



# Commission Report

## by Instant Firefighter P/L

### Stage 2 - Fire Hydrant System Upgrade

Address: 230 Rosanna Rd, Rosanna

Site: Stage 2 - St Francis Assisi House, Aged Care Facility

Report Number: 13760

Date: 4/9/2013

Results: **Compliant**

Fire hydrant pressure and flow was 360 kPa @ 10.2 L/s

When operated the isolation valve isolated the fire hydrant system from the town's main reticulated water supply.

The hydrostatic test recorded a flow loss of zero L/m

The friction loss recorded in the fire service was 130 kPa

**Tests were performed in accordance with AS 2419.1 2005**

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**Signed**

Ray Costello Director, Instant Firefighter P/L  
trading as ifirefighter.

## Stage 2 - Fire Hydrant System Upgrade



**1. Address:** 230 Rosanna Rd, Rosanna

**2. Fire Authority:** MFB

**3. Water Supply:**

Grade: Grade 3

System: Boosted (assisted)

The water supply is feed via: Town's main reticulated water supply

**4. Fire Hydrant System:**

Sluice valve: n/a

Materials used: Galvanised (GWI) rolled grooved pipe

Diameter of pipe: 100mm

Upgraded Fire service consists of: Attack Fire Hydrants & Isolation Valves

Number of fire hydrants: 3

**5. Equipment Inspected:**

**Isolation Valves:**

Primary: Wheel handle isolation valve located at the fire hydrant booster assembly.

Secondary: Sluice Valve

Check Valve: At the hydrant booster assembly

**Upgrade Hydrant/s:**

External: 0

Internal: 3

The type of Milcock connections: Storz, Single

**Existing Hydrant Booster:**

Located: Facing Rosanna Rd, inside a cut out in the front fence.

Approximately 50 meters left of the main drive way entrance

Type of connection: Dual , Stortz head

**Upgraded Block plan:**

Inside a pipe sleeve attached to the booster assembly.

## Stage 2 - Fire Hydrant System Upgrade



### **6. Fire Hydrant Pressure & Flow results:**

The static pressure recorded was: 660 kPa

The residual pressure of the upgraded Stage 2, Most

Disadvantaged fire Hydrant (MDH) was: 360 kPa

MDH located: at the North East corner of Stage 2, on level 1.

The results indicate that when tested through a single head fire hydrant riser the required pressure (350 kPa) and flow was achieved (10 L/s).

The flow test was recorded using a 22mm nozzle opening.

The residual pressure and flow recorded was 360kPa @ 10.2 L/s in accordance with AS 2419.1 2005

When operated the isolation valve isolated the fire hydrant system from the town's main reticulated water supply.

The fire hydrant system was pressurised at the booster and achieved 700 kPa at the MDH.

Comments: The upgrade to stage 2 superseded the most disadvantaged fire hydrant of the existing system.

## Stage 2 - Fire Hydrant System Upgrade



### **7. Hydrostatic Tests:**

The fire service was isolated from the Town's main reticulated water supply by the primary isolation valve

The static pressure of 660 kPa in the fire hydrant service was hydrostatically increased to 1400 kpa for a period of 2 hours.

During the hydrostatic test, a metered flow loss of zero L/m was recorded. This is consistent with the BCC Practise Note Guide Line No 38 (Maximum allowable flow is 15 L/m).

The test was commenced at 7.15am and completed by 10.15am

Comments: Passed, exiting pipe work in the system is only suitable to be pressurised to 1400 kpa.

### **8. Pump Appliance Test:**

The fire service was tested for friction loss thru the fire hydrant booster connector to the MDH located at the North East corner of Stage 2, on level 1.

The fire hydrant service with the addition and use of a mobile pump was increased to a residual pressure of 860 kpa at the hydrant booster.

Simultaneously the residual flow pressure at the MDH fire hydrant recorded 700 kpa.

The total friction loss recorded was 130 kpa (Note: 30 kpa friction loss reductions are allowed thru the hydrant booster connections).

Comments: Passed

## Stage 2 - Fire Hydrant System Upgrade



### 9. Comments:

This site is still under construction and will terminate on the completion of Stage 3. This report is relative to Stage 2 only

Previous commission of Stage 1 – The Instant Firefighter report # 12283.

### 10. Recommendations:

Nil

### 11. Tested:

This inspection covers the items specified in AS 2419.1 2005, in conjunction with Australian Standard 3500.1.2

### 12. Compliance:

At the time of inspection it is hereby certified that the fore mentioned firefighting equipment was found to be installed & capable of operating, in accordance with the requirements of the standard recognised when this fire hydrant system was installed, AS 2419.1 2005.

### 13. Inspection & Test: 4/9/2013

Inspection & Tests performed by Ray Costello & Trent Costello-Manning, Instant Firefighter P/L  
Register Technician Accredited and Certified MFB/CFA/AFSPAB  
REG: PIC No 13,915 expiry 12/09/2014

Yours faithfully,  
Ray Costello  
ifirefighter