



# Huia Water Treatment Plant

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Ecological Assessments

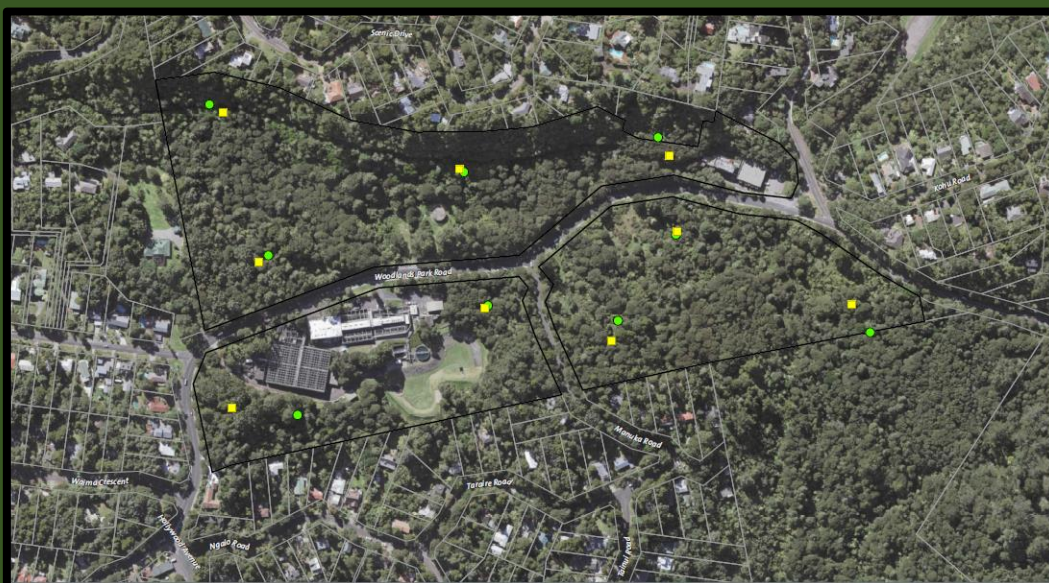


# Assessment components

- Avifauna
- Bats
- Herpetofauna
- Freshwater habitat
- Vegetation
- External peer review
- \*Entomology







**A16055 HUIA WTP ALTERNATIVES ASSESSMENT**  
**Avifauna Survey Sites**  
 Date: 11 December 2017 | Revision: 0  
 Plan prepared by Boffa Miskell Limited  
 Project Manager: Ian Northey@boffa miskell.co.nz | Drawn: SGA | Checked: LK

This plan has been prepared by Boffa Miskell Limited on the specific instructions of the Client. It is a planning tool only and is not intended to be used for any other purpose. The Client is responsible for the accuracy of the information provided to Boffa Miskell Limited. Boffa Miskell Limited is not responsible for the accuracy of the information provided by the Client or for the use of the information provided by Boffa Miskell Limited.

**Legend:**  
 Yellow square: ARD Sites  
 Green circle: 5 Minute Bird Counts  
 Black line: Site Boundary

**Data Sources:** Auckland Council Aerials (2014), Boffa Miskell  
**Projection:** NZGD 2000 New Zealand Transverse Mercator



**A16055 HUIA WTP ALTERNATIVES ASSESSMENT**  
**Lizard Survey Results**  
 Date: 28 February 2018 | Revision: 0  
 Plan prepared by Boffa Miskell Limited  
 Project Manager: Rachel deLambert@boffa miskell.co.nz | Drawn: SGA | Checked: PCH

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**Legend:**  
 Yellow circle: Lizard Fauna Sampling Points  
 Yellow square: Survey Area  
 Yellow triangle: Lizard Observations  
 Yellow circle with triangle: Copper skink  
 Yellow triangle with circle: Unidentified skink

