

VARIATION 2 – ADDITIONAL HOUSING CAPACITY SUBMISSION FORM 5



CLAUSE 6 OF FIRST SCHEDULE, RESOURCE MANAGEMENT ACT 1991

This is a submission on Variation 2 to the Second Generation Dunedin City District Plan (2GP). Your submission must be lodged with the Dunedin City Council by midnight on 4 March 2021. All parts of the form must be completed.

Privacy

Please note that submissions are public. Your name, organisation, contact details and submission will be included in papers that are available to the media and the public, including publication on the DCC website, and will be used for processes associated with Variation 2. This information may also be used for statistical and reporting purposes. If you would like a copy of the personal information we hold about you, or to have the information corrected, please contact us at dcc@dcc.govt.nz or 03 477 4000.

Make your submission

Online: www.dunedin.govt.nz/2GP-variation-2 Email: districtplansubmissions@dcc.	
Post to: Submission on Variation 2, Dunedin City Council, PO Box 5045, Dunedin 905	54
Deliver to: Customer Services Agency, Dunedin City Council, Ground Floor, 50 The O	ctagon, Dunedin
Submitter details (You must supply a postal and/or electronic address for	
First name: Margaret Charles & Marguer	rita Lazar
Last name:	
Organisation (if applicable):	
Contact person/agent (if different to submitter): Kurt Bowen, Paterson Pit	ts Group
Postal address for service: PO Box 5933	
Suburb:	
City/town: Dunedin	Postcode: 9058
Email address: kurt.bowen@ppgroup.co.nz	
Trade competition	
Please note: If you are a person who could gain an advantage in trade competition throsubmission may be limited by clause 6(4), Schedule 1 of the Resource Management Act	• •
I could gain an advantage in trade competition through this submission: Yes Yes	No

Submission

Yes No

Submissions on Variation 2 can only be made on the provisions or mapping which are proposed to change, or alternatives that are clearly within the scope of the 'purpose of the proposals', as stated in the Section 32 report. Submissions on other aspects of the 2GP are not allowed as part of this process.

If you answered yes, you could gain an advantage in trade competition through this submission, please select an answer:

My submission relates to an effect that I am directly affected by and that:

b. does not relate to trade competition or the effects of trade competition.

You must indicate which parts of the variation your submission relates to. You can do this by either:

a. adversely affects the environment; and

- making a submission on the Variation Change ID (in which case we will treat your submission as applying to all changes related to that change topic or alternatives within the scope of the purpose of that proposal); or
- · on specific provisions that are being amended.



The specific aspects of Variation 2 that my submission relates to are:		
Variation 2 change ID (please see accompanying Variation 2 – Summary of Changes document or find www.dunedin.govt.nz/2GP-variation-2)	the list on	
Refer attached document.		
For example: D2		
Provision name and number, or address and map layer name (where submitting on a specific proposed	d amendment):	
Refer attached document.		
For example: Rule 15.5.2 Density or zoning of 123 street name.		
My submission seeks the following decision from the Council: (Please give precise details, such as what retain or remove, or suggest amended wording.)	you would like us	to
Accept the change		
Accept the change with amendments outlined below		
Reject the change		
If the change is not rejected, amend as outlined below		
Refer attached document.		
Reasons for my views (you may attach supporting documents):		
If you wish to make multiple submissions, you can use the submission table on page 3 or attach additional pages.		
Refer attached document.		
Hearings		
Do you wish to speak in support of your submission at a hearing: See No		
If others make a similar submission, would you consider presenting a joint case at a hearing: No		
	1 1	
Signature:	Date: 3/03/2	21

Multiple Submissions Table

Variation 2 change ID or provision name and number or address and map layer name

Decision Sought

- a. Accept the change
- b. Accept the change with amendments outlined
- c. Reject the change
 d. If the change is not rejected,
 amend as outlined

Reasons for my views

Variation 2 change ID:

Relating to the properties at 41 Glenelg Street, 34 Bradford Street and 5 Ronay Street.

Relating to the proposed NDMA provisions.

Relating to all residential zone density policy changes.

Relating to service connections and transportation changes.

Provision name and number, or address and map layer name:

Relating to the properties at 41 Glenelg Street, 34 Bradford Street and 5 Ronay Street.

Relating to the proposed NDMA provisions.

Relating to all residential zone density policy changes.

Relating to service connections and transportation changes.

My submission seeks the following decision from the Council:

We seek to include the rezoning of the above properties from their current RTZ zone to a General Residential 1 zone. We consider this request to be within the scope of Variation 2, as summarised by the appended scope statement.

We seek rejection of the proposed NDMA provisions.

We support the proposed residential density policy provisions, including reduction of the minimum site size in the GR1 zone, the new provisions for duplex developments and the new ancillary residential unit provisions.

We seek rejection of certain provisions related to service connections and transportation, as discussed below.

Regarding the proposed NDMA region, our views are as follows.

NMDA/Infrastructure Provisions General

The submitter has a number of concerns relating to NDMA overlay regions and infrastructure controls. In general, these relate to the following-

(i) Inadequate (incomplete) research has been undertaken by Council's 3-Water departments, particularly in regard to stormwater modelling, resulting in a knowledge gap. It appears that this is being resolved through a precautionary

