



06 April 2018

David Rhode
DEVELOPMENT ENGINEER
Auckland Council
35 Graham Street
Auckland 1011

Dear David,

Council Resource Consent number (PRB50003017)
14 PATTESON AVE
Watercare application number – 72438

Section 1 - Purpose

Watercare has reviewed the application for Resource Consent in relation to Watercare's ability to provide water and wastewater services to the proposed subdivision, and the proposed extension to our networks set out in the application, in particular **Dodd Civil Consultants Ltd's Report: DCC Ref 497/01 Dated on December 2017**.

Subject to the conditions below, we confirm that Watercare is able to provide water and wastewater services to the proposed subdivision, and that the proposed works under the resource consent application will meet our requirements for the vesting of public water supply and wastewater infrastructure.

Section 2 – General conditions

1. Watercare's confirmation in this letter is based on the application for resource consent as at today's date, in particular **Dodd Civil Consultants Ltd's Report: DCC Ref 497/01 Dated on December 2017**. Any amendment to the proposals set out in those documents will require further review and approval from Watercare, and is not covered by this letter.
2. The applicant must produce under the engineering plan approval stage a completed design of the proposed water supply and wastewater infrastructure, including infrastructure to vest in Auckland Council and thereafter in Watercare (**public water supply and wastewater works**), in accordance with the current *Watercare Water and Wastewater Code of Practice for Land Development and Subdivision (Code of Practice)* as well as Watercare's standards for material supply, construction and asset data capture.
3. All public water supply and wastewater works required to service this subdivision/development shall be designed and constructed by the applicant at no cost to Watercare.



4. The public water supply and wastewater works must be demonstrated to comply with Watercare’s requirements in accordance with Watercare’s *Compliance Statement Policy, Part 1 for Land Development and Subdivision Works*.
5. Engineering plan approval must be obtained from Auckland Council for all public water supply and wastewater works before construction begins.
6. All connections to Watercare’s water/wastewater networks shall be made in accordance with Watercare’s connection processes, and must comply with the Code of Practice.

Section 3 – Local conditions

1. There is sufficient capacity in Watercare’s water and wastewater networks at the time of this assessment to accommodate the proposed total of 96 units in an eight storey residential building at this site comprising of 10 Lots with a combined area of 6530m². This assessment is valid for 2 years from the date of this letter, and network upgrades may be required after the 2 year period.]
2. Reassessment for water and wastewater capacity will be required if the construction of this development has not commenced within 2 years of the date of this letter.
3. Proposed water and wastewater connections at the time of this assessment are as follows (see applicant sketch below):
 - a. 200 mm water main along Marau Crescent
 - b. Diverting some of existing public sewer line and create three new wastewater manholes

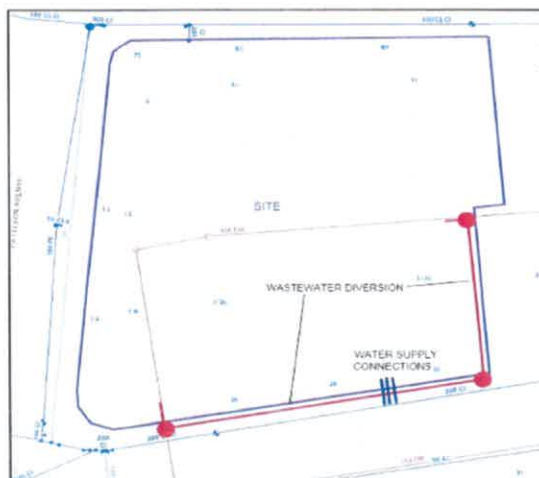
5.0 PROPOSED WORKS

Water Supply

- 1 x DN100 fire sprinkler connection on DN200 main in Marau Crescent
- 1 x DN80 bulk domestic supply connection on DN200 main in Marau Crescent
- 1 x DN60 bulk commercial supply connection on DN200 main in Marau Crescent
- Remove all existing connections

Wastewater

- Divert existing public line around the site
- 2 x DN150 connections



PROPOSED WATER AND WASTEWATER WORKS DIAGRAM



4. WSL's study concludes that the existing 150mm public sewer line, between MH (GIS ID: 514580) and MH (GIS ID: 514581), will very likely present a capacity constraint after adding additional flow as calculated by applicant's report. Therefore, this approval is conditioned on this section being upgraded at applicant's cost as part of this development work.
5. Watercare will review the proposed water and wastewater design after lodgement of the application to the Council for engineering plan approval and accompanying CS1 and CS2 if applicable.
6. All works on existing public wastewater drains and watermains shall be carried out only by a Watercare approved contractor at the applicant's expense.
7. Adequate provision shall be made during earthworks associated with construction to protect any existing public wastewater drains and watermains that traverse the site. Any damage to the drains or watermains that may occur during construction shall be the applicant's responsibility.
8. This letter does not constitute a guarantee from Watercare to provide a fire fighting capability in accordance with Fire and Emergency New Zealand Code of Practice.
9. Water pressure could change in the future. To comply with FW2 fire risk classification, the installation of a sprinkler system and/or booster pump may be required for commercial, industrial high-rise and mixed-use buildings.
10. Watercare approval is required before any individual building /lot is connected to the public water and/or wastewater network. An application for new connection shall be submitted to Watercare in conjunction with the application to Council for building consent.
11. Watercare infrastructure growth charges will apply to this development. Details of the charge are available on the website, watercare.co.nz.



Next step

To proceed with construction the applicant will be required to complete the design and lodge an engineering plan application with Auckland council

Yours faithfully,



James Shao

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www.watercare.co.nz