

# Memo

**File No:** 32 90 73  
**Date:** 26 June 2020  
**To:** Wharekawa Coast 2120 TAG and Community Panel  
**From:** Rick Liefting  
**Subject:** **Memo – Wharekawa Coast 2120 compartment methodology**

---

## 1 Background

The delineation of compartments within the Wharekawa Coast 2120 project area is required to allow for the alignment of information and management options within similar river and coastal environments. The compartments will be used to summarise information from the project area into logical sub areas.

The delineation of the coastal areas was previously undertaken by T&T 2010 and is used as the initial basis for the Wharekawa 2120 compartments.

## 2 Methodology

### 2.1 Coastal processes areas

The T&T 2010 coastal compartments (Figure 1) were reviewed by Dr Terry Hume and WRC (Rick Liefting and Stephen Hunt) on their appropriateness for the Wharekawa Coast 2120 project and their alignment with physical coastal processes and river catchment areas (see Section 2.2). The review resulted in changes to some of the compartment boundaries to better fit with the current knowledge of coastal processes and better alignment with river catchments.

The primary changes to the T&T 2010 coastal compartments are a change in boundaries for the Whakatiwai area and an additional compartment to the north (Figure 1). The change in coastal compartment areas will not result in any significant issues with information exchange from the T&T 2010 work.

The landward extent of the coastal areas is defined by a generalisation of the 5.0 m RL (MVD53) elevation. The 5.0m RL (MVD53) elevation was chosen as it reasonably represents the potential extent of coastal processes to 2120.

### 2.2 River Catchment areas

The NZ River Environment Classification (<https://www.mfe.govt.nz/environmental-reporting/about-environmental-reporting/classification-systems/fresh-water.html>) layers were used to delineate river

catchments in the project area. River catchments that aligned with the coastal compartments were merged to form one river catchment area for each compartment, with sub-compartments representing the difference between inland and coastal areas.

The river catchment areas do not align with the project area (Hauraki District Council boundaries) due to:

- Catchment areas that are outside the project area and therefore are managed by either Waikato District Council or Auckland Council.
- Catchment areas within the project area that do not flow to the Wharekawa coast.

The above areas are identified in the compartments should further assessment be required in future phases (Figure 1).

### **3 Output**

The Wharekawa Coast 2120 compartments (and sub-compartments) are available as an ARCGIS shape file layer from WRC. Figure 1 shows a map of the compartments.

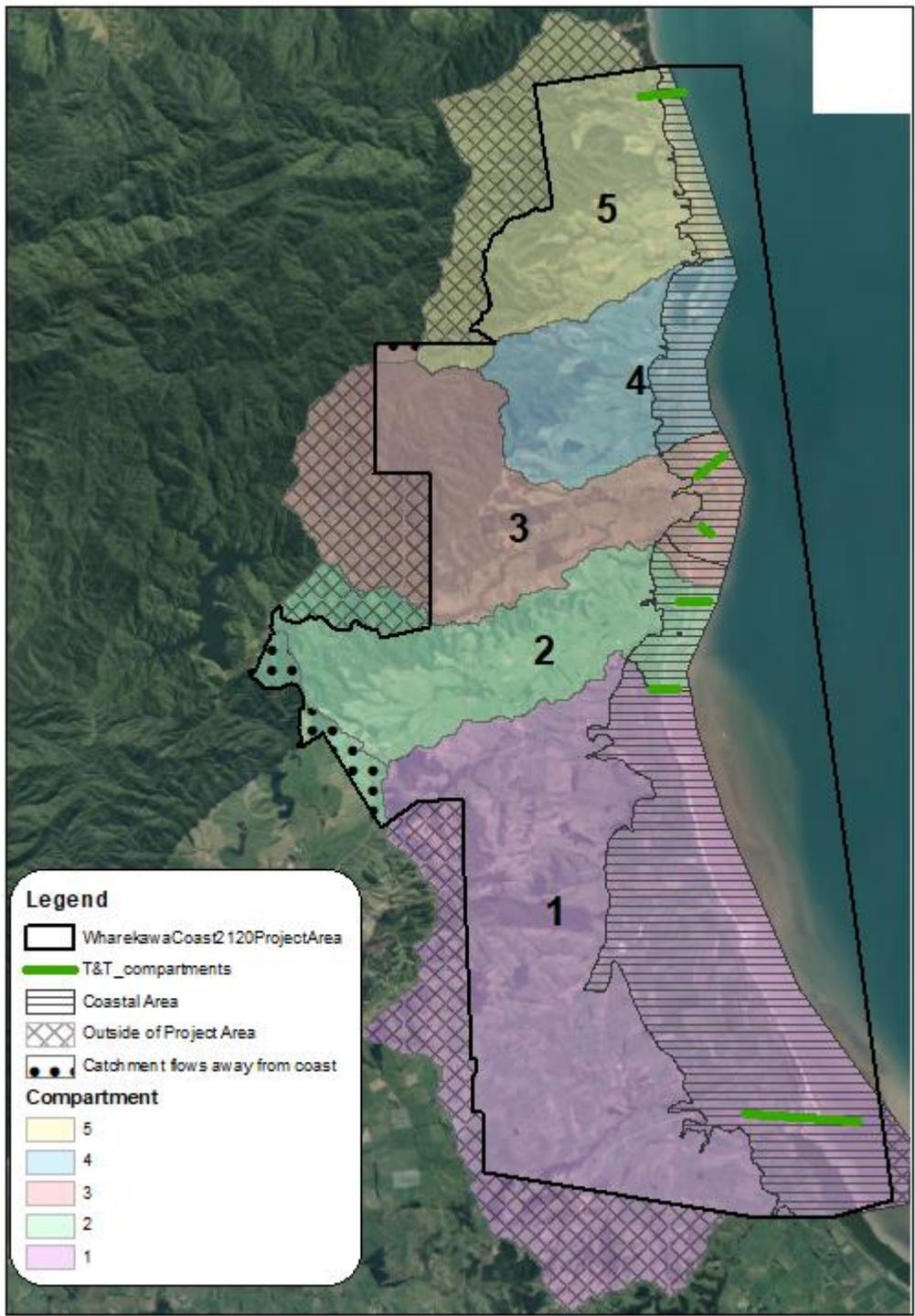


Figure 1. Compartment areas for the Wharekawa 2120 Project.