- approach that could result in infrastructure being installed where it may not be required.
- (ii) The imposition of these elements of Variation 2 will have a very real detrimental effect on the feasibility, and therefore the rate, of residential development. This is directly contrary to the purpose of Variation 2.
- (iii) The National Policy Statement on Urban Development 2020 requires the provision of adequate infrastructure by the Local Authority to enable residential capacity. Passing the obligation to provide this infrastructure onto landowners and developers (except where the infrastructure is related to new greenfields land) is not appropriate. One of the largest bottlenecks to housing development is the cost of infrastructure, and accordingly if Council wishes to realise a greater level of housing then the City must be prepared to invest in the necessary supporting infrastructure (passing the costs on will not resolve the bottleneck).
- (iv) Council has a development contributions policy and a rating program that generates increased income as new residential sites are created. Both of these income sources provide funding that is intended to be spent on City infrastructure (development contributions for network upgrades, rating income for maintenance). While income from these sources is being collected by Council it is inappropriate (and a form of double-dipping) for network infrastructure upgrades to be imposed as conditions of development.
- (v) Council has access to funding from national government for infrastructure improvement projects. The Otago Daily Times has recorded (05/08/2020; https://www.odt.co.nz/news/dunedin/water-reform-south-could-get-more-60m) that Dunedin City is able to secure \$7.92 million directly (plus a share of the wider \$20.6million regional allocation) for water reforms. It is the submitter's view that this funding source, and others like that this might be available, should be Council's priority method for resolving the existing infrastructure network constraints.
- (vi) The proposed infrastructure provisions are overly complex, without adequate definition and will be problematic to implement (particularly where NDMA regions contain multiple land ownerships). These provisions are likely to delay, if not obstruct altogether, many residential developments from being advanced.
- (vii) Rule 15.4.X. appears to seek to remove the permitted baseline assessment, as provided for in the RMA, from Council's consideration of stormwater matters. This is a fundamentally flawed position, which seeks to construct a rule in a lower-level regulation to override that of a higher-level regulation. Recent consent decisions, made independently and in accordance with the RMA, have clearly found that the permitted baseline assessment is an appropriate test in respect of stormwater management (in the same way as this applies to the consideration of other effects). This proposed Rule must be rejected.

Proposed Adjustments to Variation 2-

(i) Reject the proposed infrastructure controls from all new development and subdivision activities, until such time as Council's knowledge in respect of the areas of constraint is complete.

- (ii) Reject the proposed infrastructure controls from all new development and subdivision activities, except where the infrastructure relates to new greenfields land (and i above is satisfied).
- (iii) Reject the proposed infrastructure controls from all new greenfields land regions, until the stormwater management plan provisions can be amended into a workable arrangement.
- (iv) Reject Rule 15.4.X.

NDMA/Infrastructure on existing residential land

A number of sites within the City's existing Residential zones have been proposed to have a new NDMA overlay and/or new infrastructure controls applied. These sites do not enjoy any specific rezoning advantage (e.g. GR1 to GR2), although they might benefit from an increase in residential yield as a of the proposed changes to the density policy provisions.

The submission site may become GR1 zone land if the submitter's request above is approved.

The submitter feels that it is both inappropriate and unreasonable to impose NDMA/infrastructure controls onto any property in which the zoning format is not proposed to be changed to enable a greater yield of development. Reasons for this view include (in addition to the general discussion above)-

- (i) There remains a question over the quality and completeness of Council's infrastructure modelling, with particular regard to the stormwater network. It appears that Council's 3-Waters department has taken a precautionary approach to infrastructure, whereby it is simply easier to require all new developments to meet the new infrastructure standards, despite some of these areas not necessarily being subject to an infrastructure constraint. If this is the case then this will lead to the installation of infrastructure, proposed to occur at the cost of the landowner/developer, that serves no purpose. This is inappropriate and contrary to the outcomes sought by Variation 2. If Council's infrastructure modelling knowledge is incomplete, it is essential that this is resolved before any new infrastructure controls are implemented.
- (ii) The imposition of new development controls, which will inevitably result in additional development costs, where there is little anticipated return in respect of site yield, is directly contrary to the purpose of Variation 2 (which is ultimately to enable development so that houses can be built).
- (iii) The NPS-UD requires Local Authorities to provide the infrastructure necessary to support residential capacity. If there are elements of the public infrastructure network that cannot support development of the City's existing residential land, then the Local Authority is required to upgrade these elements. This is not an obligation that can appropriately be passed on to landowners/developers.
- (iv) The land enjoys a particular set of existing use rights at present. The zoning is not proposed to change, so there will be no beneficial offsetting for the landowner of the negative impact of the new infrastructure requirements.

- (i) PREFERRED: Reject the NDMA overlay and all proposed infrastructure controls from the submission land.
- (ii) ALTERNATIVE A: Insert a provision that exempts any development and/or subdivision within the submission land from the requirements of the NDMA/infrastructure control provisions while the density of the development and/or subdivision is consistent with the current zone density expectations (e.g. 500m² in the GR1 Zone). This would maintain the status quo until such time as a developer proposed a density of residential activity that exceeds the current zone allowance.
- (iii) ALTERNATIVE B: Restructure the NDMA/infrastructure control provisions into a form that recognises that there are existing-use-rights associated with the land and re-design the new controls in such a manner as to minimise development cost increases (for instance, specify nominally-sized rooftop water detention tanks on each developed site these can be cost effective if implemented by way of a standardised method).
- (iv) ALTERNATIVE C: Rezone the submission land to a residential zone that provides for a greater development density than the current zone, which might then justify the application of an NDMA overlay and/or a greater degree of infrastructure control. Then re-design the stormwater management plan provisions to result in a workable arrangement.

NDMA/Infrastructure on existing RTZ land

A number of sites within the City's existing Residential Transition (RTZ) zones have been proposed to have a new NDMA overlay and/or have new infrastructure controls applied. These sites do not enjoy any specific rezoning advantage (i.e. they are not being rezoned to residential as a result of Variation 2), although might (eventually) benefit from an increase in residential yield as a result of the proposed changes to the density policy provisions.

The submission site is presently subject to the RTZ overlay.

The submitter feels that it is both inappropriate and unreasonable to impose new NDMA/infrastructure controls onto any property in which the zoning format is not proposed to be changed to enable a greater yield of development sites (a number of infrastructure controls already apply within the existing RTZ provisions, and these are not proposed to be removed). Reasons for this view include (in addition to the discussion above)-

(i) There remains a question over the quality and completeness of Council's infrastructure modelling, with particular regard to the stormwater network. It appears that Council's 3-Waters department has taken a precautionary approach to infrastructure, whereby it is simply easier to require all new developments to meet the new infrastructure standards, despite some of these areas not necessarily being subject to an infrastructure constraint. If this is the case then this will lead to the installation of infrastructure, proposed to occur at the cost of the landowner/developer, that serves no purpose. This is inappropriate and contrary to the outcomes sought by Variation 2. If Council's infrastructure modelling knowledge is incomplete, it is essential that this is resolved before any new infrastructure controls are implemented.

