

## Project Baseline Wellington Kelp Survey Update – 15 June 2019

### Kau Bay Kelp Observation – D08 (30 Nov 2018)

Reference: KB D08

Date: **30 Nov 2018**

Time: 6.10pm – 6.45pm

Route: From Kau Bay into Mahanga Bay

Surface snorkel observation

Snorkeler: Nicole Miller, Cathryn Quick

Method: GPS tracking with Garmin etrex 20x in waterproof housing.

Visibility: 2-5m (at surface, estimated)

Surface Temp: 17° C (Cathryn's Olympus TG-4 Tough)

Tide: Incoming (low tide approx. 6.02pm, 0.5m, Linz)

Kelp Bed Size: Circumference 410m, **area covered 1,996m<sup>2</sup>**





Nov 2017 (darker blue, **3,619m<sup>2</sup>**, plus southern extension **553m<sup>2</sup>**) & Nov 2018 light purple (**1,996m<sup>2</sup>**).



Dec 2016 (green 1,377m<sup>2</sup>) & Nov 2017 (darker blue, **3,619m<sup>2</sup>**, plus southern extension **553m<sup>2</sup>**). These also the smallest and largest areas of kelp observed.

### Kau Bay Kelp Observation – D09 (15 June 2019)

Reference: KB D09

Date: **15 June 2019**

Time: 9.10am – 9.45am

Route: From Kau Bay into Mahanga Bay

Surface snorkel observation

Snorkeler: Nicole Miller

Method: GPS tracking with Garmin etrex 20x.

Visibility: 1-3m (at surface, estimated)

Surface Temp: 12-13° C (Nicole's Olympus TG-4 Tough)

Tide: incoming (low tide approx. 8.55am, 0.6m, Linz)

Conditions: calm on Kau Bay side, slight swell on Mahanga Bay side of point

Main Kelp Bed: Circumference 276m, area covered 2,306m<sup>2</sup>

Extension in Kau Bay: Circumference 107m, area covered 482m<sup>2</sup> (14m shared boarder)

Overall Size: Circumference 355m, **area covered 2,788m<sup>2</sup>**

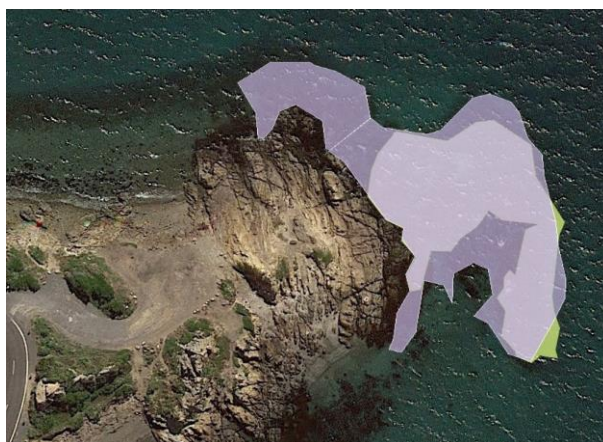
Photos Rockpools and Kelp Bed – 15 June 2019







Nov 2018 (light purple 2,306m<sup>2</sup>) & June 2019 (dark pink, 2,788m<sup>2</sup>).



June 2018 (yellow-green, 1,590m<sup>2</sup>) & June 2019 (dark pink, 2,788m<sup>2</sup>).

#### Photos Rockpools and Kelp Bed – 15 June 2019

