

Appendix A

Sydney Water Feasibility Letter
(Preliminary Section 73
Requirements)



Case Number: 106796

29 June 2007

Parsons Brinckerhoff (Des)
c/- Michael Bell & Partners P/L

FEASIBILITY LETTER

Developer: Parsons Brinckerhoff (Des)
Your reference: 07051
Development: Eveleigh Street Redfern
Development Description: Pemulwuy Project being Proposed Redevelopment of Site with Housing, Community Facilities and Office and Retail Space
Your application date: 27 March 2007

Dear Applicant

This Feasibility Letter (Letter) is a guide only. It provides general information about what Sydney Water's requirements could be if you applied to us for a Section 73 Certificate (Certificate) for your proposed development. **The information is accurate at today's date only.**

If you obtain development consent for that development from your consent authority (this is usually your local Council) they will require you to apply to us for a Section 73 Certificate. You will need to submit a new application (and pay another application fee) to us for that Certificate by using your current or another Water Servicing Coordinator (Coordinator).

Sydney Water will then send you either a:

- Notice of Requirements (Notice) and Works Agreement (Agreement); or
- Certificate.

These documents will be the definitive statement of Sydney Water's requirements.

There may be changes in Sydney Water's requirements between the issue dates of this Letter and the Notice or Certificate. The changes may be:

1. Developer Charges

- (a) Adjustment of charges due to the Consumer Price Index (CPI);
- (b) Adjustment of charges because of a scheduled review by the Independent Pricing and Review Tribunal (IPART). After that review and registration of the new charges, Sydney Water has to apply those charges; or

- (c) If there is rezoning of any land within the development proposal then new charges will apply.

2. Reticulation Recovery Charges

These charges recover part of the cost of works that have been paid for by Sydney Water or other developers and that benefit your development. This charge has been made before your points of connection have been determined. If your completed designs show that your development will be connected to other main/s, the charge may be changed and/or you may need to construct other works.

3. Changing the Proposed Development

If you change your proposed development, e.g. the development description or the plan/site layout, after today, the requirements in this Letter could change when you submit your new application.

Also, if you decide to do your development in stages then you must submit a new application (and pay another application fee) for each stage.

What You Must Do To Get A Section 73 Certificate

To get a Section 73 Certificate you must do the following things. You can also find out about this process by visiting www.sydneywater.com.au > Building Developing and Plumbing > Developing Your Land.

1. **Obtain Development Consent from the consent authority for your development proposal.**
2. **Engage a Water Servicing Coordinator (Coordinator).**

You must engage your current or another authorised Coordinator to manage the design and construction of works that you must provide, at your cost, to service your development. Before you engage another Coordinator you must write and tell Sydney Water.

For a list of authorised Coordinators, either visit www.sydneywater.com.au > Building Developing and Plumbing > Developing Your Land or call **13 20 92**.

The Coordinator will be your point of contact with Sydney Water. They can answer most questions that you might have about the process and developer charges and can give you a quote or information about costs for services/works (including Sydney Water costs).

3. Works Agreement

After the Coordinator has submitted your new application, they will receive the Sydney Water Notice and Works Agreement. You will need to sign and lodge **both originals** of that Agreement with your nominated Coordinator.

The agreement sets out for this development:

- your responsibilities;
- Sydney Water's responsibilities; and
- the Coordinator's responsibilities.

You must do all the things that we ask you to do in that Agreement. This is because lots in your development do not have Water services and you must construct and pay for the following works extensions under this Agreement to provide these services.

After Sydney Water has signed the documents, one of them will be returned to your Coordinator.

Note: The Coordinator must be fully authorised by us for the whole time of the Agreement.

4. Water and Sewer Works

4.1 Water

Your development must have a frontage to a water main that is the right size and can be used for connection.

Sydney Water has assessed your application and found that:

- **You must construct a water main replacement to serve your development.**

4.1.1. Water main replacement works:

The existing 100mm water main in Louis Street & Vine Street fronting part of your development **does not** comply with the 150mm size required under the Water Supply Code of Australia (Sydney Water Edition) for buildings of 4 to 6 storey.

