Arrange for an area to be set up for the general public to fill sand bags at the depot clear from any working machinery.
- ⇒ When formulating rotating shifts to man flood pumps, ensure that atleast one person for each shift is able to operate the pumps.



**FLOOD RESPONSE CHECKLIST (3.8 meters) –
GOONDIWINDI LOCAL AREA**

The following flood gates, flaps and/or valve were		Checked by	Date:
Opened/Closed by	Date:	Name:	Date:

The following flood gates, flaps and/or valves are to be closed at 3.8 metres. Visually check that all gates have sealed following closure. A map of flood gate locations is attached. **NOTE: ALL FLOOD GATES SHOULD BE OPENED SLOWLY TO REDUCE THE EFFECT OF POSSIBLE DRAWDOWN**

Location	Qty	Type	Action	Comments	Opened	Closed
Town Common Road	1	Access gate on roadway	To be closed by Callandoon Water Board	Access will not be available to the public		
			Erect 'Road Closed' sign at the end of the sealed section of Town Common Road	Sign to remain for the duration of the flood event		
Cultural Centre	1	Flap	Lock onto locating device	If this flap is not locked the flow direction will force it to open.		
Coleborn Road	1	Gate	Clean platform and check pump is locked and secure			
Waggamba Road	2	Gate	One gate in GRC paddock is kept locked.			
Botanical Gardens	1			Inlet from Yambocully Channel to Botanical Gardens		
Brennans Road (West End)	1					
Botanical Gardens (West Side)	2	Gate	The footway on the eastern side of Botanical views estate should be sandbagged at height of less than 7m if river is expected to peak around 10m.	Gate near entrance to gardens & on walkway		
Hospital Carpark	1	Valve		Garden area		
Bowls Club	2	Valve		River end No. 2 Rink		
MacIntyre/Delacy Street	1	Flap		River		
Golden Age Centre	1	Flap		River		
No.27 Rivergums Drive	1	Flap		River		
Marshall St/Pfingst St	1	Flap		Creek		

Location	Qty	Type	Action	Comments	Opened	Closed
Pratten Street	1	Gate		River – Confined Space Entry		
Herbert Street	1	Gate		River – Confined Space Entry		
Callandoon Street	1	Gate		River – Confined Space Entry		
Boyle Street	1	Gate		River – Confined Space Entry		
Short Street	1	Gate		River – Confined Space Entry		
Brook Street	1	Gate		River – Confined Space Entry		



**FLOOD RESPONSE CHECKLIST (8.5 metres) –
GOONDIWINDI LOCAL AREA**

The following flood gates, flaps and/or valve were	
Opened/Closed by	Checked by
Name:	Date:
Name:	Date:

The following flood gates, flaps and/or valves are to be closed at 8.5 metres. Visually check that all gates have sealed following closure. A map of flood gate locations is attached. **NOTE: ALL FLOOD GATES SHOULD BE OPENED SLOWLY TO REDUCE THE EFFECT OF POSSIBLE DRAWDOWN**

Location	Qty	Type	Action	Comments	Opened	Closed
Various – Refer to map	7	Flood Pumps	Position Flood Pumps and erect area/road closed signs	Pumps are to remain until level falls below 3.8m. If further rises are predicted leave in position.		
Cunningham Hwy Roundabout		Removable Boards	Insert plywood boards into angle iron sleeves on culvert at highway roundabout	Inserted when Serpentine Creek is at it's maximum level of 215.26m (nail in pier)		
Kildonan Road	1	Gate	Monitor water levels & close when necessary			
Marshall Street	1	Earth Bank	Construct earth bank across Serpentine Creek when Creek is at maximum level (nail in pier)	Excess water from Northern side can be pumped over bank if necessary		
Frideswide Street	1	Gate	Close at 8m or when flood water has filled the water park and level has reached maximum height at the stockyard bridge in Lamberth Road (nail in timber pier at RL 215.26m)			
Raymond's Subdivision	1	Gate	Close while Serpentine Creek is being filled; however if it is raining leave open and monitor	Monitor		
Gibson St (In Culverts)	1	Flap		Creek		
Urban & Rural Area Town Levee		Earth Levee	Regular Inspections	Ensure that levee is adequate, not leaking or is in danger of being overtopped		

Yambocully Drain	1	Gate	Discharges from Yambocully main supply channel.	Monitor	
Johnston Road	4	Flap		3 to drain 1 to Ck (has GPT)	
Malibu Drive	1	Flap		Has GPT.	
Kildonan Road	2x150mm, 4x150mm	Flap		On levee bank	
Pfingst Street	2	Flap		Creek	
Octagonal Court	1	Flap		Creek	
Tulloch Court	1	Flap		Creek	
Bemborough Court	1	Flap		Creek	
Park Avenue	1	Flap		Creek	
Ardmore Court	1	Flap		Creek	
Coolabah Court	1	Flap		Creek	
Jacaranda Drive (West)	1	Flap		Creek	
Frideswide Street (North)	1	Flap		Creek	
James Ryan Drive (North West)	1	Flap		Creek	
Veronica Place	1	Flap		Creek – Lamberth Rd.	
James Norman Drive	2	Flap		Both have GPTs. – Ck.	
Henderson Road	1	Flap		Ck, Dean's Panel Works	
George Street (East)	2	Flap		Creek	
Serpentine Drive (West)	1	Flap		Creek	
Jabiru Drive	1	Flap		Creek	
Mann Street	2	Flap	One flap is leaking and requires maintenance	Creek	

Attachment C: Flood Gate/Flap/Valve Location Map

