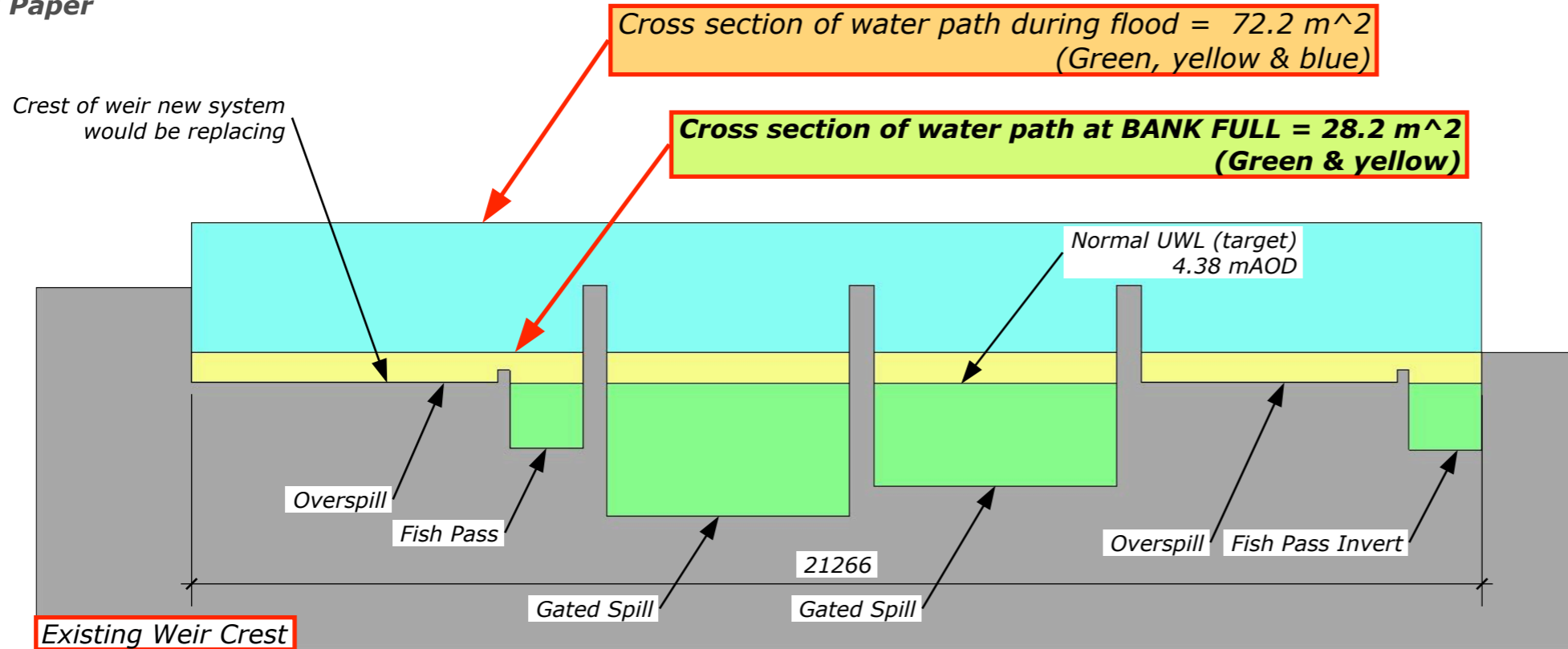


Scale = 1:100
A3 Paper



Area for flood passage:

Comparison @ Full 100 Yr + CC Water Level
Existing cross section (ignoring walkway)
= 72.2 m²

Screw system with Upstream inverts set to 1 mAOD - cross section during flood (screws lift clear of upper water)
= 102.4 m² (42% increase)

Increase in flow area of 30.2 m²

Compare this to idea of five additional 3.5 m wide gates installed in the fixed weir.

If the new gates have an invert of 1 mAOD AND if we assume the current fixed weir crest is the same as the target UWL (4.38 mAOD) - it will actually be lower THEN the additional flow area from these five gates = 59.15 m²

The proposed screw system provides nearly half of this cross section.