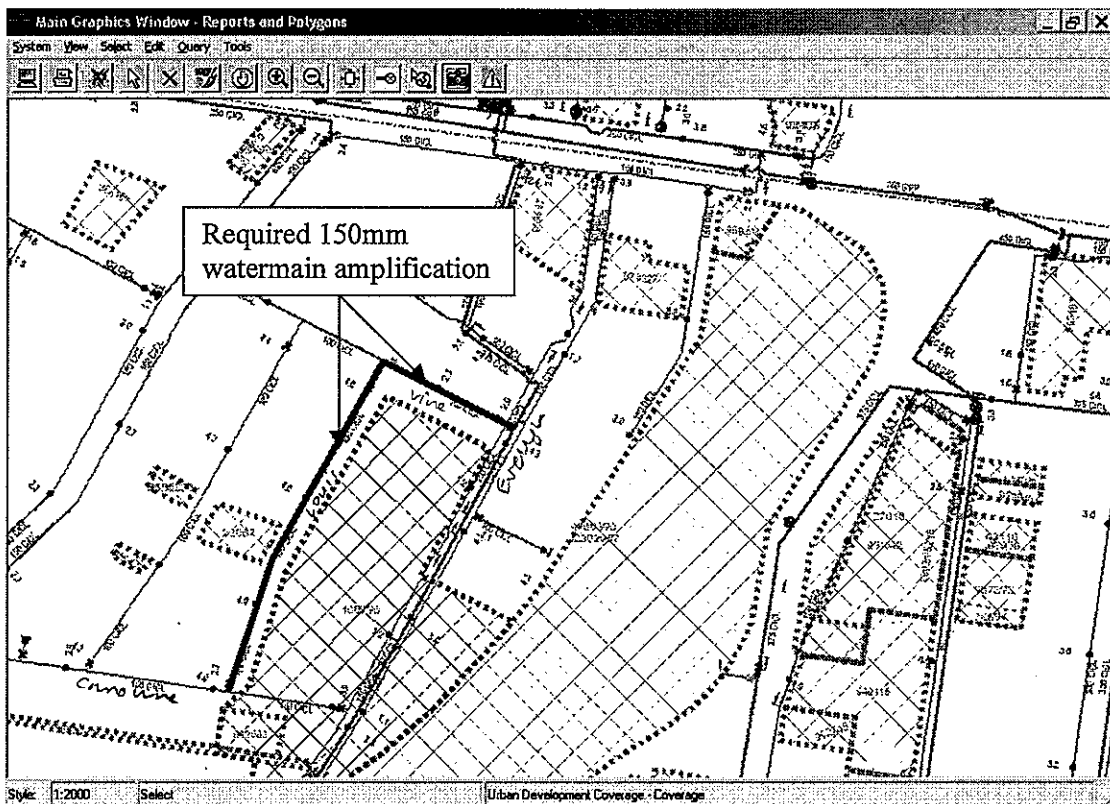
You must construct a new 150mm main in place of the existing 100mm main in Louis Street and Vine Street. The main must be constructed from the 150mm main in Eveleigh Street along Vine Street to Louis Street then along Louis Street to the 150mm main in Caroline Street.

Any existing service connections **must** be reconnected to the new main.

The diagram below provides an indication of these works. The final detail can only be determined after all design aspects are considered. Your coordinator can provide further information.

You will **not** be permitted to connect any part of the proposed development to our system until this work is complete.

At this point you will pay for the full cost of these works.



Please Note: Please see Note 1 in "Other Things You Need To Do" at the end of this letter.

Large Water Service Connection

An existing 150mm CICL water main located in Eveleigh Street and Caroline Street is available to provide part of your development with a domestic supply. The proposed 150mm water main replacement to be constructed in Louis Street and Vine Street **will be** available to provide the remainder of your development with a domestic water supply. The size of your development means that you will need a connection larger than the standard domestic 20 mm size.

To get approval for your connection, you will need to lodge an application with a Quick Check Agent or at a Sydney Water Customer Centre. You, or your hydraulic consultant, may need to supply the following:

- A plan of the hydraulic layout;
- A list of all the fixtures/fittings within the property;
- A copy of the fireflow pressure inquiry issued by Sydney Water;
- A pump application form (if a pump is required);
- All pump details (if a pump is required).

