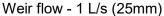


Association of Hydraulic Services Consultants Australia – Research Foundation

Flow Characteristic Curve - R150SR4 100 90 80 70 Nater Head Level (mm) 60 50 40 30 TRANSITION FLOW REGION Please note that the water depth levels in this shaded area 20 of the chart were observed to fluctuate continuously between maximum and minimum levels due to the transition between weir and orifice flow conditions occurring 10 at the outlet. Only the maximum observed water levels are plotted on this chart. 2 Flow Rate (L/s)







Surcharged flow – 3 L/s (75mm)

Observation Comments:

- Flow rates from 0-2 L/s (60mm Head) produced a linear characteristic curve. At 2.5 L/s the weir flow transitioned to vortex flow with the head level stabilising at 55-60mm.
- Flow rates from 3-5 L/s the vortex surcharged and transitioned to orifice conditions, characterised by the water level fluctuating 10 -20mm.
- The maximum flow limit to maintain weir flow conditions is 2.5 L/s.

I hereby certify that the test results presented on this outlet performance certificate are true and correct and were obtained using recognised AHSCA Gutter Outlet Testing procedures.

Dr Terry Lucke,

Chief Researcher:

Mark Alexander,

AHSCA Foundation Chairman:

Date: 16th November 2016 Date: 16th November 2016