

Nick Taylor

From: Ramesh Sharma s 9(2)(a)
Sent: Wednesday, 7 September 2022 3:30 pm
To: Nick Taylor; Thushan Heenkenda
Cc: Sean Mallon; Brian Robinson; Jamal Rautao; Ramesh Pillai
Subject: RE: [#CCL22983] 33 Main Highway Otaki - KCDC Infrastructure Meeting

Hi Nick,

My apologies for the delay in responding due to several priorities at work and meeting with Ngati Toa.

Morphum Consultants conducted the sewer network capacity assessment in 2019 based on the projected population growth at the time. Earlier this year Council adopted a revised growth strategy Te tupu pai, Growing Well. The Strategy anticipates higher levels of growth for the district over the next 30- years, and sets out the vision for the shape of growth, both up and out. The Strategy has subsequently informed District Plan Change 2, which seeks to enable intensification of development in line with NPS-UD and MDRS requirements.

Since Morphum's assessment was completed, several planned and unanticipated developments have come forward, including the impact of extreme wet weather and changing network loadings across the sewer network and treatment plants.

Increased population projections and the potential impact of Plan Change 2 on where growth might occur means the assessment work completed by Morphum has now lost its relevance for most of the district.

As a result, KCDC is looking to update and review network capacity as part of LTP 2024. The proposed update shall include verifying and calibrating the sewer network simulation model, treatment plant capacities and resource consent. This information will enable us to update plans and assumptions for future growth, including development contributions. Until that work can be completed, and to keep the momentum of the development, KCDC is reviewing the network capacity required for new development on a case-by-case basis.

Happy to have an open and frank discussion about enabling the proposed development in a sustainable way.

Thanks and regards

Ramesh Sharma
Water & Wastewater Services Manager
Te Kaiwhakahaere Ratonga Wai me te Parakaingaki

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From: Nick Taylor s 9(2)(a)
Sent: Friday, 2 September 2022 2:55 pm
To: Thushan Heenkenda s 9(2)(a); Ramesh Sharma
<s 9(2)(a)>
Cc: Sean Mallon s 9(2)(a); Brian Robinson s 9(2)(a) Jamal Rautao s 9(2)(a)
Subject: RE: [#CCL22983] 33 Main Highway Otaki - KCDC Infrastructure Meeting

Kia ora Ramesh,

Thank you for your time on the phone this afternoon. As I mentioned we have been working with Thushan to determine the constraints for the development of the above site, see a high level overview plan **attached**. As part of this, and in partnership with the developer, Council have commissioned HAL to complete modelling and an assessment of the wastewater network. I understand that Morphum (with HAL) have completed an assessment of the wider network, and that from our conversation that you are happy for us to be sent a copy. s 9(2)(a) can you please arrange for this to be sent through to me? Can you please also provide advice on the implementation of any recommended upgrades, and where these sit in terms of the Long Term Plan funding allocation? We note also that Council have received a significant funding contribution from Kāinga Ora, and I understand that some of this will be allocated to the upgrade of the wastewater network.

We are seeking approval to proceed through the fast track consenting process. This process allows for significant iwi involvement, and we have been in discussion with Ngā Hapū o Ōtaki over the past 4-5 months regarding this development. Caleb Royal from NHO has suggested this project could be used as an example for the implementation of the new stormwater management framework, which the development team are also in support of. We have also been engaging with Ngāti Toa and Muaupoko, which is ongoing.

When assessing the referral application, the Minister for the Environment will likely want to understand Council's position on network upgrades that may be required to service the development. We understand that there are known capacity constraints, and although the modelling work is yet to be completed, anticipate that some upgrade works will be required. We anticipate that these works will be facilitated through a development agreement, the detail of which (including cost allocation) will be determined once we have all the necessary information. I understand from our discussion today that the Kāpiti Coast District Council is willing (at a high level) to partner with the developer to facilitate the necessary upgrade works, noting that there is a significant amount of mahi to be completed before we understand what the implementation looks like. Can you please confirm this position?