You will have to pay an application fee.

Sydney Water does **not** consider whether a water main is adequate for fire fighting purposes for your development. We cannot guarantee that this water supply will meet your Council's fire fighting requirements. The Council and your hydraulic consultant can help.

Please Note: The existing capacity of the water system is low and as a result any moderate demand increase would cause the pressure to drop to a level that is unacceptable to Sydney Water. Sydney Water recommends that the water connections for the development as per the submitted plan be carried out as follows:

- The Health and Fitness Gym along with the (3) residential unit blocks that front Eveleigh Street to connect to the proposed 150mm water main replacement in Vine Street (when constructed).
- The Elders Spiritual Centre along with the (3) residential unit blocks that front Louis Street to connect to the proposed 150mm water main replacement in Louis Street (when constructed).
- The Art Gallery and Commercial units that front Eveleigh Street to connect to the existing 150mm CICL water main located on the eastern side of Eveleigh St (close to the boundary of Lot C No 75 Eveleigh Street).
- The Health and Respite Centre along with the Retail and Office Space to connect to the existing 150mm water main in Caroline Street.

Private Water Services Connection and Metering

To provide domestic water to the total development you will need to connect to the Sydney Water main. This connection must comply with the *National Plumbing and Drainage Code AS 3500* and *NSW Code of Practice for Plumbing and Drainage*. You may have to include isolation valves on either side of the connection(s) to the Sydney Water main.

For example, a single meter on:

- (a) each vertical block of residential units whether subdivided or unsubdivided (e.g. if your development has tower buildings, you must provide a meter for each building off one or more connections to the main);
- (b) each mixed development use type whether subdivided or unsubdivided (e.g. if your mixed development has both a residential and a commercial area, you must provide a meter for each area usually off one connection to the main); and
- (c) each non-residential Strata, Stratum or Torrens (within a Community) Title subdivided lot with a demand for water. You will need a separate private water service for each lot.

Note:

Where a number of non-residential units are not subdivided, separate services and metering to each unit is not required as Sydney Water will look to the owner for payment of all rates and charges. For example, a shopping centre where all shops remain in one ownership.

To meet the preceding guidelines, either:

- a single connection to the Sydney Water main may be branched; or
- if you would rather separate connections for each use type/area, you can apply to us for that.

A vertical building may be plumbed with a common riser, with either:

- a ring main on each floor with tee off-takes at each unit; **or**
- individual metered services to each unit that will allow housing of individually tagged meters in the one location.

The location of the meter servicing a residential vertical building generally must be in the commercial area after all commercial off-takes.

Sydney Water will supply enough meters to meet the above guidelines but we will not provide any check meters. All meters **must** be placed in an accessible area that should be either:

- no more than one metre inside the property boundary; **or**
- in a location acceptable to Sydney Water, e.g. in the commercial area after all commercial off-takes.

•

Sydney Water does **not** consider the firefighting capability of the mains as part of the Section 73 Certificate Application process. Assessment of firefighting capability is the **responsibility of the applicant** and Sydney Water's own role is limited to indicating modelled pressures at flows nominated by the applicant on a standard pressure enquiry form submitted with the applicable Schedule Fee. The applicant would be **responsible to ensure** that the amplification stated above would adequately meet the firefighting requirements of the development.

Any proposed pump to draw directly from Sydney Water's watermain **must** be assessed by Sydney Water to ensure that its operation will not cause adverse pressure drawdown and surges to nearby customers. The applicant **must** submit a Pump Application Form obtainable from a Sydney Water Business Office, a pressure enquiry result less than 12

months old, and details of the pump and system. It is essential that Sydney Water acceptance of the pump drawoff be sought **before** purchase and installation.

4.2 Sewer

Your development must have a sewer main that is the right size and can be used for connection. That sewer must also have a connection point within your development's boundaries.

Sydney Water has assessed your application and found that:

- The existing 225mm VCP sewer main located in Eveleigh Lane will serve the Residential Units, Elders Spiritual Centre, Health and Respite, Retail and Offices as well as the Health and Fitness Gym in the proposed development.
- The existing 225mm SGW sewer main located within the existing lot boundaries will serve the proposed Art Gallery & Commercial Units in the development.

