



HYDRAULIC TESTING & CERTIFICATION

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8 Rawnsley St, Dutton Park, Q 4102

'Testing the Water'

HTC Reference: Q3000

Attn: Carol Williamson

Report Issued: 2nd October, 2018

BRW Enterprises

Flow and Pressure Test Report for 655 Toohey Road, Salisbury





Test 1: Hydrant (H1) and 225MM CI water main performance test. Water was drawn, at the flow rates below, from both outlets of a standpipe attached to street spring hydrant H1, suction side of QUU pump. The pressure was recorded at the outlet of H1 to determine the hydrant performance. This test is used to determine if the hydrant meets the flow and pressure requirements of AS2419.1 (if applicable). The water main residual pressure was measured from a standpipe attached to spring hydrant H2.

Flow - H1 (L/s)	Hydrant Pressure - H1 (kPa)	Water Main Residual Pressure - H2 (kPa)
0	420	425
10	370	410
20	220	405
29.3	0	385

Test 2: Hydrant (H4) performance test. Water was drawn, at the flow rates below, from both outlets of a standpipe attached to street spring hydrant H4, QUU Pump discharge. The water main residual pressure was measured from a standpipe attached to spring hydrant H3. This test is used to determine the performance of the street main to design an on-site hydrant main (if applicable).

Flow - H4 (L/s)	Hydrant Pressure - H4 (kPa)	Water Main Residual Pressure - H3 (kPa)
0	510	535
10	380	525
20	20	445

Test 2 comments: The two isolation valves seen in image 1 between H2 and H3 are in the open position. The pump did not sound like it ramped up during test 2 (or 1).

Hydrant Condition: H1, H2 and H3 were in good condition with a powder coat exterior. H4 had a corroded cast iron exterior suggesting the hydrant performance would improve if it were replaced.

Test time and date: 10:45 am, 25th of September, 2018

Technician: Daniel Barwick

Notes:

1. The test results are correct at the time of the tests
2. It is the responsibility of the recipient to determine the effect of changes in domestic/industrial usage, modifications to the main, differences in RL and extra hydraulic losses between the hydrant and tie in locations
3. Flow meters and pressure gauges are calibrated annually
4. Flows are accurate to $\pm 0.2\text{L/s}$. Pressures are accurate to $\pm 10\text{kPa}$

Thank you for engaging HTC. Please do not hesitate to call me on 0429 000 302 should you have any queries. Regards,

**Daniel Barwick**MIEAust CPEng, RPEQ
AHSCA & FPA Member

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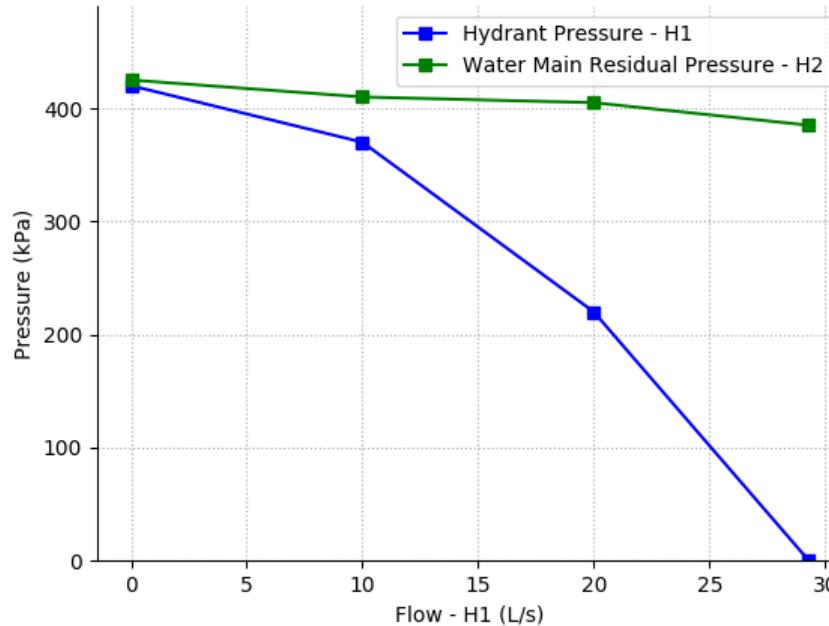
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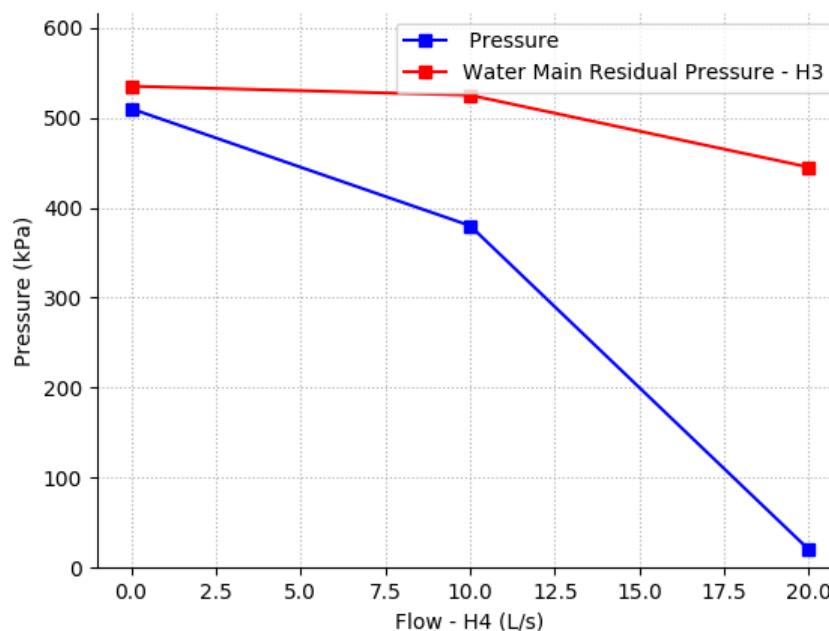
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Appendix 1: Test Result Graphs



Test 1: Hydrant (H1) and 225MM CI water main performance test



Test 2: Hydrant (H4) performance test



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Appendix 2: Test Images



Image 1: H1 to the left, H2 in the center and H3 (without a standpipe) to the right. The QUU pump case can be seen.