Please feel free to give me a call to discuss the above.

Ngā mihi nui | Thank you

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From: Thushan Heenkenda s 9(2)(a)
Sent: Wednesday, 17 August 2022 12:49 pm
To: Nick Taylor s 9(2)(a)
Subject: RE: [#CCL22983] 33 Main Highway Otaki - KCDC Infrastructure Meeting

Hi Nick,
Here is the WW modelling quote. Let me know your confirmation to proceed with modelling.

However this one requiring assessment of two potential connection points and alignments requires a bit more work, so will be \$3,600 (excl i

And we'll turn around 4 weeks from approval.

Thanks
Regards

Thushan Heenkenda

Senior Network Engineer Water & Wastewater
Te Kaipūkaha Whakamahere Matua: Wai me te Whakapai Wai

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From: Nick Taylor s 9(2)(a)
Sent: Tuesday, 9 August 2022 11:05 am
To: Thushan Heenkenda s 9(2)(a)
Cc: Darryn Grant s 9(2)(a); Sean Mallon s 9(2)(a); Ramesh Sharma s 9(2)(a)
Subject: RE: [#CCL22983] 33 Main Highway Otaki - KCDC Infrastructure Meeting

Thanks Thushan,

It would be great if you can please request the proposals and then send them through for final confirmation.

Ngā mihi nui | Thank you

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From: Thushan Heenkenda s 9(2)(a)
Sent: Tuesday, 9 August 2022 11:00 am
To: Nick Taylor s 9(2)(a)
Cc: Darryn Grant s 9(2)(a); Sean Mallon s 9(2)(a); Ramesh Sharma s 9(2)(a)
Subject: RE: [#CCL22983] 33 Main Highway Otaki - KCDC Infrastructure Meeting

Hi Nick,

I can request proposals for the water and wastewater modelling for the above development. The tentative estimate and detail required for this type of development are as follows.

Wastewater

4k -6K depending on the following factors. Please provide a layout with proposed connecting points.

- No of the proposed connecting point location options to be considered
- If you need to look at multiple options for internal network
- Requirement on upgrades for the existing network/ pump stations

Water

7K-10K depending on the following factors. Please provide a proposed network diagram with the connection points to the public network.

- If you need to develop an internal network for the development
- If you need to look at multiple options for internal network
- If you need to look at multiple scenarios (e.g. staging)
- Requirement on upgrades for the existing network

Please let me know if you are happy with the above tentative price range. Then I can arrange to request proposals from modellers. The current time frame for model analysis is 5-6 weeks after confirmation.

We are currently engaging with modellers to identify the network upgrade requirement for Otaki with the IAF proposal and Council LTP. I can provide a planned network upgrade proposal by the end of this year.

Thanks

Regards

Thushan Heenkenda

Senior Network Engineer Water & Wastewater

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From: Nick Taylor s 9(2)(a)

Sent: Tuesday, 9 August 2022 9:19 am

To: Thushan Heenkenda s 9(2)(a)

Cc: Darryn Grant s 9(2)(a); Sean Mallon s 9(2)(a)

Subject: RE: [#CCL22983] 33 Main Highway Otaki - KCDC Infrastructure Meeting

Kia ora Thushan,

It has been some time since we caught up, I hope all is well with you.

We have completed a significant re-design for the above project and are now at a point that we can progress the modelling work. Please see the high level concept plan attached for your records. Can you please arrange for a price for both the water and wastewater modelling? Note that we have two options for the wastewater solution, connecting to the line along the northern boundary, or, connecting to the main in Riverbank Road (through the adjoining industrial land). It would be good to understand constraints (both current and anticipated) for both lines. I will need to confirm the costs with our client (Wakefield Group Holdings Ltd) before the work is completed so can you please come back to me first before engaging the modellers?

I am also keen to understand how KCDC will be utilising the [Infrastructure Acceleration Fund](#) to upgrade the Ōtaki network – do you have anything you can share? We have other potential clients in Ōtaki so keen to at least have a high-level understanding of what is planned.

