From: Brian Richmond
To: S7(2)(a) LGOIMA ...
Cc: S7(2)(a) LGOIM...; S7(2)(a) LGOIMA 1987; S7(2)(a) LGOI...; S7(2)(a) LGOI...
Subject: RE: Whangamata - Williamson pond outfall works
Date: Monday, 11 March 2024 1:33:09 pm
Attachments: image001.gif
image002.gif
image003.gif
image004.jpg

S7(2)(a) LGOI...

Thanks for your email and for providing the information relating to TCDC's proposed upgrade of the existing soakage pond at Williamson Park in Whangamata. As discussed, we have reviewed the proposal and have the following comments:

1. The existing pond was originally designed to be a soakage basin, with a spillway outlet. As discussed in the Metis memo, the existing pond provides a long residence time, hence achieves associated settlement of sediments. Also, when not clogged there would be soakage out the base of the pond, achieving additional filtering before release to groundwater/the beach. TCDC advises that the pond has been cleared out from time to time, indicating that it is functioning as a settling device. Treatment in the proposed solution includes provision of a GPT in the outlet pipe, which would target removal of litter and sediments larger than 5mm dia. A GPT is not considered to provide equivalent treatment to what is currently provided by the existing soakage pond. It is expected that if an upgrade is being undertaken that at least the same, but ideally better treatment would be achieved by the proposal. It is understood that the Residents Society has provided some feedback on what was suitable from their perspective, i.e., no planting and no standing water, accommodating their requests cannot come at the cost of providing an effective solution.

2. Typical contaminants of concern in stormwater runoff include PAHs, heavy metals, and nutrients, in addition to the litter and sediments that are listed in the Metis memo. The memo notes that algal blooms observed in the pond in spring and early summer indicate high nutrient loading in the pond influent. The proposed pond upgrade will need to address these water quality issues. As noted in comment 1 above, the currently proposed use of a GPT only to provide water quality treatment is not considered adequate.

3. The proposal will result in more frequent discharge to the beach, at higher peak flow and velocity than what is currently experienced, particularly for the smaller channel forming events. Careful design is required to ensure erosion and scour effects are adequately mitigated so as not to cause erosion issues at the point of discharge on the beach. More information is required to demonstrate adequate consideration of potential erosion and scour effects at the beach and how the design addresses these concerns. Maintaining soakage functionality in the base of the pond is recommended. Note that providing treatment before the pond will help to maintain soakage capabilities in the pond as it will reduce the potential for clogging to occur.

4. It is understood that in an earlier design iteration, a wetland was proposed for the proposed pond upgrade. Council supports the wetland proposal, subject to adequate design to ensure that wetland vegetation would survive the dry summer conditions.

Regards

Brian

Brian Richmond | PROJECT MANAGER | Resource Consents - Team 1, Resource Use
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Private Bag 3038, Waikato Mail Centre, Hamilton, 3240

From: S7(2)(a) LGOIMA 1987 <S7(2)(a) LGOIMA 1987>
Sent: Thursday, March 7, 2024 4:57 PM
To: S7(2)(a) LGOIMA 1987 <S7(2)(a) LGOIMA 1987>
Cc: Brian Richmond <Brian.Richmond@waikatoregion.govt.nz>; S7(2)(a) LGOIMA 1987 <S7(2)(a) LGOIMA 1987>; S7(2)(a) LGOIMA 1987; S7(2)(a) LGOIMA 1987 <S7(2)(a) LGOIMA 1987>
Subject: RE: Whangamata - Williamson pond outfall works

S7(2)(a) LGOIM...

Thanks for the call earlier today. It was really helpful to chat through your concerns in a bit more detail.

As you've noted, we should be including bioretention for stormwater treatment. I've quickly spoken to TCDC – we may go in the direction of a rain garden as pretreatment for the detention basin. We'll also take into account your concerns on scour at the beach. We will try to reduce the frequency of the outfall activating as far as possible.

We'll be progressing our design over the next couple of weeks. I will send the detailed design to you for approval once complete.

It would be great if you could send through a more formalised letter outlining your concerns, as we discussed. Thanks again for all the help!

Ngā mihi,

S7(2)(a) LGOIMA 1987 (S7(2)(a) L...)
CMEngNZ CEng(UK) MICE MSc B.S.
[redacted]
S7(2)(a) LGOIMA 1987

S7(2)(a) LGOIMA 1...
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From: S7(2)(a) LGOIMA 1987
Sent: Tuesday, March 5, 2024 4:17 PM
To: S7(2)(a) LGOIMA 1987 <S7(2)(a) LGOIMA 1987>
Cc: Brian Richmond (brian.richmond@waikatoregion.govt.nz) <brian.richmond@waikatoregion.govt.nz>; S7(2)(a) LGOIMA 1987 <S7(2)(a) LGOIMA 1987>; S7(2)(a) LGOIMA 1987; S7(2)(a) LGOIMA 1987 <S7(2)(a) LGOIMA 1987>
Subject: RE: Whangamata - Williamson pond outfall works

S7(2)(a) LGOIM...