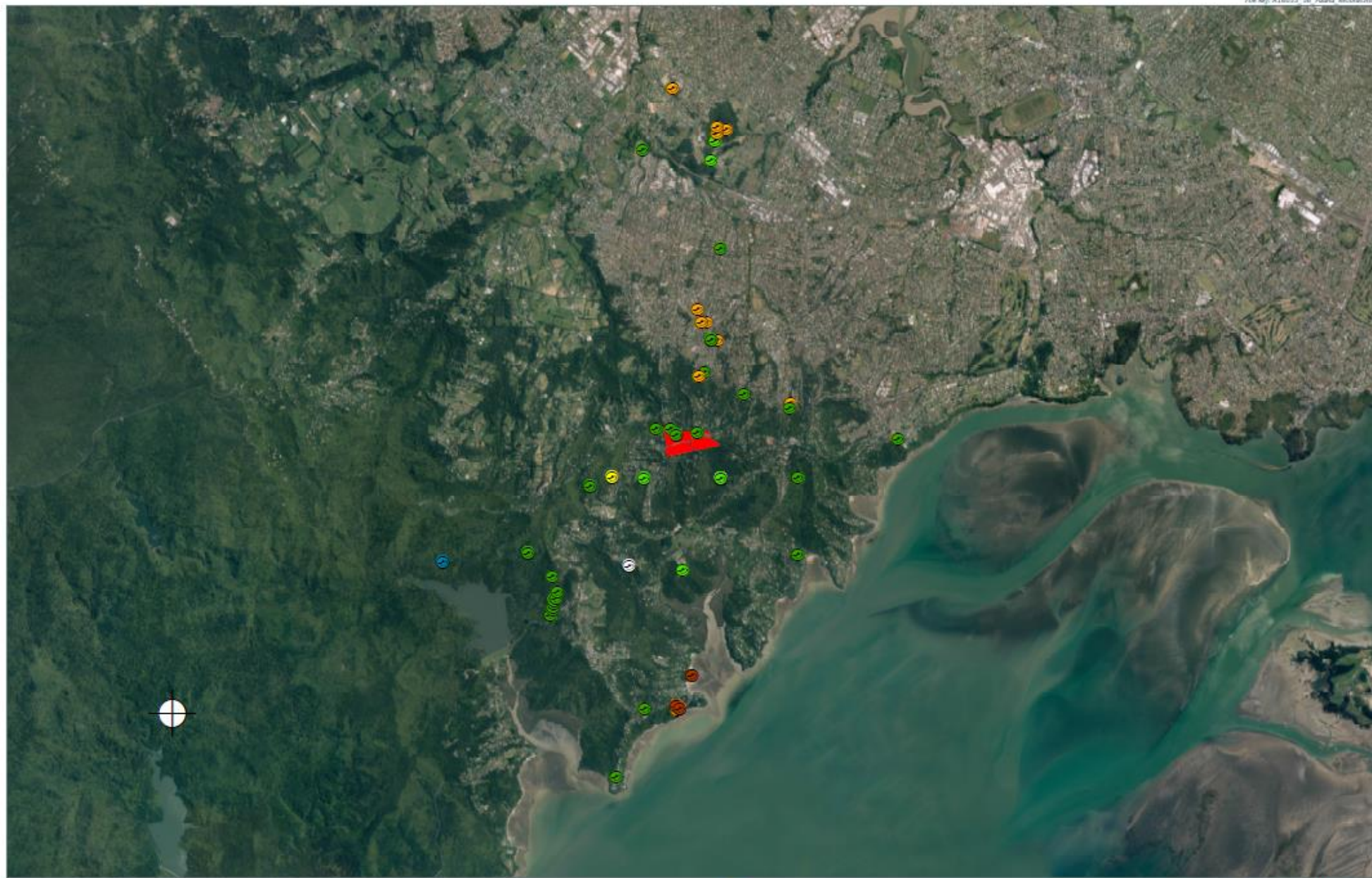
**Data Sources:** NZGD Data Service (Aerials, Cadastre), Auckland Council, CHD, Boffa Miskell  
**Projection:** NZGD 2000 New Zealand Transverse Mercator

**PROJECT NAME:** Bat Transects 100 m  
**Date:** 17 Oct 2016 | **Revision:** 0  
 Plan prepared for 100000 by Boffa Miskell Limited  
 Project Manager: name.name@boffa miskell.co.nz | Drawn: XGA | Checked: XGA

