## Appendix 14: Assessment of Canterbury Land and Water Regional Plan

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## 4.15

In urban areas, the adverse effects on water quality, aquatic ecosystems, existing uses and values of water and public health from the cumulative effects of sewage, wastewater, industrial or trade waste or stormwater discharges are avoided by:
a. all sewage, industrial or trade waste being discharged into a reticulated system, where available; ab. all stormwater being discharged to land or into reticulated system, where a reticulated system is available;

- c. all stormwater being discharged in accordance with a stormwater management plan, where one has been consented;
- d. the implementation of contingency measures to minimise the risk of a discharge from a wastewater reticulation system to surface water in the event of a system failure or overloading of the system beyond its design capacity; and e. any reticulated stormwater or wastewater system installed after 11 August 2012 is designed and

managed to avoid sewage discharge into surface

This is a full urban development

- sewage will be in a reticulated system built to Council specifications.
- Stormwater is reticulated to off-site points of discharge after management through a Stormwater Management System of on-site ponds

Both elements will be subject to ECan consents, and have been assessed in a Servicing Report, and in a Stormwater Assessment. (Appendix 4)

No adverse effects on water quality and values are expected.

## 4.16

following matters:

water.

Any reticulated stormwater system for any urban area is managed in accordance with a stormwater management plan that addresses the

- a. the management of all discharges of stormwater into the stormwater system;
- b. for any reticulated stormwater system established after 11 August 2012, including any extension to any existing reticulated stormwater system, the discharge of stormwater being subject to a land-based or designed treatment system, or wetland treatment prior to any discharge to a lake or river; and
- c. how any discharge of stormwater, treated or untreated, into water or onto land where it may enter water meets or will meet, the water quality outcomes and standards and limits for that waterbody set out in Table 1, Schedules 5 and 8 and Sections 6 to 15, (whichever applies); and
- The management of the discharge of stormwater from sites involving the use, storage or disposal of hazardous substances, and

The management of stormwater has been assessed in a Servicing Report and a specific Stormwater Assessment. (Appendix 9 and Appendix 4 respectively)

There are no hazardous installations on site, nor any hazardous substances being used on site.

The reticulated stormwater system will become part of the Council system and will meet Council standards.

e. Where the discharge is from an existing local authority network, demonstration of a commitment to progressively improve the quality of the discharge to meet condition (c) as soon as practicable but no later than 2025.	
4.17 Stormwater run-off volumes and peak flows are managed so that they do not cause or exacerbate the risk of inundation, erosion or damage to property or infrastructure downstream or risks to human safety.	The stormwater assessment (at <b>Appendix 4</b> ) confirms that the proposed management of stormwater will meet the policy direction; the Stormwater Management System will ensure post-development peak flows match predevelopment levels and intensities.
<ul> <li>4.19 The discharge of contaminants to groundwater from earthworks, excavation, waste collection or disposal sites and contaminated land is avoided or minimised by ensuring that: </li> <li>a. activities are sited, designed and managed to</li> <li>avoid the contamination of groundwater;</li> <li>b. existing or closed landfills and contaminated</li> <li>land are managed and monitored where</li> <li>appropriate to minimise any contamination</li> </ul>	The site will be developed subject to subdivision consent(s) that will impose necessary conditions about earthworks during construction including sediment control plans.
of groundwater; and  c. there is sufficient thickness of undisturbed sediment in the confining layer over the Coastal Confined Aquifer System to prevent the entry of contaminants into the aquifer or an upward hydraulic gradient is present which would prevent aquifer contamination.	
4.96 The consequential effects of seismic activity are recognised and timely and appropriate responses to such activity are facilitated.	A geotechnical assessment assessed the Site as not being at risk from seismic activity and liquefaction.  (Appendix 6)

## **Land and Water Regional Plan definition**

'Reticulated stormwater system' means a network of pipes, swales, drains, kerbs and channels owned or operated by a network utility operator that collects stormwater within areas used or proposed to be used for urban-residential, commercial or industrial purposes and conveys that stormwater to any device, wetland, retention or detention pond or infiltration basin for the treatment of stormwater, prior to a discharge to land, groundwater or surface water. It excludes any drainage system that has been constructed for the primary purpose of collection, conveyance or discharge of drainage water.