- (ii) The imposition of new development controls, which will inevitably result in additional development costs, where there is little anticipated return in respect of site yield, is directly contrary to the purpose of Variation 2 (which is ultimately to enable development so that houses can be built).
- (iii) The NPS-UD requires Local Authorities to provide the infrastructure necessary to support residential capacity. If there are elements of the public infrastructure network that cannot support development of the City's existing residential land, then the Local Authority is required to upgrade these elements. This is not an obligation that can appropriately be passed on to landowners/developers.
- (iv) The land enjoys a particular set of existing use rights at present (being residential activity subject to the existing RTZ provisions). The zoning is not proposed to change, so there will be no beneficial offsetting for the landowner of the negative impact of the new infrastructure requirements.
- (v) The existing RTZ infrastructure provisions are seen as adequate to control residential development within the RTZ regions.

Proposed Adjustments to Variation 2-

- (i) PREFERRED: Reject the NDMA overlay and all proposed infrastructure controls from the submission land.
- (ii) ALTERNATIVE A: Insert a provision that exempts any development and/or subdivision within the submission land from the requirements of the NDMA/infrastructure control provisions while the density of the development and/or subdivision is consistent with the RTZ zone density expectations (e.g. 500m² in the RTZ-to-GR1 zone regions). This would maintain the status quo until such time as a developer proposed a density of residential activity that exceeds the current zone allowance.
- (iii) ALTERNATIVE B: Restructure the NDMA/infrastructure control provisions into a form that recognises that there are existing-use-rights associated with the land and re-design the new controls in such a manner as to minimise development cost increases (for instance, specify nominally-sized rooftop water detention tanks on each developed site these can be cost effective if implemented by way of a standardised method).
- (iv) ALTERNATIVE C: Rezone the submission land to the intended RTZ residential zone and then re-design the stormwater management plan provisions to result in a workable arrangement.

NDMA/Infrastructure requirements on general subdivision

There are a number of proposed Policies and Rules that, if implemented, will trigger the need for network infrastructure upgrades. Several of these are discussed below-

<u>Policy 9.2.1.1.X</u> requires new infrastructure to be installed ahead of development in areas that are outside the wastewater serviced area. The submitter would like to clarify if the zone density applicable to these areas has been used to calculate residential capacity for the City? If so, then the responsibility for the provision of adequate network infrastructure may rightly fall on Council's shoulders as directed by the NPS-UD 2020. Further to this, where Council accepts that it has an obligation to upgrade infrastructure to satisfy the

requirements of the NPS-UD, how is this envisaged to occur? How quickly can landowners anticipate that Council would undertake these upgrades following a notice of development intent?

<u>Policy 9.2.1.1A</u> is somewhat similar to the above, however this imposes wastewater requirements on land within wastewater service areas. Again, if the network infrastructure is not adequate to support development in accordance with the zone density, the submitter considers that it is Council's responsibility to resolve this prior to development occurring. Perhaps a form of notice by a landowner to Council of a development intent could trigger a Council upgrade program? Presumably these upgrade works would then need to be undertaken relatively promptly.

<u>Policy 9.2.1.BB</u> requires specified new development mapped areas to provide communal wastewater detention systems. The submitter is agreeable to this provided that the specified areas have been correctly assessed by Council in respect of infrastructure requirements.

<u>Policy 9.2.1.Z</u> requires development that contravenes the impermeable surfaces rules to demonstrate that the effects of stormwater will be no more than minor. The submitter seeks to clarify that each of the activities referenced (i.e. multi-unit development, supported living facilities, subdivision, and development) only trigger the policy when they propose to breach the impermeable surfaces rules. The policy appears to read this way, however an alternative interpretation might be that the policy applies to multi-unit development, supported living facilities, and subdivision all in general, and only to development that breaches the impermeable surfaces rules. If the former interpretation is correct, then the submitter is supportive of this policy. If the latter is correct, then the submitter seeks a correction of this policy to the former of the two interpretations noted.

Further to the above, the submitter suggests that the two parts of proposed Policy 9.2.1.Z consider limiting the assessment of effects to a nominated distance from the point of development discharge. Perhaps to a distance 2.0km downstream of the activity site. Any assessment of stormwater impacts further downstream generally becomes particularly difficult to assess with any reliability. Also, ultimately all stormwater flows will end up in a river, lake, harbour or Ocean, which if the second part of the policy is read literally, would always trigger the need for an assessment under this part. The submitter does not believe that this is the actual intent of the policy.

<u>Policy 9.2.1.Y</u> requires all subdivision in a new NDMA area to install an on-site stormwater management system. The submitter has several concerns about this policy. Primarily, there are some fundamental differences between the types of NDMA areas (as described in detail above). Complex on-site stormwater management systems should only be required where i) the land in question is a new greenfields site, and ii) Council's stormwater modelling can clearly show that development of the site (without stormwater controls) is likely to lead to unacceptable adverse effects downstream. Where proposed NDMA regions occur that don't meet the above criteria, the requirement for stormwater infrastructure should be removed, or at the very least simplified to a standardised 'roof detention tank per site' approach, which is an approach that a number of other Local Authorities have adopted.

<u>Policy 9.2.1.X</u> is unclear in what it is trying to achieve. This is probably unnecessary and could be deleted.

<u>Policy 9.2.1.AA</u> is sensible. The submitter supports this policy. However, it is worth noting that where significant infrastructure costs are likely to be incurred by one landowner, which then benefit adjacent landowners, there may very well be a reluctance for one party to start the development process. It is notoriously difficult for agreement on infrastructure costs to be reached between two or more private developers. This situation can lead to land not being developed at a rate that the City would like to see. The submitter suggests that Council consider whether a development contributions clawback arrangement could be an effective method of enabling development where the first developer would otherwise be subject to a large proportion of the infrastructure costs.

Policy 9.2.1.3 is sensible. The submitter supports this policy.

Policy 9.2.1.4 requires future subdivision and development activities to ensure that the City's water supply system has sufficient capacity to service the development (either in its present form or by way of an upgrade to be installed ahead of development). The submitter would like to clarify if the zone density applicable to these areas has been used to calculate residential capacity for the City? If so, then the responsibility for the provision of adequate network infrastructure may rightly fall on Council's shoulders as directed by the NPS-UD 2020. Further to this, where Council accepts that it has an obligation to upgrade infrastructure to satisfy the requirements of the NPS-UD, how is this envisaged to occur? How quickly can landowners anticipate that Council would undertake these upgrades following a notice of development intent?