**Legend:**  
 Yellow circle: ABM locations  
 Blue line: Streams  
 Blue dashed line: Permanent Piped  
 Blue solid line: Intermittent  
 Blue dotted line: Ephemeral  
 Green: Kanuka Forest  
 Dark green: Kauri - Podocarp Forest  
 Pink: Kanuka Broadleaf Scrub Mosaic  
 Light pink: Modified Scrub  
 Blue: Existing WTP  
 Purple: Decommissioned WTP

**DRAFT**









Legend

- |                     |                        |              |
|---------------------|------------------------|--------------|
| Streams             | Swamp Area             | Land Parcels |
| — Permanent         | SEV Site               |              |
| - - Permanent Piped | ARC Habitat Assessment |              |
| — Intermittent      | Visual Assessment      |              |
| - - Ephemeral       | Site Boundary          |              |

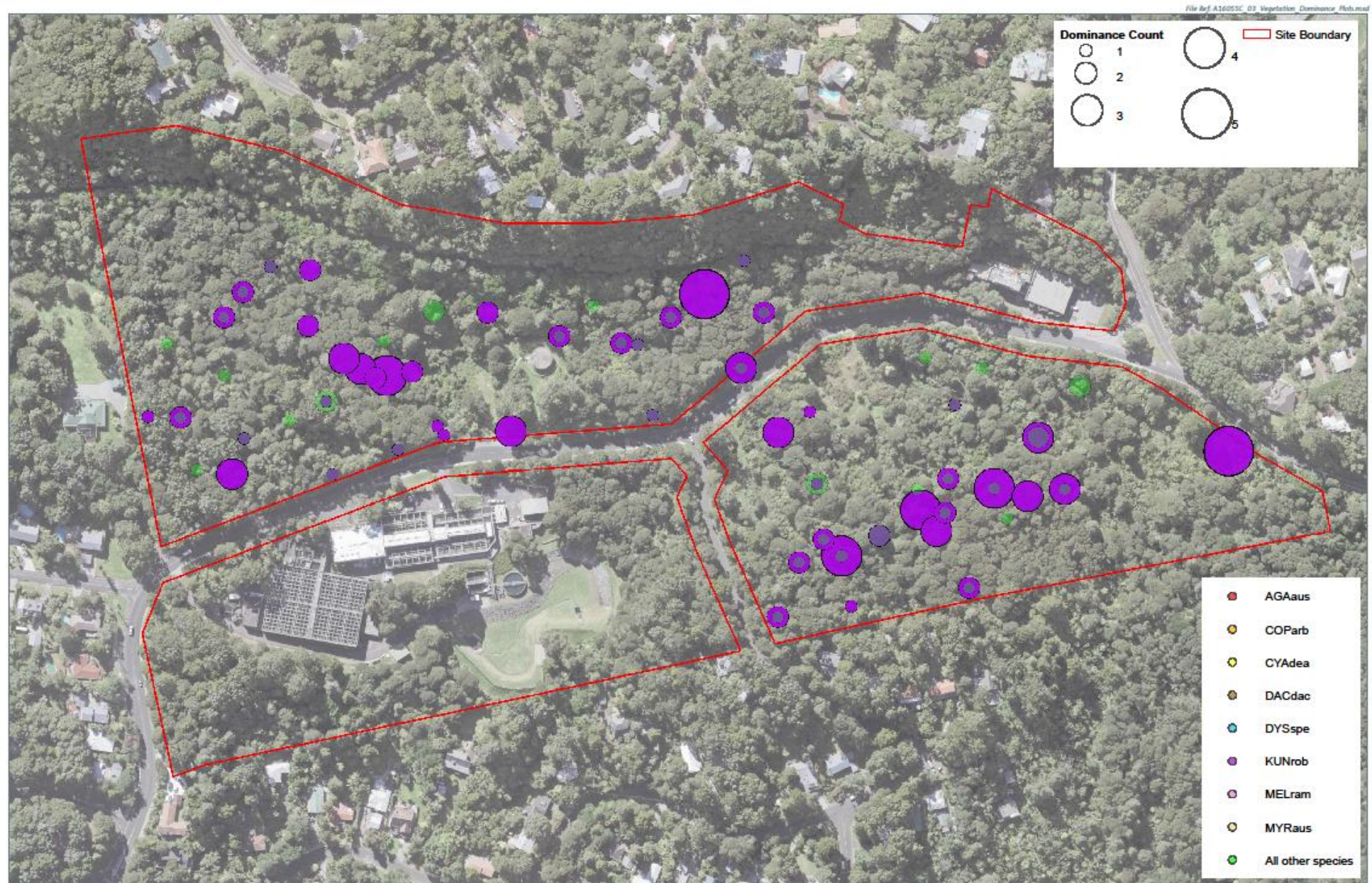


[illegible]