Ngā mihi nui | Thank you

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From: Nick Taylor

Sent: Thursday, 28 April 2022 4:00 pm

To: Thushan Heenkenda s 9(2)(a)

Subject: RE: [#CCL22983] 33 Main Highway Otaki - KCDC Infrastructure Meeting

Will do as soon as we have approval from the client. Thanks again for your help.

Ngā mihi nui | Thank you

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From: Thushan Heenkenda s 9(2)(a)

Sent: Thursday, 28 April 2022 3:52 pm

To: Nick Taylor s 9(2)(a)

Subject: RE: [#CCL22983] 33 Main Highway Otaki - KCDC Infrastructure Meeting

Hi Nick,

Yes, there is some deficit in PS storage and upstream gravity pipes and MHs currently buffer it. Currently, we are in the process of preparing the pump station standard.

Generally, WW model pricing is around 3K and the water model price is around 6K .It takes nearly a month to process. Please send me the layout plan, and I will get the price.

Thanks

Thushan Heenkenda

Senior Network Engineer Water & Wastewater

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From: Nick Taylor s 9(2)(a) >
Sent: Thursday, 28 April 2022 3:23 pm
To: Thushan Heenkenda s 9(2)(a)
Cc: Will Caccia-Birch s 9(2)(a); Elliott Thornton s 9(2)(a); Emma McLean s 9(2)(a) >
Subject: RE: [#CCL22983] 33 Main Highway Otaki - KCDC Infrastructure Meeting

Kia ora Thushan,

Thanks for clarifying. Preliminary calculations show that the pump station already has storage capacity issues:

KCDC Method (Residential)

164 No of existing lots in catchment
2.5 Persons per lot
250 DWF per person per day
102500 DWF total per day (l/day)
1.186343 ADWF (l/sec)

4 Storage required (hrs)

17083.33 Total storage (l) using ADWF
17.08333 Storage required m³
7.21 Storage available m³
-9.87333 Deficit m³

Note that the above calc includes the recently constructed lifestyle village but does not include any industrial land, which is a significant catchment.

Like you, we are keen to understand the network so we can progress discussions on servicing the site. Can you please confirm if you will engage with HAL and Stantec to confirm the cost and timing for the wastewater and water modelling required? Or do you want us to do this directly and copy you in? In the past, KCDC have engaged the modellers directly and passed the costs on to the developer. Barber Commercial are currently reviewing the layout, which we anticipate issuing next week, or early the following week. It would be good to get the pricing etc underway ahead of this if possible – let me know how you want to go about this.

Ngā mihi nui | Thank you

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From: Thushan Heenkenda s 9(2)(a)
Sent: Thursday, 28 April 2022 10:28 am

To: Nick Taylor s 9(2)(a)

Subject: RE: [#CCL22983] 33 Main Highway Otaki - KCDC Infrastructure Meeting

Hi Nick,

I have discussed the capacity of downstream pipes with our operation team. Accordingly, there are some capacity issues in downstream lines and not critical at the moment, and no plan to upgrade in the near future. Without model assessment, I couldn't comment further on upstream and downstream pipe capacities with pump station upgrade requirements without model assessment.

Thanks

Thushan Heenkenda

Senior Network Engineer Water & Wastewater

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From: Nick Taylor s 9(2)(a)

Sent: Thursday, 28 April 2022 9:14 am

To: Thushan Heenkenda s 9(2)(a)

Subject: RE: [#CCL22983] 33 Main Highway Otaki - KCDC Infrastructure Meeting

OK thanks Thushan,

Can you please send through the information you referenced in your earlier email confirming there are no existing issues with the downstream network?