<u>Policy 9.2.1.4A</u> is somewhat similar to the above, however this imposes water supply requirements on land that is outside the public water supply areas. Again, if the network infrastructure is not adequate to support development in accordance with the zone density, the submitter considers that it is Council's responsibility to resolve this prior to development occurring. Perhaps a form of notice by a landowner to Council of a development intent could trigger a Council upgrade program? Presumably these upgrade works would then need to be undertaken relatively promptly.

Rules 9.5.3, 9.6.2, 9.7.4, 12.X, 15.11.3, 15.11.4, 15.11.5 and 15.12.3 (including all sub-rules) contain the assessment matters relating to subdivision and development activities. The policies discussed above are implemented through these assessment matter rules. The submitter seeks amendment of all of these rules, in particular where new infrastructure requirements are proposed, to address and resolve the concerns noted above. Please note that this submission is concerned with all proposed infrastructure requirements contained in the notified version of Variation 2, regardless of whether they are specifically mentioned above. These will be further discussed with the submitter's pre-hearing evidence, although it is the submitters hope that many of the concerns at hand can be resolved through engagement with Council staff through the upcoming months.

Rule 9.9 is a special case. This rule sets out the special information requirements for stormwater management plans. The submitter supports in principle the inclusion of guidance around stormwater management plans in the district plan as the design of these plans has been the subject of much discussion between consultants and Council staff over the last 12 or 18 months. The submitter is, however, concerned that certain elements of the rule are unreasonable, incorrect and/or insufficiently defined. Particular concerns relate to the following elements-

- (i) Rule 9.9.X.1 is sensible, provided that this is adjusted to recognise any changes that result from policy considerations in respect of the NDMA categories described earlier.
- (ii) Rule 9.9.X.2 should be adjusted so that Part 1 is removed, Part 2 is restricted to only certain categories of NDMA's, Part 4 is removed, and Part 5 is removed. Essentially, a stormwater management plan in an existing residential zone should only be required where the impermeable surfaces rules are breached. This relates to the permitted baseline assessment that has been recently established by an independent commissioner hearing (January 2021).
- (iii) Rule 9.9.X.3.1 should be adjusted to read "be prepared by a suitably qualified and experienced engineer, surveyor or other land development professional".
- (iv) Rule 9.9.X.3.2 is sensible. The submitter supports this.
- (v) Rule 9.9.X.3.3 is problematic. In reality this will be difficult to achieve as agreement between adjoining landowners is often overly complicated. Inevitably there is one owner (the developer) who is seeking consent from the other owners, with those other owners having a vested interest to negotiate a position that better suits their own future activities. The rule might be a good idea in principle, but in reality, this will simply obstruct (and possibly fatally prevent) development from being advanced. There needs to be an additional component to this rule that provides either-
 - The ability for the initial developer to proceed with a stormwater solution on his/her land only, in the event that other owners do not agree to an overall NDMA solution, or
 - b. The ability for Council to i) compulsorily acquire land for infrastructure from other landowners, and ii) implement a cost-sharing arrangement between the NDMA landowners using specially designed development contribution charges (allowing clawback of infrastructure costs by Council).

This rule also needs to be adjusted to be applicable to only those NDMA areas that comprise greenfields sites and which have well-understood stormwater constraints.

- (vi) Rule 9.9.X.3.4 requires some additional refinement, particularly in regard to the definition of terms. We suggest
 - a. Part 1 should be adjusted to require the calculation of pre-development flows at a 10% AEP for the critical storm duration of the development site (i.e. not the critical storm duration of the broader catchment). The critical storm duration of the development site will be equal to the time of concentration (ToC) across the development site. Where the stormwater management plan relates to a greenfields NDMA site, then the critical storm duration of the broader catchment should also be assessed.
 - b. Part 2 should be adjusted in the same way as the Part 1 suggestions above.

- c. Part 3 can have the last 3 words (i.e. '...or water levels') removed.
- d. Part 5 should be amended to insert the words '...or a reasonable alternative if justification is provided...' after the words '... in the underlying zone...'.

 Also, the final sentence referring to a NDMA area can be removed.
- e. Part 9 and 11 require significantly more information. Please provide details of the types/methods of treatment anticipated and the expected degree of success that each type/method can provide. Several examples would be immensely helpful here.
- (vii) Rule 9.9.Y.1 should be amended to refer to only those NDMA areas that do not have existing residential connection rights (at the development density presently allowed).
- (viii) Rule 9.9.Y.2 should be amended to replace the words 'chartered engineer' with 'suitably qualified and experienced engineer or other land development professional'.
- (ix) Rule 9.9.Y.3 should be adjusted in the same way as noted above for stormwater assessments, in a manner that enables development if the various owners of the NDMA cannot reach an agreement.

The submitter also seeks consideration of an alternative stormwater management method. Attached are several standardised approaches that are employed by other Local Authority's within New Zealand. These work on an average approach, where all development (subdivision and housing) is required to install a detention tank for stormwater. The advantage of this approach is that it-

- 1. Removes expensive assessment costs.
- 2. Removes development delays.
- 3. Means that all houses are able to contribute to stormwater improvements (not just on new subdivision).
- 4. Builds consistency into the building consent and resource consent processes.
- 5. Supports the use of detention tanks in a manner that is relatively cheap and easy to implement.
- 6. Allows for larger tanks where there are larger levels of impermeable surfaces.
- 7. Establishes an approach that can be easily understood by many players in the housing market, including architects, builders, plumbers, landowners, etc.

The submitter believes that the application of a suitable chart-based method for stormwater detention, on all but the new greenfields development sites, will provide a significantly more effective stormwater management approach than the case-by-case assessment approach promoted by Variation 2. It is considered that the proposed alternative option will not diminish development rates (in fact the certainty provided by a chart-based approach will likely have a positive impact on development rates), whereas the method notified in Variation 2 is anticipated to add a notable cost and delay to new developments and will therefore negatively impact the feasibility and speed of house construction.

<u>Rule 15.4.X</u> appears to seek to remove the permitted baseline assessment, as provided for in the RMA, from Council's consideration of stormwater matters. This is a fundamentally flawed position, which seeks to construct a rule in a lower-level regulation to override that of a higher-level regulation. Recent consent decisions, made independently and in accordance with the RMA, have clearly found that the permitted baseline assessment is an

appropriate test in respect of stormwater management (in the same way as this applies to the consideration of other effects). This proposed Rule must be rejected.