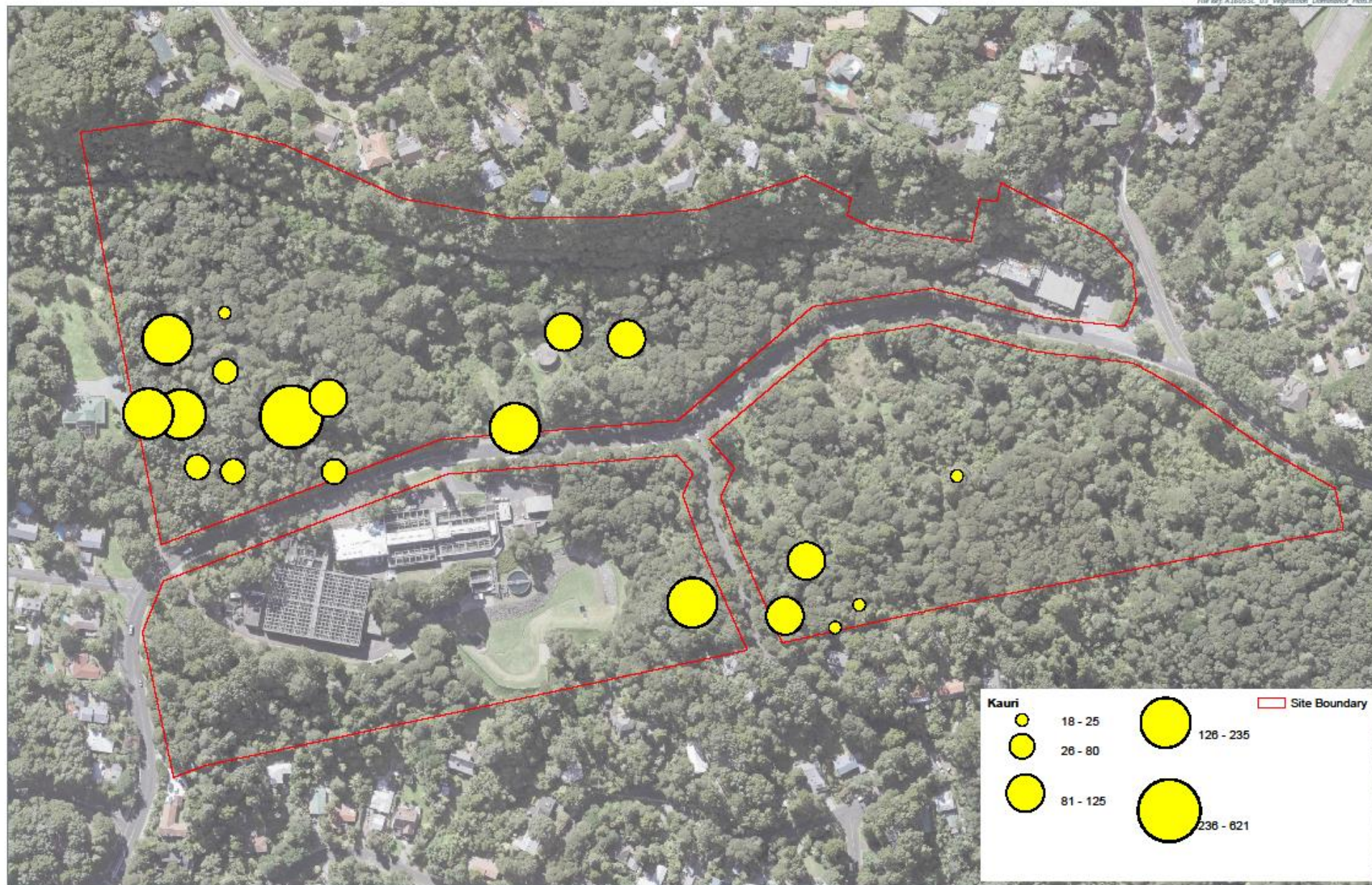




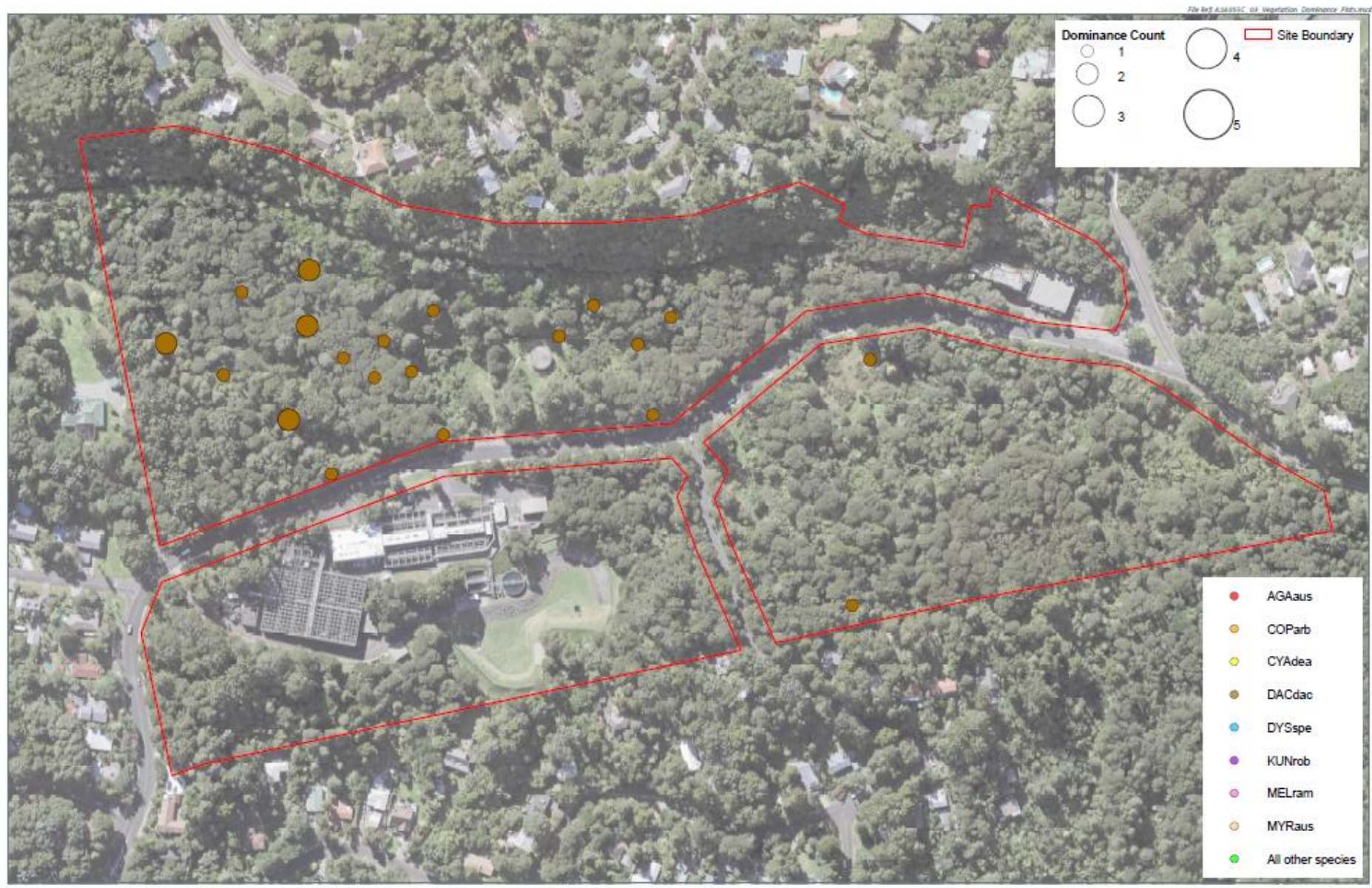




