



Interference Reference	Channel Chainage (m)	General description of new works
C01_W01	C01_3600 to C01_18795	The areas designated as "Washlands" are those areas adjacent to the river (and part of the Lee floodplain) which under the Scheme, will be deliberately flooded in advance of a forecasted extreme event, to facilitate pre-emptive lowering of water levels in Carrigrohid and Inniscarra reservoirs, to create additional storage/attenuation capacity, and subsequently reduce the peak flow during the event.

Flood State Ref.	Description of Flood State	General Action Required (Dam Discharge)	Envisaged Frequency of Occurrence post-scheme	Historic Frequency of discharges (based on review of last 10 years of record)	Notes
D	Period between 96 and 48 hours before inflows to Carrigrohid predicted to exceed 180m <sup>3</sup> /s.	Draw reservoirs down to Flood Risk Level (FRL), based on rate calculated by FFS, which will not normally exceed discharge of 150m <sup>3</sup> /s from Inniscarra.	Considered likely to occur on average up to <b>10 to 15 days per year</b> .	For 100 days over last 10 years, discharges exceeded 150m <sup>3</sup> /s so 10 days per year on average.	Negligible change envisaged in discharges up to 150m <sup>3</sup> /s.
C	Period between 48 and 24 hours before inflows to Carrigrohid predicted to exceed 285m <sup>3</sup> /s.	<b>Discharge up to 200m<sup>3</sup>/s from Inniscarra</b> (or as close to as possible given available head at dam gates).	Considered likely to occur on average up to <b>4 days per year</b> .	For 33 days over last 10 years, discharges exceeded 200m <sup>3</sup> /s so 3 days per year on average.	Very marginal increase in frequency envisaged in discharges of between 150m <sup>3</sup> /s to 200m <sup>3</sup> /s.
B	Period between 24 and 3 hours before inflows to Carrigrohid predicted to exceed 285m <sup>3</sup> /s.	<b>Discharge up to 300m<sup>3</sup>/s from Inniscarra</b> (or as close to as possible given available head at dam gates).	Considered likely to occur on average up to <b>2 days per year</b> .	Only one occurrence over last 10 years.	Discharges between 200m <sup>3</sup> /s and 300m <sup>3</sup> /s will become significantly more frequent under the proposed scheme with an occurrence expected to occur once or twice per year. The flood extents for a 300m <sup>3</sup> /s discharge is illustrated on this drawing for information. This action is needed to ensure storage is available during the peak of extreme events.
A	When the 400m <sup>3</sup> /s threshold inflow to Carrigrohid is crossed (or forecast (based on observed rainfall) to be exceeded at a short lead time of 3 hours).	Manage flow at 540m <sup>3</sup> /s or less through Cork by adjusting Inniscarra discharge allowing for predicted inflow from downstream tributaries. (FFS will calculate required discharge). <b>Discharge from Inniscarra likely to be between 300m<sup>3</sup>/s and 400m<sup>3</sup>/s.</b>	Considered likely to occur on average, <b>once every 3 to 5 years</b> .	Only one occurrence over last 10 years.	Minor increase in the frequency of such discharges as this will only occur around the peak of extreme events. The post-scheme 1% AEP flood extents is illustrated on this drawing for information.

Location Plan Scale 1:5,000 at A1 Scale 1:10,000 at A3



**Legend:**

- Flood Extents for current maximum Inniscarra pre-flood discharge of 150m<sup>3</sup>/s (assuming median annual flood on downstream tributaries)
- Proposed Washlands: Flood Extents for proposed maximum Inniscarra pre-flood discharge of 300m<sup>3</sup>/s (assuming median annual flood on downstream tributaries)
- Post-scheme 1% AEP Fluvial Flood Extents
- Watercourse

- Notes:
- Do not scale from drawing.
  - The channels on this drawing have been assigned colours for the purpose of assigning identification labels and interference references.
  - This drawing should be read in conjunction with all other Lower Lee (Cork City) Drainage Scheme Exhibition Drawings and Schedules.

Drg. No. LL\_604 Designated Washlands / Floodplains (Sheet 4 of 4)

