



**96 Beach Haven Road**  
**Catchment Analysis - 150mm diameter line**

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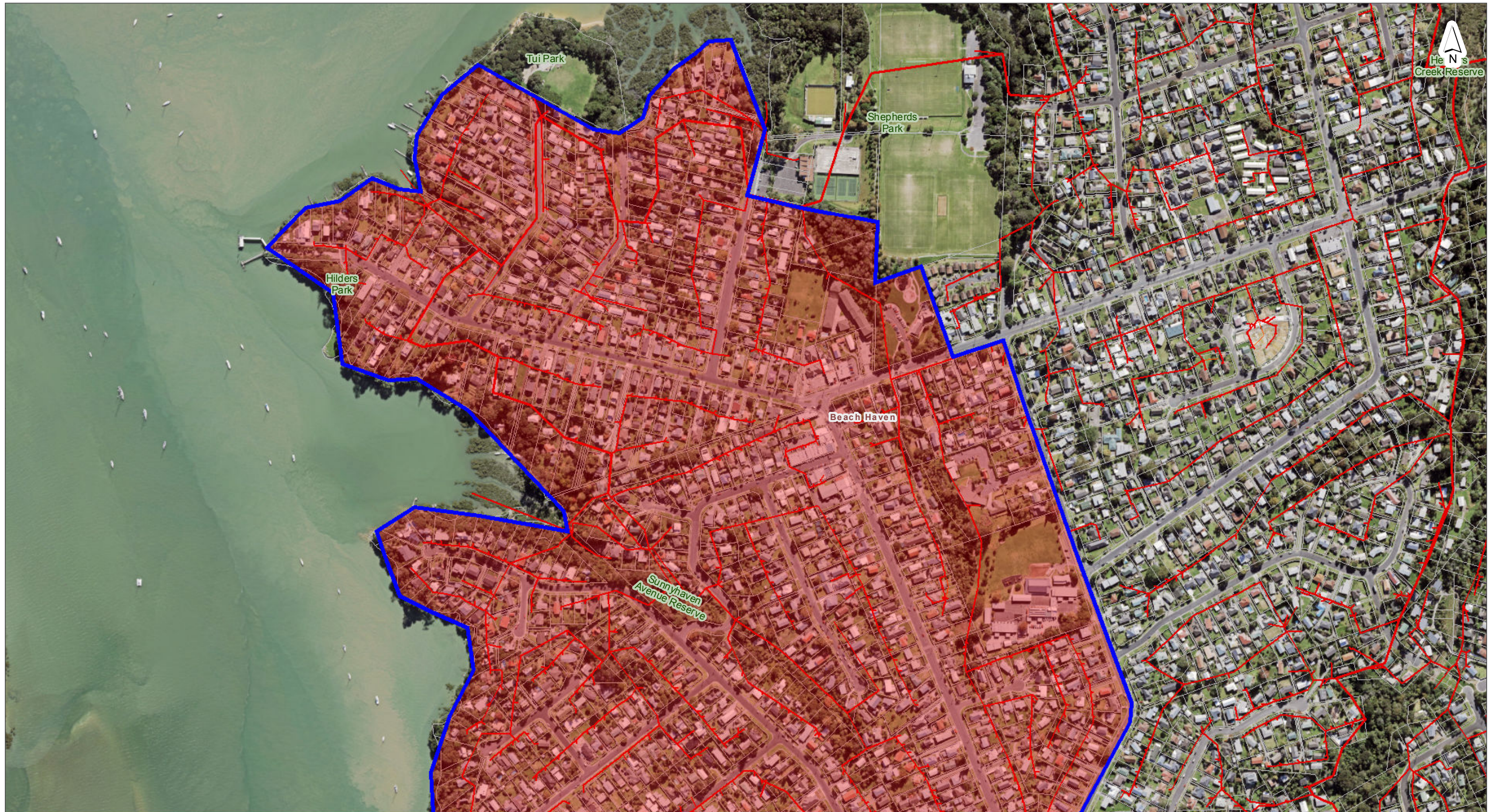


Scale @ A3  
 = 1:2,500

Date Printed:  
 4/02/2021

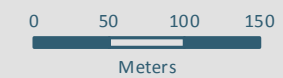






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### 96 Beach Haven Road - WW Catchment Catchment Analysis - 300mm diameter Transmission line



Scale @ A3  
= 1:5,000

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23/03/2021

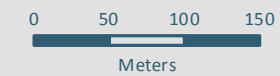






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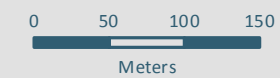






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23/03/2021



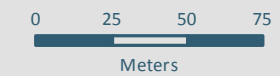




96 Beach Haven Road/13 Cresta Avenue

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### 96 Beach Haven Road Catchment Analysis - 150mm diameter line