Please Note: Plans submitted as part of this Feasibility application **do not** clearly indicate the position of future buildings on site for the Art Gallery and Commercial Unit component of the proposed development. Possible deviation work to the existing 225mm SGW sewer main (at developer's cost) **may** be required. This deviation work must be carried out under the Major Works process. Further details will be provided upon lodgement of the Section 73 Certificate Application for the development.

4.3 Ancillary Matters

4.3.1 Asset adjustments

After Sydney Water issues this Feasibility Letter (and more detailed designs are available), Sydney Water may require that its water mains/sewer mains located in the footway/your property need to be adjusted/deviated. If this happens, you will need to do this work as well as the extension we have detailed above at your cost. The work must meet the conditions of this Notice and you will need to complete it **before we can issue the Certificate**. Sydney Water will need to see the completed designs for the work and we will require you to lodge a security. The security will be refunded once the work is completed.

4.3.2 Entry onto neighbouring property

If you need to enter a neighbouring property, you must have the written permission of the relevant property owners and tenants. You must use Sydney Water's **Permission to Enter** form(s) for this. You can get copies of these forms from your Coordinator or the Sydney Water website. Your Coordinator can also negotiate on your behalf. Please make sure that you address all the items on the form(s) including payment of compensation and whether there are other ways of designing and constructing that could avoid or reduce their impacts. You will be responsible for all costs of mediation involved in resolving any disputes. Please allow enough time for entry issues to be resolved.

4.3.3 Costs

When you construct these Major Works (Water) works you will need to pay project management, survey, design and construction costs **directly to your suppliers**. Other costs may include Sydney Water charges for:

- water main shutdown and disinfection;
- connection of new water mains to Sydney Water system(s);
- design and construction audit fees;
- **contract administration on project finalisation**;
- creation or alteration of easements etc.;
- some Customer Contract services (e.g. Customer redress).

Your Coordinator can tell you about these costs.

When you construct these Minor Works (Sewer) works you will need to pay design and construction costs **directly to your suppliers**. Your Coordinator can tell you about other costs including their management fees and Sydney Water's application and inspection fees.

5. Developer Charges

Development Servicing Plan (DSP)	Basis of Calculation	Charge (\$) for Applicable period (29/06/07-30/06/07)	Charge (\$) for Applicable Period (01/07/07-28/06/08) (CPI adjusted)
Potts Hill Gravity Water DSP Area	Residential Development Density >100-130 dwellings per ha band 62 dwellings @ \$NIL = \$NIL Less Credit of \$NIL for previous use Plus Upsizing Development Density >100-130 dwellings per ha band 62 dwellings @ \$61 = \$3782 Less Credit of \$3782 for previous use Plus Commercial- Area 0.21ha @ \$NIL per ha= \$NIL Less Credit of \$ NIL for previous use	\$NIL \$NIL \$NIL	\$TBA \$TBA \$TBA
BOOS Sewer DSP Area	Residential Development Density >100-130 dwellings per ha band 62 dwellings @ \$NIL = \$NIL Less Credit of \$ NIL for previous use Plus Upsizing Development Density >100-130 dwellings per ha band 62 dwellings @ \$41 = \$2542 Less Credit of \$ 2542 for previous use Plus Commercial- Area 0.21ha @ \$NIL per ha= \$NIL Based on Flow rates in paragraph below Less Credit of \$NIL for previous use	\$NIL \$NIL \$NIL	\$TBA \$TBA \$TBA
Reticulation Recovery	See Note below	See Note below	See Note below
DEVELOPER CHARGES TOTAL: <i>[OFFICE USE- Invoice Charges total- Developer \$NIL and Upsizing \$NIL]</i>		\$NIL	\$TBA

Notes:

- After your Coordinator submits the **Section 73 Subdivider/Developer Compliance Certificate** Application, the **Notice** will detail the Developer Charges for your development.

New IPART Determination:

- Sydney Water is nearing completion of its five-yearly review of developer charges in line with the Independent Pricing and Regulatory Tribunal's (IPART) ruling that we do this.

