Development information form: Water/Wastewater network planning summary assessment

Information to be completed by Developer/ Engineering Consultant

Development consideration

Query status	☐ Pre-purchase enquiry	☐ Engineering Plan approval
	☐ Pre-application enquiry	☐ Enquiry to support Plan Change application
	☐ Resource Consent application	

Query submission date	DD / MM / YYYY

Address *(include suburb)*	

Current land use	☐ Residential (single family dwellings)	☐ Commercial
	☐ Residential (multi-unit dwellings)	☐ Industrial
	☐ Residential (multi-storey apartment blocks)	☐ Other (please specify)

Proposed land use	☐ Residential (single family dwellings)	☐ Commercial
	☐ Residential (multi-unit dwellings)	☐ Industrial
	☐ Residential (multi-storey apartment blocks)	☐ Other (please specify)

Unitary plan zoning *(Refer Auckland Unitary Plan)*	

Total development site area (m²/ hectares) (i.e. Land area for residential developments)	

Total development floor area (m²) (i.e. Include all levels of multi-storey apartments and commercial developments)	

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Number of proposed residential dwellings	Include type and number of bedrooms for residential dwellings:	1 bed	Quantity:	
E.g. 12- storey residential apartment building with 4 units per storey is 48 residential households.		2 bed	Quantity:	
		3 bed	Quantity:	
(Typically consent or include ultimate if development is to be staged and consented at a future date)		4 bed	Quantity:	
		5+bed	Quantity:	

Attach layout plan	Plan must clearly show proposed development site and include:
Send as an attachment along with this completed form to: **developments@water.co.nz**	• Aerial photograph with elevation contours (Note 1) • Road names • Boundary of development Preferred point of connection to existing water supply and wastewater asset.

Note: (1) Watercare's GIS Viewer for Asset Data Query and Land Development/ Subdivision can be used to display aerial photography and land contour information.

Information to be completed by Developer/ Engineering Consultant
(This section should not be duplicated if both water and wastewater is applied. Refer to Chapter 5 of the CoP.)
Refer to the Auckland Code of Practice for Land Development and Subdivision chapter 6: Water, when completing this form:

Waster supply development assessment

Design consideration	Description	Comments
Average and Peak Residential Demand (L/s)	Average Demand Design Flow = Peak Demand Design Flow =	*Show calculations based on Watercare CoP.*
Average and Peak Non-Residential Demand (L/s)	Average Demand Design Flow = Peak Demand Design Flow =	*Show calculations based on Watercare CoP.*
Non-Residential Demand typical daily consumption profile / trend		*E.g. 24 hr operation / 10 hr (9am – 5pm) / Filling on-site storage at certain frequency.*
Fire- fighting classification required by the proposed site		*Refer to New Zealand Standard SNZ PAS 4509:2008.*
Hydrant flow test results	☐ Yes ☐ No	*Attach hydrant flow test layout plan and results showing test date & time; location of hydrants tested and pressure logged; static pressure; flow; residual pressure.*
Sprinkler system in building?	☐ Yes ☐ No	*Sprinkler design should consider Watercare Level of Service: minimum pressure at 200kPa and minimum flow at 25 l/min. The building owner shall conduct periodic review of sprinkler design.*

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Further water supply comments:	

(This section should not be duplicated if both water and wastewater is applied. Refer to Chapter 6 of the CoP.)
Refer to the Auckland Code of Practice for Land Development and Subdivision chapter 5: Wastewater, when completing this form:

Wastewater development assessment

Design consideration		Description	Comments
Existing site design flows - pre-development scenario *(If site is currently undeveloped, write 0.00 L/s in the design flows for this section)*	Residential Design Flows (L/s)	Self-Cleansing Design Flow = Peak Design Flow =	*Show calculations based on Watercare CoP.* *Ultimate development:* *Ultimate development is where further development may / can / will occur upstream / or within the development site currently under consideration.*
	Non-Residential Design Flows (L/s)	Self-Cleansing Design Flow = Peak Design Flow =	*If relevant Ultimate Peak Design Flow is to be calculated and will include number of potential units/ lot.*
Proposed development site design flows - post-development scenario	Residential Design Flows (L/s)	Self-Cleansing Design Flow = Peak Design Flow = And if relevant Ultimate Peak Design Flow =	*For further guidance on whether this application needs to consider Ultimate development, refer CoP Sections:* *5.3.2 Structure Plan* *5.3.3 Future development* *5.3.4 System Design*
	Non-Residential Design Flows (L/s)	Self-Cleansing Design Flow = Peak Design Flow =	
	Non-Residential Discharge profile / trend (i.e. Operations)		*E.g. 24 hr operation / 10 hr (9am – 5pm) / Other (Please specify).*
Change in site flows	Net difference between post-development and pre-development site design flows (L/s)	Net Change in Self-Cleansing Design Flow = Net Change in Peak Design Flow =	

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New assets required for development		*If applicable please provide supporting calculations and indicative design parameters (i.e. pump station and rising main or storage.*

Existing network infrastructure capacity assessment

A sewer capacity check is to be carried out if the 'Net Change in Peak Design Flow' calculated above shows a net increase of greater than 1.0 L/sec.

Notes:

1. *At Watercare's discretion, a Sewer Capacity Check may be required even if the net increase in site flow is < 1.0 L/sec.*
2. *The Level 1 Sewer Capacity Check as described in the CoP is to be undertaken in the first instance, unless specifically advised by Watercare. The Level 1 Capacity Check is intended to help identify applications that may require more accurate/detailed design calculations and/or identify whether data held on the existing network is sufficient to enable an accurate assessment of capacity.*

Type of Sewer Capacity Check undertaken:

☐ Level 1

☐ Level 2

☐ Level 3

(check as appropriate)

Did the Existing WW Capacity Assessment Design Flow exceed the pipe-full capacity for any pipes within the Existing Network Assessment Extents?

On pipes where asset data (i.e. gradient and diameter) is known:

☐ Yes   ☐ No

On pipes where asset data was assumed:

☐ Yes   ☐ No

See Watercare's GIS Viewer for Asset Data Query and Land Development/Subdivision to assist with obtaining data required for the capacity assessment.

In addition to the assessment findings summary requested here, other required existing network capacity assessment key steps/ deliverables include:

1. *Network Assessment Extents to be identified as described in the CoP. A map is to be provided showing the network assessment extent.*

2. *Catchment Boundaries for the assessment is to be determined. Catchment Boundary data (where available) can be viewed in the Watercare GIS Viewer. Where not available, the developer and their engineers will be required to produce catchment boundaries. A map is to be submitted depicting the catchment extents.*

3. *Existing WW Capacity Assessment Design Flow is to be calculated as described in the CoP. The flows are to be tabulated for each pipe-reach within the Network Assessment Extent. A pipe-reach will typically be regarded as the section of network between points where significant tributaries enter the network.*

4. *Pipe Capacity Vs. Design Flow Check is to be carried out; a table detailing the calculated full pipe capacity compared to the 'Existing WW Capacity Assessment Design Flow' is to be provided. Pipes with missing asset data are to have the missing data assumed as described in the CoP.*

5. *Pipe Full Capacity Exceedance - Pipes where the 'Existing WW Capacity Assessment Design Flow' exceeds the pipe full capacity are to be identified both in the tabular data, and on a map of the Network Assessment Extent. Pipes with assumed data are to be identified separately to those with known data. If applicable please provide supporting calculations and indicative design parameters (i.e. pump station and rising main or storage.*

Further wastewater comments:		