Ngā mihi nui | Thank you

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From: Thushan Heenkenda s 9(2)(a)

Sent: Thursday, 28 April 2022 9:10 am

To: Nick Taylor s 9(2)(a)

Subject: RE: [#CCL22983] 33 Main Highway Otaki - KCDC Infrastructure Meeting

Good morning Nick,

Here are some details from a 2006 report that shows the sectional area at 2.54m² so that would make the wet well a 1.8mtr diameter chamber. This only provides 7.21 m³ storage in the wet well so it's a very small pump station.

The existing pump capacity is around 10l/s(from available information and needs to be verified). The hydraulic model analysis is required to assess the improvement of the pump station capacity and downstream network due to new development.

Thanks
Regards

Thushan Heenkenda
Senior Network Engineer Water & Wastewater

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From: Nick Taylor s 9(2)(a)
Sent: Wednesday, 27 April 2022 3:10 pm
To: Thushan Heenkenda s 9(2)(a)
Subject: RE: [#CCL22983] 33 Main Highway Otaki - KCDC Infrastructure Meeting

Kia ora Thushan,

Just following up on a few things regarding the above site. We have made contact with the land owner to the north who is currently considering the proposal to connect to the sewer within his land.

Can you please send through the available information you referenced in the email below, as well as any information on the pumps and network that we spoke about during the meeting?

You also mentioned that you may need some surveying done around the manholes, is this still the case?

Ngā mihi nui | Thank you

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From: Thushan Heenkenda s 9(2)(a)
Sent: Friday, 8 April 2022 2:25 pm
To: Nick Taylor s 9(2)(a)
Subject: RE: [#CCL22983] 33 Main Highway Otaki - KCDC Infrastructure Meeting

Hi Nick,

Yes, there are currently no issues at Riverbank Rd pump station and downstream network as per available information. However, with the proposed district plan change, it may require upgrading downstream net work in the future.

Thanks
Regards

Thushan Heenkenda
Senior Network Engineer Water & Wastewater

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From: Nick Taylor s 9(2)(a)
Sent: Friday, 8 April 2022 1:53 pm
To: Thushan Heenkenda <s 9(2)(a)>
Subject: RE: [#CCL22983] 33 Main Highway Ōtaki - KCDC Infrastructure Meeting

Kia ora Thushan,

Thank you for the prompt response – it is not commonplace and is very much appreciated.

We acknowledge your comments, however I just wanted to clarify point 15 – I recall you saying that there were currently no issues with the pump station at the corner of Riverbank Road, and the pipe network immediately downstream, however I also thought you had said that there were known capacity issues closer to the treatment plant. Is this not correct? Has Council done any recent modelling as part of the network upgrade planning that could demonstrate this?

Ngā mihi nui | Thank you

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From: Thushan Heenkenda s 9(2)(a) >
Sent: Friday, 8 April 2022 1:21 pm
To: Nick Taylor s 9(2)(a)
Subject: RE: [#CCL22983] 33 Main Highway Ōtaki - KCDC Infrastructure Meeting

Hi Nick,
Thanks for this. Few minor comments.

Thanks
Regards

Thushan Heenkenda
Senior Network Engineer Water & Wastewater

Kāpiti Coast District Council

From: Nick Taylor s 9(2)(a)

Sent: Friday, 8 April 2022 12:10 pm

To: Thushan Heenkenda s 9(2)(a)

Cc: Elliott Thornton s 9(2)(a)

Emma McLean

s 9(2)(a); Sean Mallon s 9(2)(a)

Subject: [#CCL22983] 33 Main Highway Ōtaki - KCDC Infrastructure Meeting

Kia ora Thushan,

Thank you for your time this morning. Please see the attached meeting notes for your records. Can you please confirm if I missed anything, or misinterpreted any of the discussion points?

I had also meant to ask about the programme of works Council have planned as part of the network upgrades in Ōtaki, which you said were needed. Can you please confirm the timing for these works as they relate to the wastewater network we discussed? We also look forward to receiving the information relating to the wastewater network/pump station once you have had more of a look into Council's records.

We will send through plans for the water modelling once we have confirmed the internal configuration.

Thanks again and have a good weekend.

Ngā mihi nui | Thank you

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