For the latest information on this review you can visit our website www.sydneywater.com.au > Building Developing and Plumbing > Developing Your Land > Review of Developer Charges. The new developer charges will be applied after they are registered with IPART.

- **As a result of the review, some of the charges quoted above may decrease, others may increase and new charges may be introduced.**

After 1 July 2006:

- If the charges have **decreased** you will only have to pay the new lower rate. The lower charges will be applied automatically when you make the payment; or
- If the charges have **increased and/or new charges have been introduced** then Sydney Water will charge you at the old rate plus any inflation (or CPI) increase until 29 June 2008. After that time, Sydney Water has to apply the higher and/or new charges.

Payment of charges and annual CPI adjust from 1 July:

- **You must pay your DSP charge before you will be given permission to connect your development to Sydney Water's water/sewer systems.**
- You have to pay these charges directly to Sydney Water and you must have an invoice. Your Coordinator can arrange the invoice. **Payment is by cash or bank cheque only and you can pay at a Sydney Water Customer Service Centre or by post with your invoice.** You must tell your Coordinator when you have made that payment.
- The charges from 1 July are only shown in column 4 if the CPI figure is known.

After 1 July, if they are NOT shown and the new DSP rates mentioned above have not been registered with IPART, and you want to pay the charges then the charges in column 3 will first need to be adjusted by the CPI figure. This will be done when you get the invoice from your Coordinator and you will need to pay the adjusted amount. (The CPI figure is based on the weighted average of the capital cities CPI for the 12 months to the end of the previous March.)

Also:

- **DSP charges** are a contribution towards the cost of systems (e.g. treatment plants) which serve your development. We have no power to change these costs because they are decided by IPART. If you want more information visit the IPART website www.IPART.nsw.gov.au. If there is a dispute, the cost of arbitration will be shared equally by you and Sydney Water (see *IPART Act 1992, Section 31*).
- **Reticulation Recovery Charges** recover part of the cost of works that have been paid for by Sydney Water or other developers and that benefit your development. This charge is calculated before your points of connection have been determined. If your completed designs show that your development will be connected to other main/s, the Reticulation Recovery charge may be changed and/or you may need to construct other works.

6. Stamping and Approval of your Building Plans

You must have your building plans stamped and approved **before the Certificate can be issued. In any case, building construction work MUST NOT commence until Sydney Water has granted approval.** Approval is needed because construction/building works may affect Sydney Water's assets (e.g. water and sewer mains).

Your Coordinator can tell you about the approval process including:

- Your provision, if required, of a "Services Protection Report" (also known as a "pegout"). This is needed to check whether the building and engineering plans show accurately where Sydney Water's assets are located in relation to your proposed building work. Your Coordinator will then either approve the plans or make requirements to protect those assets before approving the plans;
- Possible requirements;
- Costs; and
- Timeframes.

You can also find information about this process (including technical specifications) if you either:

- visit www.sydneywater.com.au > Building Developing and Plumbing > Building and Renovating. Here you can find Sydney Water's *Guidelines for Building Over/Adjacent to Sydney Water Assets*; or
- call 13 20 92.

Notes:

- **The Certificate will not be issued until the plans have been approved and, if required, Sydney Water's assets are altered or deviated;**
- **You can only remove, deviate or replace any of Sydney Water's pipes using temporary pipework if you have written approval from Sydney Water's Development Operations Branch. You must engage your Coordinator to arrange this approval; and**
- **You must obtain our written approval before you do any work on Sydney Water's systems. Sydney Water will take action to have work stopped on the site if you do not have that approval. We will apply Section 44 of the Sydney Water Act 1994.**

OTHER THINGS YOU NEED TO DO:

Shown below are other things you need to do that are NOT a requirement for the Certificate. They may well be a requirement of Sydney Water in the future because of the impact of your development on our assets. You must read them before you go any further.

(1) Water Mains Not in Dedicated Public Roads

Your WSC has advised as per your instruction that the roads at this development site (Pt Eveleigh Street, Caroline Street and Louis Street) as shown hatched on the submitted plan are to remain public roads. Should this arrangement change you **must** pay to create an easement in favour of Sydney Water. You can get all the easement details from Sydney Water's Group Property, 5th Floor, 115-123 Bathurst Street, Sydney 2000. Ph: (02) 9350 5670 or (02) 9350 5647.

