

**To:** **38 RAWENE AVENUE DEVELOPMENT** **Date: 22 June 2022**

**Attention: ANNA MOWBRAY & ALI WILLIAMS** **Job No: 65441**

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## **38 RAWENE AVENUE PROPOSED HELICOPTER FLIGHTS COASTAL BIRD INVESTIGATION SUMMARY 2022-23**

Bioresearches have been engaged to undertake investigations of the Coastal Marine Area adjacent to 38 Rawene Avenue, Westmere aimed at documenting (a) the use of intertidal habitats that would be under a helicopter flight path by feeding and resting birds, and (b) use of the rocky point for high tide roosting.

The investigations will be conducted over a 12-month period with site surveys undertaken quarterly (July 2022 – winter; October 2022 – spring; January 2023 – summer; April 2023 – autumn). In each quarter, two surveys will be undertaken, one during a neap tide and one during a spring tide; a total of 8 surveys are proposed.

Each survey would consist of hourly counts from about half tide rising (i.e., Low Water + 3 hours) to half tide falling (i.e., High Water + 3 hours) providing a total of 14 datasets per quarter and 56 for the entire survey.

Each count would record the species present and their numbers, the area of the habitat being used, the habitat use applying (i.e., feeding, resting, roosting) and any extraneous influences such as disturbance. The site conditions would also be recorded before each count – air temperature, barometric pressure, wind speed and direction, and general weather conditions.

An interim report will be produced following the spring survey and the full report after the autumn survey. These reports would contain the raw data and the final report would contain reference information from similar situations (such as the consented Auckland Heliport) and recommendations based on the site-specific data with the aim of avoiding adverse effects on coastal birds.

The investigations would be completed by Graham Don (MSc Hons), Senior Ecology Consultant, who has 47 years' experience with ecological assessments and has focussed on coastal birds for about the last 20 years.