Scale @ A3  
= 1:2,500

Date Printed:  
2/03/2021





## Development information form – Wastewater network planning summary assessment

*Information to be completed by Developer/ Engineering Consultant*

Development consideration	Description	Comments
<b>Query status</b>	Enquiry to support Plan Change Application	Pre-purchase enquiry / Enquiry to support Plan Change application / Pre-application enquiry / Resource Consent application / Engineering Plan approval.
<b>Query submission date</b>	23.03.2021	
<b>Address</b>	96 Beach Haven Road and 13 Cresta Avenue, Beach Haven	Include suburb
<b>Attach layout plan</b>	Layout Plan enclosed	Plan must clearly show proposed development site and include: <ul style="list-style-type: none"> <li>Aerial photograph with elevation contours (Note 1)</li> <li>Road names</li> <li>Boundary of development</li> <li>Preferred point of connection to existing water supply and wastewater asset.</li> </ul>
<b>Current land use</b>	Residential (single family dwellings)	Residential (single family dwellings) / Residential (multi-unit dwellings) / Residential (multi-storey apartment blocks) / Commercial / Industrial / Other (Please specify).
<b>Proposed land use</b>	Residential (multi-storey apartment blocks)	
<b>Unitary plan zoning</b>	Residential Single Housing Zone	Refer Auckland Unitary Plan
<b>Total development site area (m<sup>2</sup>/ hectares)</b> (i.e. Land area for residential developments)	7,147m <sup>2</sup>	
<b>Total development floor area (m<sup>2</sup>)</b> (i.e. Include all levels of multi-storey apartments and commercial developments)	Still to be confirmed, following plan change proposal	
<b>Number of proposed residential dwellings</b> (Typically consent or include ultimate if development is to be staged and consented at a future date)	75–100-unit, 2-3 storey residential apartment building, with between 3-4 bedroom each	Include type and number of bedrooms for residential dwellings:  <u>Type:</u> 1 bed 2 bed 3 bed 4bed 5+bed  <u>Quantity:</u>
<b>Note: (1)</b> Watercare’s GIS Viewer for Asset Data Query and Land Development/ Subdivision can be used to display aerial photography and land contour information.		

*(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
<b>Existing site design flows - pre-development scenario</b>  (If site is currently undeveloped, write 0.00 L/s in the design flows for this section)	<b>Residential Design Flows (L/s)</b>	Self-Cleansing Design Flow = 5.10  Peak Design Flow = 11.39  Calculation Enclosed	Show calculations based on Watercare CoP.  <u>Ultimate development:</u> Ultimate development is where further development may / can / will occur upstream / or within the development site currently under consideration.  If relevant Ultimate Peak Design Flow is to be calculated and will include number of potential units/ lot.
	<b>Non-Residential Design Flows (L/s)</b>	Self-Cleansing Design Flow =  Peak Design Flow =	
<b>Proposed development site design flows – post-development scenario</b>	<b>Residential Design Flows (L/s)</b>	Self-Cleansing Design Flow = 6.98  Peak Design Flow = 15.58  And if relevant  Ultimate Peak Design Flow =  Calculation Enclosed	For further guidance on whether this application needs to consider Ultimate development, refer CoP Sections: <ul style="list-style-type: none"> <li>• 5.3.2 Structure Plan</li> <li>• 5.3.3 Future development</li> <li>• 5.3.4 System Design</li> </ul>
	<b>Non-Residential Design Flows (L/s)</b>	Self-Cleansing Design Flow =  Peak Design Flow =	
	<b>Non-Residential Discharge profile / trend (i.e. Operations)</b>		
<b>Change in site flows</b>	<b>Net difference between post-development and pre-development site design flows (L/s)</b>	Net Change in Self-Cleansing Design Flow = 1.88  Net Change in Peak Design Flow = 4.19	



Wastewater development assessment		
Design consideration	Description	Comments
<b>New assets required for development</b>	To be confirmed	If applicable please provide supporting calculations and indicative design parameters (i.e. pump station and rising main or storage).
<p><b>Existing network infrastructure capacity assessment</b></p> <p>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.</p> <p><u>Notes:</u></p> <ol style="list-style-type: none"> <li>At Watercare's discretion, a Sewer Capacity Check may be required even if the net increase in site flow is &lt; 1.0 L/sec.</li> <li>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.</li> </ol>	<p>Type of Sewer Capacity Check undertaken: = (Level 1 / Level 2 / Level 3) (circle / delete as appropriate)</p> <p>Did the Existing WW Capacity Assessment Design Flow exceed the pipe-full capacity for <u>any</u> pipes within the Existing Network Assessment Extents? No</p> <p>On pipes where asset data (i.e. gradient and diameter) is known: = (Yes / No)</p> <p>On pipes where asset data was assumed: = (Yes / No)</p>	<p>See Watercare's GIS Viewer for Asset Data Query and Land Development/Subdivision to assist with obtaining data required for the capacity assessment.</p> <p>In addition to the assessment findings summary requested here, other required existing network capacity assessment key steps/ deliverables include:</p> <ol style="list-style-type: none"> <li><u>Network Assessment Extents</u> to be identified as described in the CoP. A map is to be provided showing the network assessment extent.</li> <li><u>Catchment Boundaries</u> 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.</li> <li><u>Existing WW Capacity Assessment Design Flow</u> 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.</li> <li><u>Pipe Capacity Vs. Design Flow Check</u> 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.</li> <li><u>Pipe Full Capacity Exceedance</u> - Pipes where the 'Existing WW Capacity Assessment Design Flow' exceeds the pipe full capacity are to be identified both in the tabular</li> </ol>



Wastewater development assessment		
Design consideration	Description	Comments
		<i>data, and on a map of the Network Assessment Extent. Pipes with assumed data are to be identified separately to those with known data.</i>
<b>Further wastewater comments:</b>		