Thanks for the detailed comments. If possible, I think it might be worth our having a catchup regarding what is the best way forward. Are you still available on Thursday 7th to discuss?

Ngā mihi,

S7(2)(a) LGOIMA 1987 (S7(2)(a) L...)
CMEngNZ CEng(UK) MICE MSc B.S.
[redacted]
S7(2)(a) LGOIMA 1987

S7(2)(a) LGOIMA 1...
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From: S7(2)(a) LGOIMA 1987 <S7(2)(a) LGOIMA 1987>
Sent: Tuesday, March 5, 2024 4:11 PM
To: S7(2)(a) LGOIMA 1987 <S7(2)(a) LGOIMA 1987>
Cc: Brian Richmond (brian.richmond@waikatoregion.govt.nz) <brian.richmond@waikatoregion.govt.nz>; S7(2)(a) LGOIMA 1987 <S7(2)(a) LGOIMA 1987>; S7(2)(a) LGOIMA 1987; S7(2)(a) LGOIMA 1987 <S7(2)(a) LGOIMA 1987>
Subject: RE: Whangamata - Williamson pond outfall works

S7(2)(a) LGOIM...

Thanks for your email.

I've reviewed the information provided and have some concerns with the upgrade proposal for the Williamson Pond, as outlined below:

1. The existing pond was originally designed to be a soakage basin, with a spillway outlet. As discussed in the Metis memo, the existing pond provides a long residence time, hence achieves associated settlement of sediments. Also, when not clogged there would be soakage out the base of the pond, achieving additional filtering before release to groundwater/the beach. TCDC advises that the pond has been cleared out from time

to time, indicating that it is functioning as a settling device. Treatment in the proposed solution includes provision of a GPT in the outlet pipe, which would target removal of litter and sediments larger than 5mm dia. A GPT is not considered to provide equivalent treatment to what is currently provided by the existing soakage pond. It is expected that if an upgrade is being undertaken that at least the same, but ideally better treatment would be achieved by the proposal. I understand that the Residents Society has provided some feedback on what was suitable from their perspective, i.e., no planting and no standing water, accommodating their requests cannot come at the cost of providing an effective solution.

2. Typical contaminants of concern in stormwater runoff include PAHs, heavy metals, and nutrients, in addition to the litter and sediments that are listed in the Metis memo. The memo notes that algal blooms observed in the pond in spring and early summer indicate high nutrient loading in the pond influent. The proposed pond upgrade will need to address these water quality issues. As noted in comment 1 above, the currently proposed GPT is not considered adequate water quality treatment.

3. The proposal will result in more frequent discharge to the beach, at higher peak flow and velocity than what is currently experienced, particularly for the smaller channel forming events. Careful design is required to ensure erosion and scour effects are adequately mitigated so as not to cause erosion issues at the point of discharge on the beach. More information is required to demonstrate adequate consideration of potential erosion and scour effects at the beach and how the design addresses these concerns.

S7(2)(a) LG...
[redacted]

S7(2)(a) LGOIMA 1987
S7(2)(a) LGOIMA 1987
S7(2)(a) LGOIMA 19... | S7(2)(a) LGOIMA 1987 Waikato 3265, New Zealand



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Sent: Tuesday, February 27, 2024 11:31 AM
To: S7(2)(a) LGOIMA 1987 <S7(2)(a) LGOIMA 1987>
Subject: FW: Whangamata - Williamson pond outfall works

S7(2)(a) LGOIMA ... | S7(2)(a) LGOIMA 1... | S7(2)(a) LGOIMA 1987
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From: S7(2)(a) LGOIMA 1987 <S7(2)(a) LGOIMA 1987>
Sent: Monday, February 26, 2024 10:48 AM
To: S7(2)(a) LGOIMA 1987 <S7(2)(a) LGOIMA 1987>
Cc: Brian Richmond <Brian.Richmond@waikatoregion.govt.nz>; S7(2)(a) LGOIMA 1987 <S7(2)(a) LGOIMA 1987>; Jagdeep Singh <S7(2)(a) LGOIMA 1987>; S7(2)(a) LGOIMA 1987 <S7(2)(a) LGOIMA 1987>
Subject: Whangamata - Williamson pond outfall works

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S7(2)(a) LGOI...

Hope you are doing well. I am reaching out for technical guidance on our stormwater design at Williamson Pond, Whangamata. This is a public stormwater pond that we are upgrading in collaboration with TCDC. I previously spoke to your colleague Brian on consenting issues surrounding the proposed works. He suggested that we would need your approval before proceeding to detailed design.

I have attached our concept drawings along with a memo summarising our design. It might be best if I talked you through it. Could you please let me know what your availability is like? I can set up a meeting to suit. Thanks in advance for the help.

Ngā mihi,

S7(2)(a) LGOIMA 1987 (S7(2)(a) L...)
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