

27 August 2020

Colleen Prendergast
Henderson Reeves
PO Box 11
Whangarei 0140

By e-mail: ColleenPrendergast@hendersonreeves.co.nz

Dear Colleen,

RE: POST-HEARING ADDITIONAL INFORMATION FOR DOUG'S OPUA BOATYARD

Suggested wording for condition 35 to ensure metals in sediments do not increase/exceed existing levels, in recognition of already elevated levels:

The median concentrations of total copper, lead, zinc, chromium, nickel, and cadmium from at least three samples in intertidal or subtidal sediment as measured at any point 10 metres from the facilities shall not exceed the median concentrations measured in previous years from the same locations. Once Sediment metal concentrations decrease below the coastal sediment quality standards, they shall not exceed the following:

- 65 milligrams per kilogram of copper,
- 50 milligrams per kilogram of lead;
- 200 milligrams per kilogram of zinc;
- 80 milligrams per kilogram of total chromium;
- 21 milligrams per kilogram of total nickel; or
- 1.5 milligrams per kilogram of total cadmium.

The value for total nickel was missing in the s 42A report. I have replaced it with the value from the Coastal Sediment Quality Standards presented in Table D.4.4 of the Northland Proposed Regional Plan. All concentrations above are consistent with these standards.

I have prepared a draft Pipi Relocation Plan ensure that any pipi that are affected by the proposed works at Doug's Opuia Boatyard have the opportunity to re-establish and survive in Walls Bay, rather than being harmed or discarded. I also note in this plan that, based on the 2018 4Sight survey, only a small area (<5% of the pipi bed) is anticipated to be disturbed by the proposed works. The risk to the remainder of the pipi bed (>95%) was considered to be low (discussed in the 4Sight Ecology Report, page 17) due to the relatively small dredging footprint and short duration of the dredging operation. The use of a silt curtain would further reduce any potential effects to the pipi bed by containing the majority of sediment suspended during dredging.

Kind Regards,



Dr Pete Wilson
Senior Coastal Scientist
4Sight Consulting Ltd