

Attachment G – Response to Construction Effects

Construction Effects

13. The works associated with the proposed upgrade of the wall will require significant construction activities to be implemented within the public beach area in front of the existing structure. The application provides no description or assessment of the proposed construction activities or their associated effects. Please provide a detail description of the anticipated construction works including details of likely machinery/ access requirements for implementation of these works, anticipated timing/ duration of works, works methodologies and a details assessment of the effects of these activities including potential effects upon public access, amenity, water quality and ecology.

1. PROPOSED CONSTRUCTION WORKS:

- 1.1 Proposed works for the construction of the seawall will require a degree of flexibility. When noting that a contractor has yet to be appointed the specific details of the proposed works are unable to be confirmed, as such it is considered that a detailed construction and environmental management plan (CEMP) be submitted to Council for approval prior to the commencement of works. It is recommended that the approval and implementation is conditioned as part of the resource consent decision.
- 1.2 The CEMP will be designed to document the specific requirements of the proposed project, including specific operational details, best practice, and any consent conditions relevant to the physical works. The CEMP will include the following:
 - Documentation describing the overall project, including details of the physical works methodology, rehabilitation/ stabilisation works, and future planting and maintenance works.
 - Details of the best practice “tools” implemented on the project.
 - Details of any hazardous substances spillage contingency measures.
 - Resource consent requirements relevant to the project.
- 1.3 The below is indicative of the proposed works, noting that the CEMP will confirm and provide more detail.

Proposed machinery:

- 1.4 Machinery utilised will most likely be 3 excavators in order to complete the work quickly. Best practice measure will be detailed within the CEMP regarding the use of all machinery for instance; biodegradable machinery oils; off-site fuelling; and careful washing down of all machinery prior to use.

Access:

- 1.5 Access would be gained from the Macrocarpa Reserve or other suitable reserves and as far as practical kept away from the Tarapatiki Stream as recommended within the Ecological Report.

Timing/duration:

- 1.6 Works will be restricted between the hours of 7.30am and 6pm (Monday to Saturday), in line with NZ 6803:1999 Acoustic standard for construction work.
- 1.7 Works will also be halted 4 hours either side of high tide, in order to mitigate erosion and sediment effects and safety. Further restrictions may be required during storm events.

Methodologies:

- 1.8 As will be outlined within the CEMP construction methods will be designed to minimise any adverse impact on the Environment and Persons.
- 1.9 The basic methodology is to create a temporary seawall (potential option only) created from excavated sand and/or materials to be used in final product. Construction of the seawall can then take place behind the temporary wall. It is noted the same methodology has been utilised for other seawalls within the area.

2 ASSESSMENT OF EFFECTS:

Public access

- 2.1 Public access along the portion of beach subject to this application will be limited during the duration of the construction; this will be temporary and will not impact upon the extensive stretches of beach extending either side of the proposed works. For those wishing to walk the length of the beach they will need to detour on to Buffalo Beach Road footpath around the area of construction. No restrictions are proposed along Buffalo Beach Road.

Amenity

- 2.2 Adverse effects on amenity will be short lived and limited to the duration of the construction works. Hours will be limited to 7.30am – 6pm as outlined in section 1.5 above. While some impact on amenity may be felt for the duration of the construction period this will largely be limited to the owners and occupiers of the beach front properties (essentially the consent holders) and the users of the beach.
- 2.3 While beach amenity will likely be reduced during the duration of construction this impact will be temporary and limited to the area or works.

Water quality

- 2.4 It is noted that the construction of a seawall will likely result in a short term increase in water turbidity with the incoming tide washing away loose materials (sand, earth etc). Every effort will be made to minimise adverse effects on water quality. Construction will be limited outside the hours of high tide and storm events to further mitigate adverse effects. Further details will be provided within the CEMP.

3 RECOMMENDED CONDITIONS:

To be completed prior to the commencement of any works on-site

1. Prior to commencing works on site, the consent holder shall obtain and implement a traffic management plan approved by Council, if any parking, traffic or safe movement of pedestrians will be disrupted, inconvenienced or delayed, and/or if temporary safety barriers are to be installed within or adjacent to Council's road or beach reserve.
2. Prior to commencing works on site the consent hold shall submit for council approval a detailed construction environmental management plan (CEMP). These measures shall be implemented prior to the commencement of any works on site and shall remain in place for the duration of the project, until all exposed areas of earth and sand are permanently stabilised.
3. A DOC Ranger to inspect the beach prior to works commencing to ensure any nesting birds are not adversely affected by the proposal.

To be monitored throughout works

4. The consent holder shall implement suitable measures to prevent deposition of any debris on surrounding roads by vehicles moving to and from the site. In the event that any material is deposited on any roads, the consent holder shall take immediate action, at his/her expense, to clean the roads. The loading and stockpiling of materials shall be confined to the subject site or adjacent reserves.