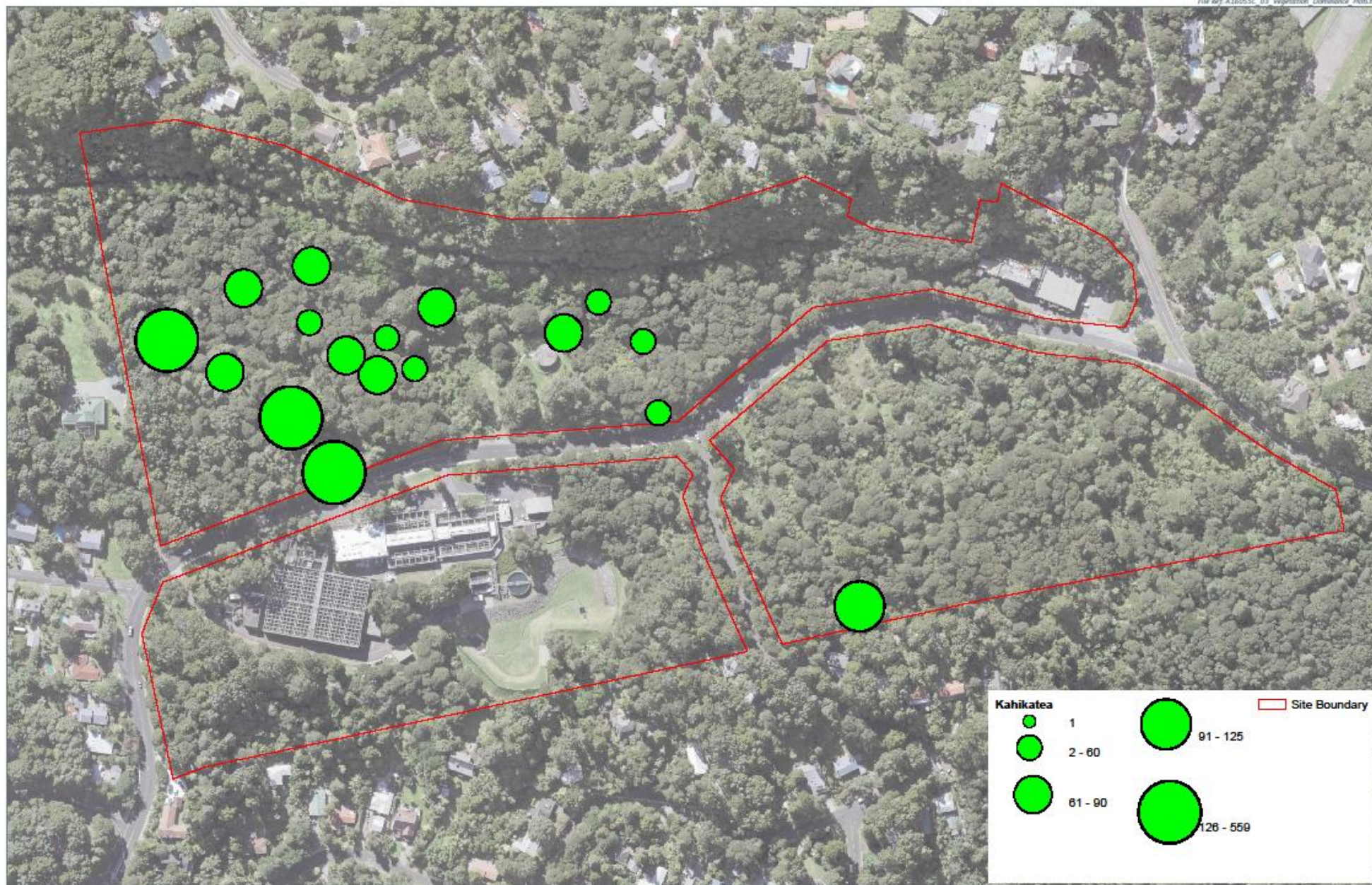




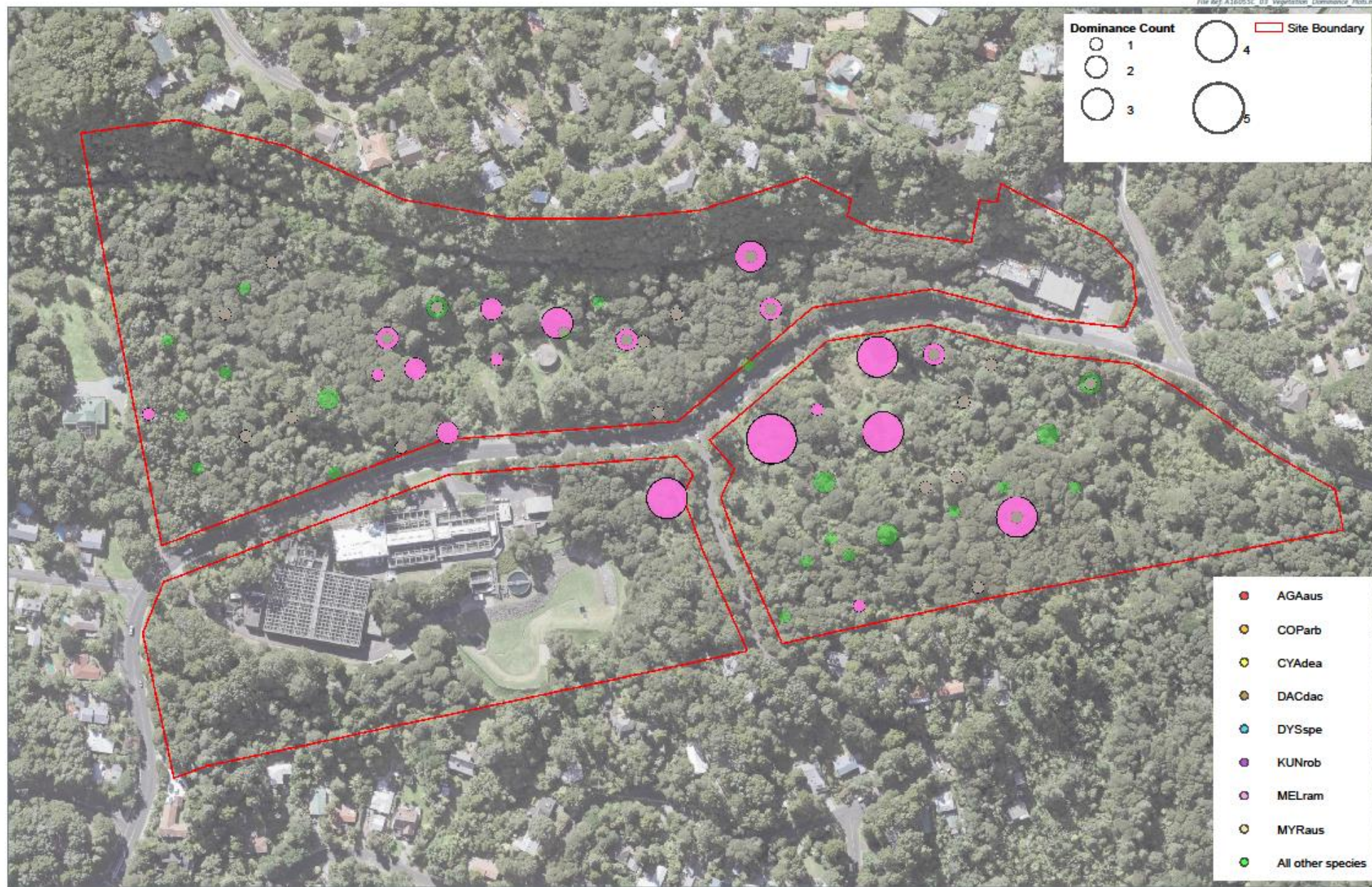