(2) Soffit requirements

Please be aware that floor levels must meet Sydney Water's soffit requirements for property connection and drainage.

(3) Disused Sewerage Service Sealing

Please do not forget that you must pay to disconnect all disused private sewerage services and seal them at the point of connection to a Sydney Water sewer main. This work must meet Sydney Water's standards in the NSW Code of Practice for Plumbing and Drainage (the Code) and be done by a licensed drainer. The licensed drainer must arrange for an inspection of the work by a Sydney Water plumbing and draining inspector. After Sydney Water's inspector has looked at the work, the drainer can issue the Certificate of Compliance. The Code requires this.

(4) Relocation or Removal of Vent Shaft

Should the need arise for the removal or relocation of any of the existing vent shafts as a result of this development you **must** make an application to Sydney Water for the assessment of the proposed relocation or removal of the vent shaft.

(5) Trade Waste Information

Should this development generate trade wastewater, Sydney Water does not guarantee that it will accept the trade wastewater to its sewerage system. For further information please visit the Sydney Water website at, <http://www.sydneywater.com.au/OurSystemsAndOperations/Tradewaste/> or contact a Trade Waste Customer Service Representative on (02) 9551 4620.

Prospective Purchasers should be made aware of the above situation under the requirements of vendor disclosure.

Backflow Prevention Information

In accordance with Sydney Water's Backflow Prevention Policy, you may be required to install a backflow prevention containment device immediately downstream of each water meter service the property. The device must be installed as a condition of continued use of the water supply. Failure to install and maintain the device may result in disconnection of the water service. A copy of Sydney Water's Backflow Prevention Policy is available on the Sydney Water Website at, <http://www.sydneywater.com.au/BuildingDevelopingandPlumbing/BackflowPrevention>

(6) Possible future costs

The requirements in this Notice relate to your Certificate application only. Sydney Water may be involved with other aspects of your development and there may be other fees or requirements. These include:

- construction/building plan stamping fees;
- plumbing and drainage inspection costs;
- the installation of backflow prevention devices;
- trade waste requirements;
- large water connections; and
- council fire fighting requirements. (It will help you to know what the fire fighting requirements are for your development as soon as possible. Your hydraulic consultant can help you here.)

No warranties or assurances can be given about the suitability of this document or any of its provisions for any specific transaction. It does not constitute an approval from Sydney Water and to the extent that it is able, Sydney Water limits its liability to the reissue of this Letter or the return of your application fee. You should rely on your own independent professional advice.

END

Appendix B

Sydney Water Pressure Inquiry

Postal Address:

P.O. Box 53
NSW 1235

Pressure Inquiry No : **4299**
Contact Person : Robert Wickham
Contact No : (02) 93506973
Fax No : (02) 93504564

Date : 6 September, 2007

Tahmina Smyth
21 Hincks St
Kingsford N.S.W. **2032**
Attention : **Tahmina**

Your Pressure Inquiry Dated : **6/09/07**

Property Address: **98 - 102 Eveleigh St, Redfern 2016**

The expected maximum and minimum pressures available in the water main given below relate to modelled existing demand conditions, either with or without extra flows for emergency firefighting, and are not to be construed as availability for normal domestic supply for any proposed development.

ASSUMED CONNECTION DETAILS

Street Name	Caroline	Side of Street	North
Nearest Cross Street	Eveleigh	Distance & Direction from Nearest Cross Street	10 m West

Approximate Ground Level (AHD): **27 metres**
Nominal Size of Water Main (DN): **150 mm**

EXPECTED WATER MAIN PRESSURES AT CONNECTION POINT

NORMAL SUPPLY CONDITIONS		
1. Maximum Pressure	48	metre head
Minimum Pressure	15	metre head