It is commonly understood that the development of land for housing in Dunedin City is significantly constrained by poor quality and under-sized network infrastructure. It is critical that Council understand and appreciate that passing the responsibility for upgrading this infrastructure onto landowners and developers through the proposed infrastructure provisions in Variation 2 (except in regard to the new greensfields sites) will not address this problem – it will instead make residential development less likely to occur. If Council is truly wanting more houses to be built, Council must resolve the infrastructure constraints that exist in its network through an enhanced investment program. In this regard, the two principal elements of Variation 2 (increased residential capacity and additional infrastructure requirements) are in many ways competing with each other.

Proposed Adjustments to Variation 2-

(i) Amendments as required to give effect to the discussion matters above.

Regarding all of the residential density policy provisions, including reduction of the GR1 Zone minimum site size to 400m², the provision for duplex construction and the new provisions for ancillary residential units, the submitter supports these proposed provisions.

Regarding miscellaneous provisions relating to service connections and transportation, we submit the following.

Variation 2 proposes new rules relating to service connections on subdivision sites. These provisions ae contained in Rule 9.3.7, and particularly Rules 9.3.7.X, 9.3.7.Y, 9.3.7.Z and 9.3.7.AA.

It is the opinion of the submitter that there is insufficient allowance within these service connection provisions for viable alternative supply options. Several examples include:

- Telecommunications using 'off-the-grid' sources (cell phone, radio link, satellite link, etc.).
- Electricity using 'off-the-grid' sources (wind, solar, generator, etc.).
- Water supply by rooftop collection in areas that cannot be efficiently serviced from a reticulated source.
- Foul drainage via septic tank (or secondary-treatment septic tank) in areas that cannot be efficiently serviced from a reticulated sewage system.
- Stormwater to ground in areas where there are subsurface gravel layers that can accommodate site discharge flows.

There are likely to be a number of other forms of alternative solution as well, which are just as capable of providing acceptable servicing outcomes.

The submitter seeks the inclusion within Rule 9.3.7 of suitable alternative servicing arrangements, where these are recognised as being acceptable (certainly all of the examples above, plus other forms of servicing that may be appropriate). Some of these options may require the applicant to demonstrate that the alternative solution will achieve a particular

standard. Furthermore, it should be recognised that a number of these alternative solutions are better implemented at the time of building (rather than the time of subdivision). Accordingly, the inclusion of a provision that recognises the use of a consent notice to require installation of service connections as part of the building process is also sought by the submitter.

Variation 2 proposes several new transportation policies and rule adjustments. The submitter is concerned about Policy 6.2.3.Y and Rules 6.11.2.7 and 6.11.2.8. In particular, the submitter feels that there is no justification by Council to impose the expectation that any private access serving more than 12 sites should be designed and vested as a legal road. It is the submitter's consideration that private access serving an unlimited number of sites is entirely reasonable, and that a legal road should only be required when the other assessment matters trigger this (e.g. for reasons of network connectivity and/or safe and efficient operation of the transport network).

There are likely to be many situations in which it will be difficult for Council to impose these proposed rules, a common example being infill subdivision that occurs along existing private accessways (a situation that exists within the submission land). The allowance in the rules for '...unless the location or design of the subdivision makes this inappropriate' is not satisfactorily as there is no guidance as to how Council's discretion in this regard will be applied.

If a developer chooses to construct a private road, and purchasers choose to buy sites on that basis, this would seem like a perfectly reasonable outcome (and with no risk to Council).

It may be that Council's reasoning for an inclusion of a 12-site maximum is that there is a perception that the formation width requirement for 7+ sites (Rule 6.6.3.9.a.ii requires a minimum formed width of 3.5m) is inadequate. The submitter agrees with this perception, and proposes that a better solution to this, rather than requiring accessways that serve more than 12 sites to become legal road, would be to insert a new driveway width standard for 13+ sites (another row under Rule 6.6.3.9.a) that requires the formed width of the accessway to be a minimum of 5.5m. A further rule could be added to ensure that the accessway is fitted with a turning circle that can accommodate a rubbish collection vehicle (with easements to be granted to DCC for rubbish collection purposes). The legal width for the new accessway category could be set marginally wider, say 6.5m, than the required formed width (1.0m wider, consistent with the existing accessway width categories). This suggested alternative is expected to meet the outcomes sought by Council in the proposed Variation 2 changes while also minimising the volume of land set aside for roading purposes, thereby achieving a greater capacity for new residential housing.

Reasons for my views:

We believe that the residential capacity interests of the City can be well served by the changes described above. Further supporting information will be supplied to Council prior to the Variation 2 hearings, although we would also welcome the opportunity to engage with

Council planners to discuss this submission ahead of the hearings should this be considered potentially fruitful.								

Submitter's Position in respect of 'Scope'.

A principal purpose of Variation 2 is to enable Dunedin City Council to meet its residential capacity obligations under the National Policy Statement on Urban Development 2020. It has been recognised by the Council that the existing housing capacity, as provided for by the 2GP, is currently insufficient. Variation 2 has been designed to address the identified shortfall through mechanisms such as new residential zone areas and adjustments to the density rules within existing residential zones.

Variation 2 has employed a 'selective' assessment method to narrow down the extent to which new residential zone areas have been identified. In support of this, the Council has stated:

Proposed changes have been informed by initial work on the next Future Development Strategy (Spatial Plan), which will look at how and where the city will grow over the next 30 years. A small number of areas were selected for more detailed evaluation as part of Variation 2. Other sites were suggested by landowners or Dunedin residents as part of the Planning for Housing survey in 2019 and key stakeholder consultation. That feedback aimed to help shape how and where the city should grow and has helped develop the proposed changes in Variation 2. All sites were evaluated against criteria including (but not limited to) natural hazards, the availability of 3 Waters infrastructure and access to services and public transport. The process involved ongoing discussions with key stakeholders and, for greenfield sites, landowners whose sites were evaluated as part of Variation 2.¹

Variation 2 is not a full review of the 2GP's residential section's rule framework or zoning across the city. A more comprehensive updated plan for the next 30 years will be developed separately as part of the next Spatial Plan, which will be jointly prepared with the Otago Regional Council (ORC). 2

The 2GP is still in the appeal phase and re-opening large parts of the plan to a new variation will slow the progress towards making the plan fully operative. Until the 2GP is operative, parts of the 2006 District Plan continue to apply along with the 2GP provisions, which increases the complexity and costs of processing consents. The changes proposed in Variation 2 are therefore as focussed as possible, and scope has been deliberately limited to avoid re-consideration of a wide range of provisions.³

Whilst the submitter applauds Council desire for the Variation 2 process to be implemented as quickly as possible, it is considered that the selective identification of assessment properties cannot be relied upon as a technique to identify the complete package of parcels of land that best achieves the principal objective of Variation 2. In this regard, the section 32 report, which assesses only the parcels that have been selectively identified, is considered to be incomplete.

