

Fiona Morton Horizons

From: Deborah Kissick <deborah@traverse.co.nz>
Sent: Friday, 18 February 2022 3:14 PM
To: Fiona Morton Horizons
Cc: Stuart Watson; jen.anwell@gmail.com
Subject: RE: APP-2001009379.01, s92 Additional Information Request v02

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Hi Fiona,

Further to my earlier email, and responses to questions 3 and 4 - I can provide the following response to your questions of further clarification requested on 14 February 2022.

Question 2 The response to question 3 of the further information requires further clarification. To reiterate, currently it appears that the plant is only used during the day and turned off at night. The application seeks 15m³/hour over 24 hours but if it is only being used for 10 – 12 hours then abstracting this volume is not possible at that that hourly rate. While you have indicated that the WTP runs on reservoir domain/set points as a result of limited ability at the current plant to store water, does this mean that you require a higher hourly maximum to meet demand?

Veolia, operators of the existing Ohura WTP have provided the following explanation of the plant operation. Water is abstracted and treated at the WTP. Treated water goes into a clearwell, which is then pumped into the network with the excess going into the reservoir. At times of high demand there may be little to no water making it into the reservoir as was the case earlier this year. Once the reservoir does fill to its stop level, the plant shuts down and the network is supplied from the reservoir. There is no set run times for the plant, it is purely dependent on network demand and how quickly the reservoir can fill. If there was zero overnight demand, in theory the plant could just run during the day but this is not the case. The current reservoir is too small to allow the plant to be off for prolonged periods.

Due to the processes at the WTP, the raw abstraction rate needs to be fairly stable and high enough to sustain the clearwell level and the pumps which feed the network. The upgraded WTP will operate differently due to there being significantly more storage of treated water available. While work on the design is still being undertaken, it is proposed that the new plant will have around 48 hours of treated water storage in a new 500m³ water reservoir. (The current treated water storage is less than 24 hours, and closer to 15 hours in the peak summer months). The new plant will enable the plant to operate at a lower flowrate, and not during periods of low flow, as outlined in the resource consent application as the storage will buffer demand over two days. The existing storage reservoir will remain service once the new plant is commissioned as this is needed to maintain the fire fighting supply, and as a result, further increases the network storage capacity. The old reservoir will "ask" for water from the new reservoir based on its level, which will cause the network pumps to operate, filling the existing reservoir and supplying the network. The new WTP will operate dependent on the level in the new reservoir, with the plant operating to fill the new reservoir. Once water modelling is completed to determine the fire fighting requirements, there will be an option to install fire fighting booster pumps at the new WTP, replacing the need to continue use of the existing reservoir. Based on the above, I understand that the rates of take proposed in the application are sufficient to provide for the operation of the existing WTP and adapt to the new WTP once it is commissioned, as outlined from Year 6 onwards in the application.

Question 5. Please provide an update in respect of consultation undertaken with Tangata Whenua.

RDC is actively working to arrange a meeting with all iwi/hapū in the District to discuss infrastructure projects currently underway and seek guidance from each group about how to best engage on project specific matters. Once this meeting has occurred RDC anticipate being in a better position to communicate specific projects with the relevant iwi/hapū groups.

Kind regards,
Deborah

Deborah Kissick MNZPI
SENIOR ENVIRONMENTAL PLANNER



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From: Deborah Kissick
Sent: Tuesday, 15 February 2022 9:01 am
To: Fiona Morton Horizons <fiona.morton@horizons.govt.nz>
Cc: Stuart Watson <Stuart.Watson@ruapehudc.govt.nz>; jen.anwell@gmail.com
Subject: RE: APP-2001009379.01, s92 Additional Information Request v02

Good morning Fiona,

I confirm the request for additional clarification on the Ohura application has been received.

I attached the Water Loss Investigation from Veolia as requested by Question 3. With regard to Question 3 relating to the existing weir structure, while RDC would like to make improvements here, these are not currently a priority given the existing consented nature of this structure and the need to for RDC prioritise work to relocate and upgrade the existing Water Treatment Plant.

I will need to confer with the RDC team to respond to the remaining questions regarding the plant operation and consultation.

I will come back to you on these matters as soon as I am able, which I hope will be before the end of February 2022.

Kind regards,

Deborah

Deborah Kissick MNZPI
SENIOR ENVIRONMENTAL PLANNER



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From: Fiona Morton Horizons <fiona.morton@horizons.govt.nz>
Sent: Monday, 14 February 2022 1:21 pm
To: Deborah Kissick <deborah@traverse.co.nz>
Cc: Stuart Watson <Stuart.Watson@ruapehudc.govt.nz>
Subject: APP-2001009379.01, s92 Additional Information Request v02

Hi Deborah and Stuart,

Please see attached a letter seeking additional clarification regarding the Ohura Water Supply

It should be self-explanatory, but please contact me if you require any clarificiaton.

Kind regards
Fiona

FIONA MORTON | Senior Consultant Planner
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