WITH PROPERTY FIRE PREVENTION SYSTEM DEMANDS	Flow (L/s)	Minimum Pressure (m head)
Fire Hose Reel Installations (Normally two hose reels simultaneously)	0.66	15
2 & 3. Fire Hydrant / Sprinkler Installations (Minimum pressures are based on the design pressure expected to be maintained for 95% of the time)	10	15
	20	13
	30	11
	40	7
	N/A	N/A
	N/A	N/A
	N/A	N/A
Maximum Permissible Flow	N/A	N/A
4 & 5. Fire Installations based on peak demand. (Minimum pressures are based on the design pressure expected to be maintained with flows combined with peak demand in the water main.)	10	14
	20	12
	30	9
	40	6
	N/A	N/A
	N/A	N/A
	N/A	N/A
Maximum Permissible Flow	45	4

(Please refer to reverse side for NOTES)


Robert Wickham
Senior Planner
Asset Planning

General Notes

This report is provided on the understanding that (i) the applicant has fully and correctly supplied the information necessary to produce and deliver the report and (ii) the following information is to be read and understood in conjunction with the results provided.

1. Under its Act and Operating Licence, Sydney Water is not required to design the water supply specifically for fire fighting. The applicant is therefore required to ensure that the actual performance of a fire fighting system, drawing water from the supply, satisfies the fire fighting requirements.
2. Due to short-term unavoidable operational incidents, such as mainbreaks, the regular supply and pressure may not be available all of the time.
3. To improve supply and/or water quality in the water supply system, limited areas are occasionally removed from the primary water supply zone and put onto another zone for short periods or even indefinitely. This could affect the supply pressures and flows given in this letter. This ongoing possibility of supply zone changes etc, means that the validity of this report is limited to one (1) year from the date of issue. It is the property owner's responsibility to periodically reassess the capability of the hydraulic systems of the building to determine whether they continue to meet their original design requirements.
4. Sydney Water will provide a pressure report to applicants regardless of whether there is or will be an approved connection. Apparent suitable pressures are not in any way an indication that a connection would be approved without developer funded improvements to the water supply system. These improvements are implemented under the Sydney Water 'Urban Development Process'.
5. Pumps that are to be directly connected to the water supply require approval of both the pump and the connection. Applications are lodged through Sydney Water Business Centres and agencies. Where possible, on-site recycling tanks are recommended for pump testing to reduce water waste and allow higher pump test rates.
6. Periodic testing of boosted fire fighting installations is a requirement of the Australian Standards. To avoid the risk of a possible 'breach' of the Operating Licence, flows generated during testing of fire fighting installations are to be limited so that the pressure in Sydney Water's system is not reduced below 15 metres. Pumps that can cause a breach of the Operating Licence anywhere in the supply zone during testing will not be approved. This requirement should be carefully considered for installed pumps that can be tested to 150% of rated flow.

Notes on Models

1. Calibrated computer models are used to simulate maximum demand conditions experienced in each supply zone. Results have not been determined by customised field measurement and testing at the particular location of the application.
2. Regular updates of the models are conducted to account for issues such as urban consolidation, demand management or zone change.
3. Demand factors are selected to suit the type of fire-fighting installation. Factor 1 indicates pressures due to system demands as required under Australian Standards for fire hydrant installations. Factor 2 indicates pressures due to peak system demands.
4. When fire-fighting flows are included in the report, they are added to the applicable demand factor at the nominated location during a customised model run for a single fire. If adjacent properties become involved with a coincident fire, the pressures quoted may be substantially reduced.
5. Modelling of the requested fire fighting flows may indicate that local system capacity is exceeded and that negative pressures may occur in the supply system. Due to the risk of water contamination and the endangering of public health, Sydney Water reserves the right to refuse or limit the amount of flow requested in the report and, as a consequence, limit the size of connection and/or pump.
6. The pressures indicated by the modelling, at the specified location, are provided without consideration of pressure losses due to the connection method to Sydney Water's mains.
7. Modern pipes have quality assured, factory applied, concrete lining. Some older pipes are, however, designated CICLIS (cast iron concrete lined in-situ). In this situation, results are obtained using conservative modelling techniques to account for the uncertain quality of the lining. However, it is recommended that the applicant obtain verification of any results by field-testing. Appropriate notification to Sydney Water by the accredited service provider shall be given before testing is undertaken (conditions may apply). Sydney Water can provide technical support on a "charge-out basis" if required.