



J. Appendix J: SES Flood Intelligence Draft Updates

Flood Intelligence Cards

Holbrook No. 3 (410187) Gauge

Notes:

- The precise location of the gauge was confirmed with the NSW Office of Water hydrographer. This longitude/latitude reported below reflects this location as extracted from the GIS system rather than the coordinates reported in the NoW site summary
- This will require revision if a levee to partly protect properties in South Holbrook is constructed

HOLBROOK NO. 3 GAUGE - STATION NUMBER: 410187

Tuesday, 17 January 2017

Stream:	Ten Mile Creek	Gauge Zero:	268.86
Location:	Holbrook No. 3 gauge, 5.7km upstream from Albury Street Bridge (access via Jingellic Road) Long: 147.3456 Lat: -35.7558 GDA94	Datum Type:	AHD
Minor:	Moderate:	Major:	Levee Height: N/a
Design Flood Levels: <i>Culcairn, Henty and Holbrook Flood Studies</i> (WMAwater, 2013)			

Class	Height	Consequences
		Note: This gauge could provide limited warning of flooding downstream at Holbrook. However, Holbrook is considered beyond this gauge's reference area, with significant tributaries joining between this gauge and the town. For this reason, few consequences are described here.
	2.00	5 year ARI flood.
	2.03	5 February 2011 Peak height. No adverse consequences reported.
	2.27	10 year ARI flood.
	2.32	9 December 2010 Peak height. No adverse consequences reported.
	2.50	11 February 2011 Peak height. No adverse consequences reported.
	2.71	19 February 2011 Peak height. Hay Street partly inundated and closed.
	2.81	20 year ARI flood. The Flood Study suggests that flows would begin to spill out to affect Macinnes and Bardwell Streets, though this was not observed in the March 2012 flood, which suggests that the design flood heights extracted from the model for this gauge may be understated.
	2.95	4 March 2012 Peak height. Ten Mile Creek Gardens flooded including Miniature Railway station. Hay Street flooded plus eastern side of Albury Street near Pottery Museum. No houses or businesses flooded over floor. (Note, although some yards were flooded in properties in Macinnes Street and Bardwell Street, this water is believed to have originated from a flowpath to the south and not from break outs from Ten Mile Creek – see Flood Study p.58).
	3.17	50 year ARI flood.
	3.49	100 year ARI flood.
	3.78	200 year ARI flood.
	3.89	15 October 2010 Peak height. Refer to property register in Bewsher Consulting (2012) report for detailed listing of consequences. 25+ houses and 10+ businesses or public sector buildings inundated including two motels. Macinnes Street, Bardwell Street, Murray Street, Hay Street, Nolan Street, Byng Street, Albury Street (Hume Highway), Nyhan Street, Young Street all affected.
	7.21	PMF peak height.

Holbrook Manual Gauge

Note:

- This will require revision if a levee to partly protect properties in South Holbrook is constructed

HOLBROOK (ALBURY STREET BRIDGE) GAUGE - STATION NUMBER: TBC

Tuesday, 17 January 2017

Stream:	Ten Mile Creek	Gauge Zero:	257.13
Location:	Manual gauge on downstream pylon of Albury Street (Hume Highway) Bridge, Holbrook	Datum Type:	AHD
	Long: 147.3124 Lat: -35.7256 GDA94	Owner:	GHSC
Minor:	Moderate:	Major:	Levee Height: N/a
Design Flood Levels: <i>Calcairn, Henty and Holbrook Flood Studies</i> (WMAwater, 2013)			

Class	Height	Consequences
	1.5	17 February 2011. Peak height. Miniature railway tracks and walkway under Albury Street Bridge (both sides) inundated – up to the grate behind the Shire Hall.
	2.1	5 February 2011 Peak height. No adverse consequences reported.
	2.3	11 February 2011 Peak height. No adverse consequences reported.
	2.37	5 year ARI flood. Largely contained within channel. Ten Mile Creek Gardens partly flooded. No houses flooded over floor.
	2.64	10 year ARI flood. Ten Mile Creek Gardens flooded. Water reaches Hay Street. No houses flooded over floor.
	2.65	4 March 2012 Peak height. Ten Mile Creek Gardens flooded including Miniature Railway station. Hay Street flooded plus eastern side of Albury Street near Pottery Museum. No houses or businesses flooded over floor. (Note, although some yards were flooded in properties in Macinnes Street and Bardwell Street, this water is believed to have originated from a flowpath to the south and not from break outs from Ten Mile Creek – see Flood Study p.58).
	3.07	20 year ARI flood. Floodwater surcharges creek upstream of Macinnes Street, inundating some properties in Macinnes, Bardwell, Albury and Nyhan Streets. Hay Street flooded. About 5-10 houses flooded over floor.
	3.22	50 year ARI flood. Extensive though relatively shallow flooding in South Holbrook, including much of Albury Street. Some houses along Jingellic Road between Pound Lane and Young Street surrounded by floodwater. About 20 houses flooded over floor.
	3.34	100 year ARI flood. Extensive though low hydraulic hazard flooding in South Holbrook, with ever shrinking 'islands'. Road to caravan park flooded. Electricity substation on Jingellic Road begins to be flooded. About 30 houses flooded over floor.
	3.43	200 year ARI flood. Extensive flooding in South Holbrook with about half of caravan park under water. Electricity substation on Jingellic Road half flooded. About 40 houses and 10 non-residential buildings flooded over floor.
	3.5	15 October 2010 Peak height. Refer to property register in Bewsher Consulting (2012) report for detailed listing of consequences. 25+ houses and 10+ businesses or public sector buildings flooded over floor including two motels. Macinnes Street, Bardwell Street, Murray Street, Hay Street, Nolan Street, Byng Street, Albury Street (Hume Highway), Nyhan Street, Young Street all affected.
	5.45	PMF peak height. Extensive areas of high hydraulic hazard flooding including all of South Holbrook plus several properties east of Holbrook (in Jingellic Road, Malabar Road, Pound Lane, Young Street) and much of 'central' Holbrook (south of about Hume Street, west of about Welton Street and Bond Street). About 350 houses and 60 non-residential buildings flooded over floor.