

WATER DEMAND MANAGEMENT DECLARATION OF COMPLIANCE



In 2009 Council required all new homes built in urban areas to provide an alternative source of water for flushing toilets and outdoor irrigation. This form is to be submitted with all applications for a Project Information Memorandum/Building Consent for new or relocated dwellings on land zoned residential.

Address of Project:	
Number of Dwellings:	
Building Consent Number:	(Office Use Only)

1. Water Demand Management Solution

All dwellings subject to this development (new or relocated) will use one of the following water demand management solutions in accordance with the District Plan (please tick one box):

<input type="checkbox"/>	Rainwater storage tanks with a total volume of not less than 10,000 litres, for each house in the development.
<input type="checkbox"/>	Rainwater storage tanks with a total volume of not less than 4,000 litres, for each house in the development, and a complying greywater diversion device.
<input type="checkbox"/>	The application is made with an alternative solution (note that a discretionary resource consent will be required).
<input type="checkbox"/>	The application is made without provision for water demand management (note that a notified resource consent will be required).

2. For All Applications where Water Demand Management Will be Provided

Volume of rainwater storage tanks:

I confirm all the following:

<input type="checkbox"/>	That the rainwater tank volume complies with selected water demand management option and have provided a certificate from the manufacturer demonstrating the tank volume.
<input type="checkbox"/>	That there will be no direct connection from the reticulated water supply to any outside taps.
<input type="checkbox"/>	That there will be a direct connection from the rainwater storage tanks to all internal toilet cisterns and any external taps.
<input type="checkbox"/>	That there will be no direct connection from the reticulated water supply to any toilet cistern.
<input type="checkbox"/>	I understand that the toby or manifold may have to be replaced with a dual feed manifold at my expense. <i>A dual feed manifold has one supply for the house and a separate restricted supply to connect to the rainwater tank.</i>
<input type="checkbox"/>	I have completed Kāpiti Coast District Council Form 159: "Water Supply Connection / Alteration Application Form". <i>An applicant is required to submit this form to Kāpiti Coast District Council Water and Wastewater Team if a new water connection or alteration of existing connection is required.</i>

3. For Applications Where a Greywater Diversion Device is to be Installed

Size of Disposal Field:

(Note that this needs to be marked on the site plan or the plumbing and drainage plan submitted to Council).

I confirm all the following:

- | | |
|--------------------------|---|
| <input type="checkbox"/> | That greywater will be collected from all laundry and bathroom drains (excluding toilets) and channelled to a greywater diversion device for use in outdoor irrigation. |
| <input type="checkbox"/> | The greywater worksheet is attached and confirms that greywater diversion is suitable on the lot. |
| <input type="checkbox"/> | That the device will be installed by an approved installer and that a certificate demonstrating this will be available to Council on request after installation. |

4. Signatures

Name:

Signed:

Date:

GREYWATER IRRIGATION CALCULATION SHEET

This sheet will help determine whether there is sufficient area available to reuse greywater for irrigation. Remember that greywater should be diverted to sewer and only used for garden irrigation when needed.

Greywater irrigation will not be suitable for your proposed dwelling, if it is in an area where:

- soils are too slow draining,
- ground is too steep,
- there are high water tables less than a meter below the surface, or within 20m of a drain, wetland, pond, river or other water body

If greywater is unsuitable, you will need to install a minimum of 10,000 litres of rainwater storage.

The following will help establish if your site is suitable for greywater irrigation.

Greywater Diversion Device:	
Model:	
Irrigation method	

1. Is the area being irrigated at least 20m away from a water body?	<input type="checkbox"/> Yes	<input type="checkbox"/> No
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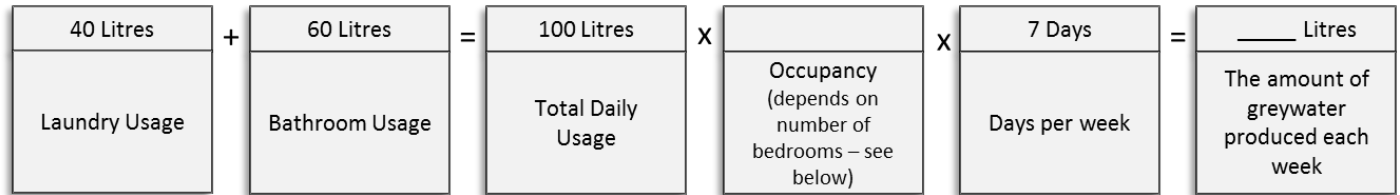
2. Area available for irrigation.	_____m ²
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Calculate the area you have available for outdoor irrigation allowing for set back distances below:

Set Back Features	Setback Distance (metres)
Property boundaries, pedestrian paths, and driveways.	0.5
Footings of buildings.	1.5
Retaining wall footing.	1.0
In ground swimming pool surrounds.	1.0
In ground potable water tank.	6.0
Bores intended for human consumption.	50.0

3. Greywater Volume

Calculate how much water your home could generate. As the number of people will vary over the life of the house, use the following calculation to estimate greywater volume.



Bedroom numbers in home	Occupancy for design purposes and calculation
1	2
2	4
3	6
4	8
5	10
6	12

Litres produced each week	÷	Soil irrigation rate*	=	area needed for irrigation
_____ litres/week		_____ mm/day		_____ m ²

Match the soil on your site to the soil irrigation rates below.

Soil Category	Soil Texture	Irrigation rate * for greywater	Indicative drainage class
1	Gravel and sands – structure-less	35 mm/week	Rapid draining
2	Coarse to medium sand	35 mm/week	Free draining
3	Medium-fine and loamy sand (dune sands)	35 mm/week	Good drainage
4	Sandy loam, loam and silt loam	20 mm/week	Moderately well drained
5	Sandy clay loam, clay loams, silt clay loam, peaty loam	20 mm/week	Moderate to slow drainage
6	Sandy clay, non-swelling clay and silty clay, peat	15 mm/week	Slowly draining
7	Swelling clay, grey clay, hardpan	15 mm/day	Poorly or non-drained

4. Does area available = area needed?	<input type="checkbox"/> Yes	<input type="checkbox"/> No
<p>If the area available is greater than the area needed, the proposed application area is sufficient to cope with the volume of greywater that is likely to be generated and approval may be granted if all other conditions are met.</p> <p>Enter the area available on the compliance sheet and mark out on the <u>site plan</u> or <u>plumbing and drainage plan</u> the area to be irrigated with greywater.</p>		

<p>5. There isn't enough area for greywater irrigation</p> <p>If the area available is less than the area needed, the proposed application area is insufficient to cope with the volume of greywater that is likely to be generated.</p> <p>If you want greywater irrigation but the area available does not appear to be sufficient, you can:</p> <ul style="list-style-type: none">• select a system that limits greywater to be suitable to your site conditions;• apply for an alternative solution that will only use greywater from the bathroom or laundry;• use a suitably qualified person to design a greywater system suited to your site (please attach their report with the compliance sheet).