The Resource Management Act 1991 (RMA) sets out the requirements for preparation of a section 32 report (underlined text is author's emphasis)-

¹ https://www.dunedin.govt.nz/ data/assets/pdf file/0007/806182/Variation-2-General-Public-Fact-Sheet.pdf

² https://www.dunedin.govt.nz/council/district-plan/2nd-generation-district-plan/plan-change-dis-2021-1-variation-2#doc

https://www.dunedin.govt.nz/_data/assets/pdf_file/0007/806182/Variation-2-General-Public-Fact-Sheet.pdf

- s32 Requirements for preparing and publishing evaluation reports
- (1) An evaluation report required under this Act must—
 - (a) examine the extent to which the objectives of the proposal being evaluated are the most appropriate way to achieve the purpose of this Act; and
 - (b) examine whether the provisions in the proposal are the most appropriate way to achieve the objectives by—
 - (i) <u>identifying other reasonably practicable options for achieving the</u> objectives; and
 - (ii) assessing the efficiency and effectiveness of the provisions in achieving the objectives; and
 - (iii) summarising the reasons for deciding on the provisions; and
 - (c) contain a level of detail that corresponds to the scale and significance of the environmental, economic, social, and cultural effects that are anticipated from the implementation of the proposal.

The overarching objective of Variation 2 is to enable Dunedin City to meet its statutory residential capacity obligations. Section 32(1)(a) RMA requires that this objective is met in the manner that is most appropriate to achieve the purpose of the Act. Section 32(1)(b)(i) RMA requires the s32 evaluation to consider all reasonably practicable options for achieving the objective.

The purpose of the RMA is (underlined text is author's emphasis)-

- 5 Purpose
 - (1) The purpose of this Act is to promote the <u>sustainable management of</u> natural and physical resources.
 - (2) In this Act, sustainable management means managing the use, development, and protection of natural and physical resources in a way, or at a rate, which enables people and communities to provide for their social, economic, and cultural well-being and for their health and safety while—
 - (a) <u>sustaining the potential of natural and physical resources</u> (excluding minerals) to meet the reasonably foreseeable needs of future generations; and
 - (b) safeguarding the life-supporting capacity of air, water, soil, and ecosystems; and
 - (c) <u>avoiding, remedying, or mitigating any adverse effects</u> of activities on the environment.

It is submitted that the Council's decision to limit the scope of Variation 2 to only a selection of nominated land parcels presents a risk that the most appropriate method of achieving the objective of the variation may not be reached. It is clear that there are many parcels of land within the City have not had their potential for residential rezoning evaluated. Accordingly, it is the submitter's view that the s32 report completed in support of Variation 2 is currently incomplete and that the report may not be consistent with the expectations of the RMA, with particular regard to the consideration of 'other reasonably practicable options' as required by s32(1)(b)(i).

This matter is further complicated by the National Policy Statement on Urban Development 2020 (NPS-UD), which requires (underlined text is author's emphasis)-

- 3.2 Sufficient development capacity for housing
- (1) Every tier 1, 2, and 3 local authority must provide at least sufficient development capacity in its region or district to meet expected demand for housing:
 - (a) in existing and new urban areas; and
 - (b) for both standalone dwellings and attached dwellings; and
 - (c) in the short term, medium term, and long term.
- (2) In order to be sufficient to meet expected demand for housing, the development capacity must be:
 - (a) plan-enabled (see clause 3.4(1)); and
 - (b) <u>infrastructure-ready</u> (see clause 3.4(3)); and
 - (c) <u>feasible and reasonably expected to be realised</u> (see clause 3.26); and
 - (d) for tier 1 and 2 local authorities only, meet the expected demand plus the appropriate competitiveness margin (see clause 3.22)

The expectation of the NPS-UD is that residential capacity is achieved in areas that are 'infrastructure-ready' and 'feasible and reasonably expected to be realised'. The RMA requires identification of the most appropriate options. It is not unreasonable to consider that there might well be any number of parcels of land within the City that have not been evaluated through the Variation 2 process, which may also present an appropriate option to satisfy the residential capacity obligations.

Until a further s32 evaluation process is undertaken (as per s32AA RMA), with a view to assessing the suitability of the submission land to contribute to the City's residential capacity, it is impossible to have confidence that the purpose of the RMA will be best served by Variation 2.

The submitter concludes the following-

- 1. The property referred to in the associated submission may offer an appropriate method to the City to increase its residential capacity.
- 2. The s32 evaluation undertaken as part of Variation 2 to-date is incomplete as this evaluation has not considered the submission property. A further s32 evaluation is necessary in respect of the submission property.
- 3. The submission cannot be considered 'out-of-scope' of Variation 2 as it seeks to provide for an outcome that achieves the City's obligations under the NPS-UD in a manner that is consistent with the purpose of the RMA.

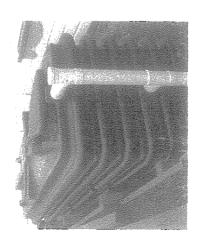
THREE WATERS MANAGEMENT PRACTICE NOTE

TO CUITABLE ROLS OF DEFORTION SSTOR

This practice note. has been developed to provide general information on the minimum design and slzing requirements for Roinwater Reuse and Defention Systems which are used in residential and non-residential applications for on-site stormwater namagement. Refer to Section 2 for residential applications and Section 3 for non-residential applications.