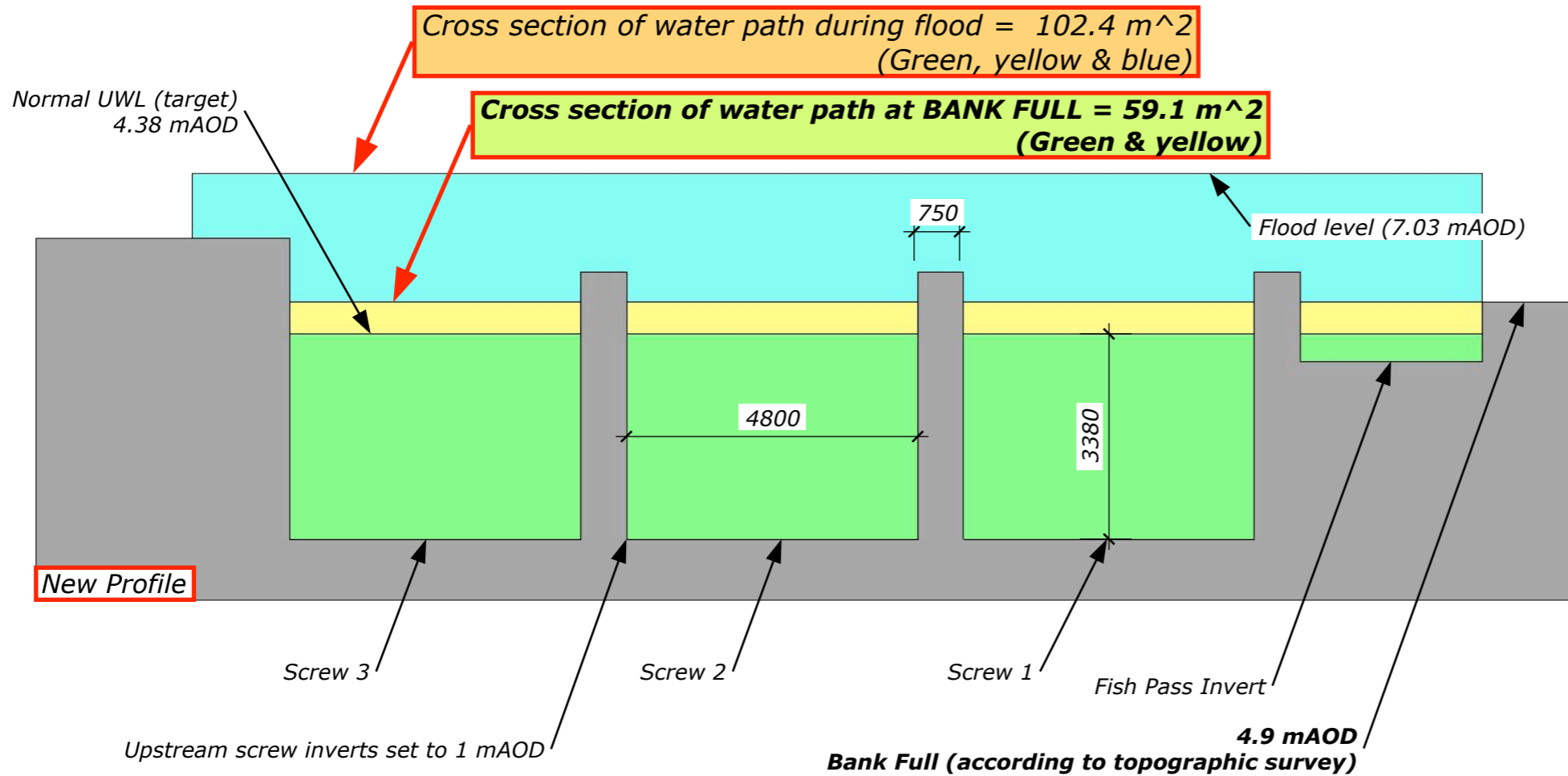
Comparison @ Bank Full

Existing cross section (ignoring walkway)
= 28.2 m²

Screw system with Upstream inverts set to 1 mAOD - cross section during flood (screws lift clear of upper water)
= 59.1 m²

Increased cross section = 31 m² (109% increase)

Bank full estimated from topographic data along the bank immediately upstream of the weir on the Lensbury side of the river



August 6, 2015 (V01)

1. First Issue

December 7, 2015 (V02)

1. Adjusted screw channel widths slightly to reflect current status (Each is 0.06 m narrower now)
2. NOTED BANK FULL condition - and cross sectional areas at Bank Full