

From: tara@rclconstructionandcivil.co.nz
Sent: Tuesday, 4 September 2018 3:15 PM
To: Ray Search
Cc: cath@eclipseplanning.co.nz
Subject: FW: Harpers Ave - Wastewater Alternative Proposal
Attachments: Westridge wastewater siphon line.jpg; Sections Connecting to Existing Wastewater System.pdf

Hi Ray/Cath.

We have attached a reply from Dave Clibbery regarding the wastewater option available based on the information provided on Friday. Its interesting to see his comments regarding the engineering department within ODC.

Just to confirm something that you Ray already know but that I hadn't passed on to you Cath, is that Dave Clibbery has handed in his notice and will be leaving the ODC on 23rd November 2018. In discussion with Dave once I had found this out he is very keen while he is still there to get our resource application through and a contract between NKC Developments and ODC entered in to prior to leaving as he has, what seems to be, more knowledge and drive than a lot of others employed by the council. It is imperative that we get this joint venture into construction phase ASAP.

Kind regards,

Tom Smit
NKC Developments Ltd

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From: Dave Clibbery <DaveC@otodc.govt.nz>
Sent: Monday, 3 September 2018 4:34 PM
To: 'Office RCL' <office@rclconstructionandcivil.co.nz>; 'tara@rclconstructionandcivil.co.nz' <tara@rclconstructionandcivil.co.nz>
Subject: RE: Harpers Ave - Wastewater Alternative Proposal

Hi Tom

Further to my mail of yesterday, we confirm that what you are proposing is generally acceptable in respect of downstream reticulation capacity, but it should be noted (if you are not already aware) that the wastewater line along the northern boundary that serves the northern sections of the existing Westridge development is a small 100mm diameter sealed 'siphon' line, without downstream manholes, that relies on upstream pressure to drive flow to the ponds, 720 metres downstream. It does not connect to the 200mm rising main, that is parallel but entirely separate,

though this has not previously been properly reflected in Council's plans. The actual situation is shown in the attached image.

We are comfortable that this 100mm line has adequate capacity for wastewater from an additional 71 lots, provided that the pressure head in the line is maintained from the existing upstream manhole, with an RL of approximately 49.5m.

A small challenge is however that a few of the proposed lower sections near to the extension of Harpers Avenue – perhaps between 5 and 10 in total - appear to be too low to achieve gravity flows to this manhole. We have looked at the possibility of slightly lowering the elevation of gravity entry to the 100mm pipe, but we believe that the risk of doing so in respect of reduced downstream capacity outweighs the benefit of the relatively few additional connected lots that such a lower point of entry would permit.

Happy to discuss further if you wish.

Regards

Dave Clibbery
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From: Dave Clibbery
Sent: Sunday, 2 September 2018 5:31 p.m.
To: 'Office RCL' <office@rclconstructionandcivil.co.nz>
Subject: RE: Harpers Ave - Wastewater Alternative Proposal

Hi Tom

Thanks for that. I have not been entirely comfortable with the advice on this that has been previously given by our engineering team, and having had another look at the matter today and done a few rough calculations I am even less so. My current impression is that what you are proposing may be largely workable.

I will get back to you tomorrow once I have had a chance to discuss this further with relevant staff.

Regards

Dave Clibbery
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From: Office RCL <office@rclconstructionandcivil.co.nz>

Sent: Friday, 31 August 2018 6:13 p.m.

To: Dave Clibbery <DaveC@otodc.govt.nz>

Cc: 'Ray Search' <ray@searchconsulting.co.nz>; tara@rclconstructionandcivil.co.nz

Subject: Harpers Ave - Wastewater Alternative Proposal

Dave,

Attached is a copy of Search Consultants Drawing P11, Rev.E, which is marked up in two colours.

A. The sections coloured RED would all connect to a newly constructed Gravity Feed Waste Water System which falls towards the Northern Boundary. This will connect to the existing 200mm Rising Main as it falls towards the Oxidation Ponds (hence does not need to be pumped).

Sections in Stage One - 47no.

Sections in Stage Two - 24no.

TOTAL: 71no.

B. The sections coloured YELLOW would need to connect to a newly constructed Gravity Feed Waste System that connects to the existing waste line in Harpers Ave that falls towards the Main North Road pumping station.

Sections in Stage One - 21no.

Sections in Stage Two - 19no.

Sections in Stage Three - 17no.

TOTAL: 57no.

Kind Regards,

Tom Smit

NKC Developments Limited