1.1 What is a Rainwater Reuse and Detention System?

Rainwater Retise and Derention Tanks are tanks which combine the benefits from both rainwater harvesting and detention into a single tank. Figure & shows a schematic of a Rainwater Retise and Detention System. These tanks are applicable in an urban environment where there is a public water supply available for potable use and to supplement the tank water. The harvested water from these tanks should be used primarily for toilet flushing and baundry supply but can also be used for other non-potable purposes such as garden watering and car washing.



Rainwater Reuse and Detention Tanks comprise two sections, above and below a small diameter orifice part way up the side of the tank. The volume below the orifice is used to store rainfall collected from roof areas for non-potable use within the building, while the volume above the orifice is used for detention and the orifice allows the slow-release of roof run-off during and after rainfall events.

Hamilton City Council recommends a minimum volume of \$,800 littres or 5m² for the reuse portion of the tank, unless the roof area is less than 60m² and the building is single level, in this case Ramilton City Council recommends a 3,000 litre or 3m²

1.2 When should Rainwater Reuse and Detention Tanks be used?

Rainwater Reuse and Detention fants may be used as an on-site stomwater mitigation method in accordance with council's brainage Disposal Elerancity?

The requirement for onsite stormwater flow attenuation (detention) will depend on whether or not there is an approved downstream detention device, such as a stormwater pond or wedand, designed to accept unoff from the site. If onsite flow attenuation is required, detention can only be considered if onsite soladage has been found not to be appropriate for the particular site conditions. Site suitability for soladage will need to be assessed for every new building consent application. Detention is one of the options that can be used to manage stormwater if soakage is not an option.

1.3 Advantages of Rainwater Reuse and Detention Tanks

Rainwater Retise and Detention Conky provide the Sollowing

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- Reduces the ask of potable water nonethe public water supply system.
- Redness the armual volume of water which rows off from voin site.
- Reduces peak froms from soonn events up to a 1d year
- saptures the first flush or readf and thereby improves worst quofity

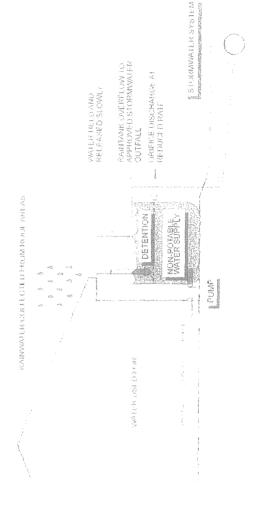


Figure 1: Schematic of a Rainwater Reuse and Detention System

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Three Waters Management Practice Notes are Hamilton City Council controlled documents and will be subject to ongoing review. The fatest version can be downloaded from the Hamilton City Council website: http://www.lamilton.govt.nr/our-council/.publiste: http://www.lamilton.govt.nr/our-council/.publistes.sepx.

MCC 05: Ramwater Reine and Detention Systems

Refer Practice Hota - HCC Oft Overview for details of the dramage bierarchy.

2.1. Winimum Design Requirements

The Rainwater Reuse and Detention Tank must meet the tollowing minumum design

- rainwater reuse volume of 5,000L (Six*) is recommended unless the roof area is less than 60m2 and the building is single level then 3,000L (3m2) is Fank volume: The tank should be sized according to the root area draming to the tank and the design procedure in Section 2.5 below. A minimum recommended. If water reuse is plumbed to the laundry as well as to the tollet(s) and irrigation, the reuse volume can be halved where a Reuse and Detention Tank is being used, so 2,500L (2.5m³) unless the roof area is less than 60m² and the building is single level then 1,509L (1.5m²). Retention for reuse is generally not suitable for roof areas less than 50m°.
- the required detention volume will depend on the area that requires mitigation and the proportion of the impervious area that is able to be drained via the tank
- Onsite residential detention systems within Hamilton City shall be designed to manage peak flows from the 10 year ARI rainfall event and discharge it at 30% of the pre-development 2 year ARI rate.
- Catchment: The whole roof area should be connected where practicable. Only roof water should be drained to the rain tank
- Offset mitigation: It is possible for a tank to provide mitigation for some area (up to 15%) that does not drain to it. This is called offset mitigation and results in a slightly larger rank and slightly smaller orifice to compensate for the area not draining to the rank.
- Tank use: The tank is connected via a pump to all tollets, irrigation and ideally to the laundry, and may be connected to the outside taps.
- Backup water supply: A backup water supply must be provided from the potable water supply for those occasions when the tank approaches empty.
- Backflow prevention; Some form of backflow prevention is required to ensure provision is made to protect the potable water supply from cross confamination. Council's preferred option is to plumb the mains water supply into the top of the tank with a registered air gap (minimum 25mm). Alternatively a testable backflow device (testable double check valve) can be provided at the water mains side of the reuse tank.
- Contamination: The lank may be above or below ground (above ground is preferable) but if it is below ground then it must be clearly identified as contaminated". Water from non-roof areas must be prevented from getting into the reuse tank, including the provision of backflow prevention methods

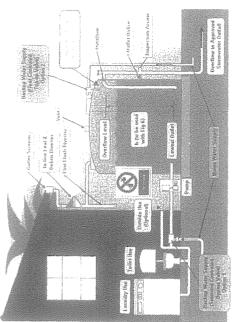
to ensure no stormwarer surcharges back into the rause tank from the puritic

outdoor garden taps but it also applies for indoor taps such as the faundry dearly marked. All taps connected to the non-potable water source must be dearly marked as not for drinking (see symbol). These taps are generally Pipeworkt Pipes supplying non-potable water must be coloured (filed) and cold water tap. The taps should also be colour coded with either a lifac ring or Mac powder coated.

- Access: Suitable access must be provided to the tank, the pump, and any screens or filters and the for maintenance and regular inspections. focation of these items must be clearly identified.
- Orifice location: A small diameter orifice should be positioned part way up the tank to provide the detention part of the tank. The location of the orifice is to be determined using the methodology outlined in Section 2.5
- Dead storage zone: A dead storage volume is required at the bottom of the tank for sediment build-up. The lowest outlet for reuse purposes should be located a minimum of 100mm above the bottom of the tank to allow for sediment accumulation.
- It is advisable to provide some or all of the following:
- Some form of leaf guards on your gutters.
 - insect screens.
- A first flush diverter which diverts the most contaminated' coof runoff,
- A tank vacuum type overflow which helps to remove sediment build up from the bottom of your tank.

 - A filter at the pump.
- An inlet system which prevents sediment from being stirred up when the tank is nearly empty.
- Figures 2 and 3 show typical components for above ground and below ground Rainwater Reuse and Detention Systems.

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igure 2: Above ground Rainwater Reuse and Detention System - typical components

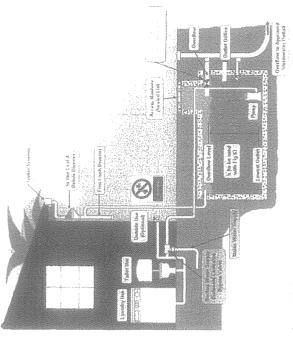


Figure 3: Belaw ground Rainwater Reuse and Detention System - typical components





Do not drink

Detention System tank sizing and configuration Procedure for calculating Rainwater Reuse and

This procedure should be used for residential applications. It refers to the three areas of the tank, the temporary volume which buffers storm flows, the permanent reuse volume and the dead storage volume of the tank.

This procedure should be used for residential applications that comply with the following conditions:

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- Maximum impervious area to be mitigated of 600m²
- Offset mitigation area no greater than 15% of the total impervious area draining to the detention rand.
- Only roof water should be drained to the Rainwater Reuse and Detention
- Pre-development site assumed to be undeveloped (greenfields) with a runoff coefficient C = 0.30.
- Outlet of tank located above the level of the stormwater reticulation into which it will discharge, with no back water effects.

Should site conditions or design requirements not comply with the above conditions, specific design of the detention system will be required. Refer to HCC06 Detention fank Practice Note for the general methodology to be followed in these circumstances.

Step 1: Determine the total roof area of the building (A.,)

Measure the total roof area which shall be connected to the tank, including the eaves. Note it is advantageous to maximise the roof area connected to the tank as this increases the water captured for re-use and also minimises the over-attenuation required impervious bypassing the tant.

Step 2: Check Offset Witigation limit (Ai)

Measure the areas of concrete driveway, pathways and other impervious areas (Ai) and compare to the total roof area connected to the tant. If Al/Ar > 15%, specific design incorporating onsite detention of runoff from the additional impervious surfaces is required.

Step 3: Determine the Oetention Volume (DV)

Based on the values measured above the required Detention Volume should be sized according to the chart in Figure 4.

Step 4: Determine the Reuse Volume (RV)

is less than 60m" and single level then the Reuse Volume is 3,000L or 3m". Or if laundry is plumbed for water reuse as well as (oilet(s) and inigation, then you can The minimum Reuse Volume for Residential Zones is 5,0001, or 5m² unless the dwelling halve the minimum Reuse Volume to 2,500t or 2.5m² unless the dwelling is less than 60m² and single level then it is 1,500L or 1.5m².

As shown on Figure 5 the Minimum Total Tank Volume (Vt) is the sum of the Detention volume (DV) determined in Step 3 and the Reuse Volume (RV) determined in Step 4.

Step 5: Determine the Minimum Total Tank Volume (Vt)

W = DV + RV

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step 7: Determine the tank configuration

Using the chosen tank dimensions - Total Height (H) and Tank Plan Area (PA), and the equired tank volumes - Detention Volume (DV), Reuse Volume (RV) from Steps 3 and determine the required configuration for the Rainwater Reuse and Detention Tant. Refer to figure 5 for an illustration of the tank configuration. Dead Storage Height h_3 = Minimum 100mm above the base of the tank for sediment accumulation

Reuse Height hz = Reuse Volume (RV) / Tank Plan Area (PA)

Detention Height $h_1 = D$ etention Volume (DV) / Tank Plan Area



figure 4: Oxtention Volume selection chart

Step 6: Select the desired tank make and model

Select the desired tank make and model using the total tank volume (Vt) determined in Slep 5 and other desired criteria. Once the tank make and model has been chosen, obtain the tank dimensions from the manufacturer's specifications.

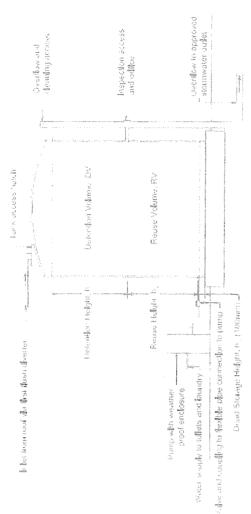


Figure 5: Schematic of Rainwater Reuse and Detention tank coafiguration



Step 8: Determine the size of the orifice

The size of the oritice is related to the root area and the adopted betention Beight, in, and should be designed as per the chart in Figure 6 below. For maintenance teasons thoughours designed to a product to a product to a product the solution of the configuration of the configura

the minimum size of the orifice should be 10mm.

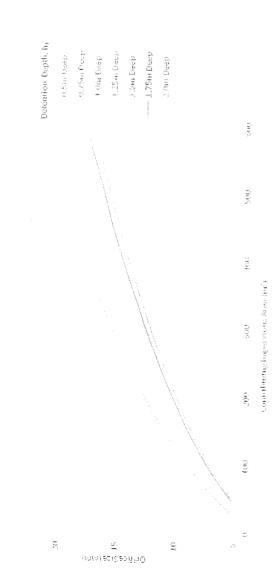


Figure 6: Orifice Staing Chart

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This section provides general information on the minimum design and string requirements for Rainwater Reuse and Desention System tanks which are used in non-residential applications for on-site stormwater management.

3.1 Reuse Volume for non-residential applications

Refer to Practice Note HCCQ2 Rainwater Reuss System (Rain lanks) for details on sizing the Reuse Volume for Non-Residential Applications.

3.2 Detention Volume for non-residential applications

Refer to Practice Note HCC86 Detention Tanks for details on sizing the Detention Volume for Non-Residential Applications.

2. SUMMARY OF PLANNING REQUIREMENTS

Your rainwater reuse and detention system must be consented either as part of the whole site's building consent or as a separate building consent.

For details on building consents please contact Hamilton City Council's Building Control Unit phone (07) 838 6699. The detention component of your rainwater reuse and detention system is required to be designed by a suitably qualified person based on the guidance provided in this practice note, councif's infrastructure Technical Specification and other base practice guidance. As-faid plans, authorised by a registered drain layer, are required for your rainwater reuse and detention system and shall be provided to council.