Data Sources: LINZ, BML

Projection: NZGD 2000 New Zealand Transverse Mercator

Legend

A16055C HUIA WTP ECOLOGY ASSESSMENT OF EFFECTS

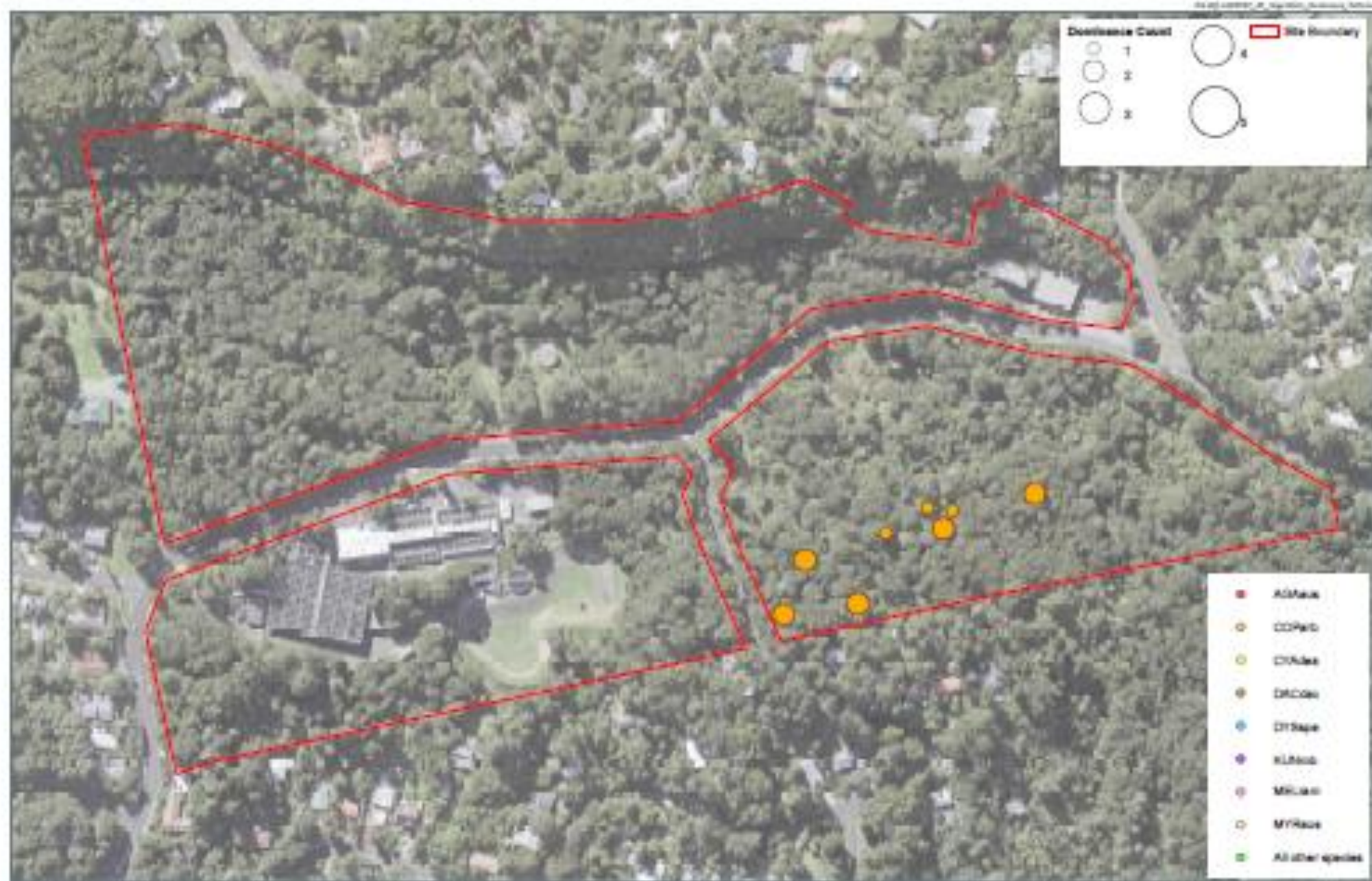
Vegetation Dominance Count

Date: 24 January 2018 | Revision: 0

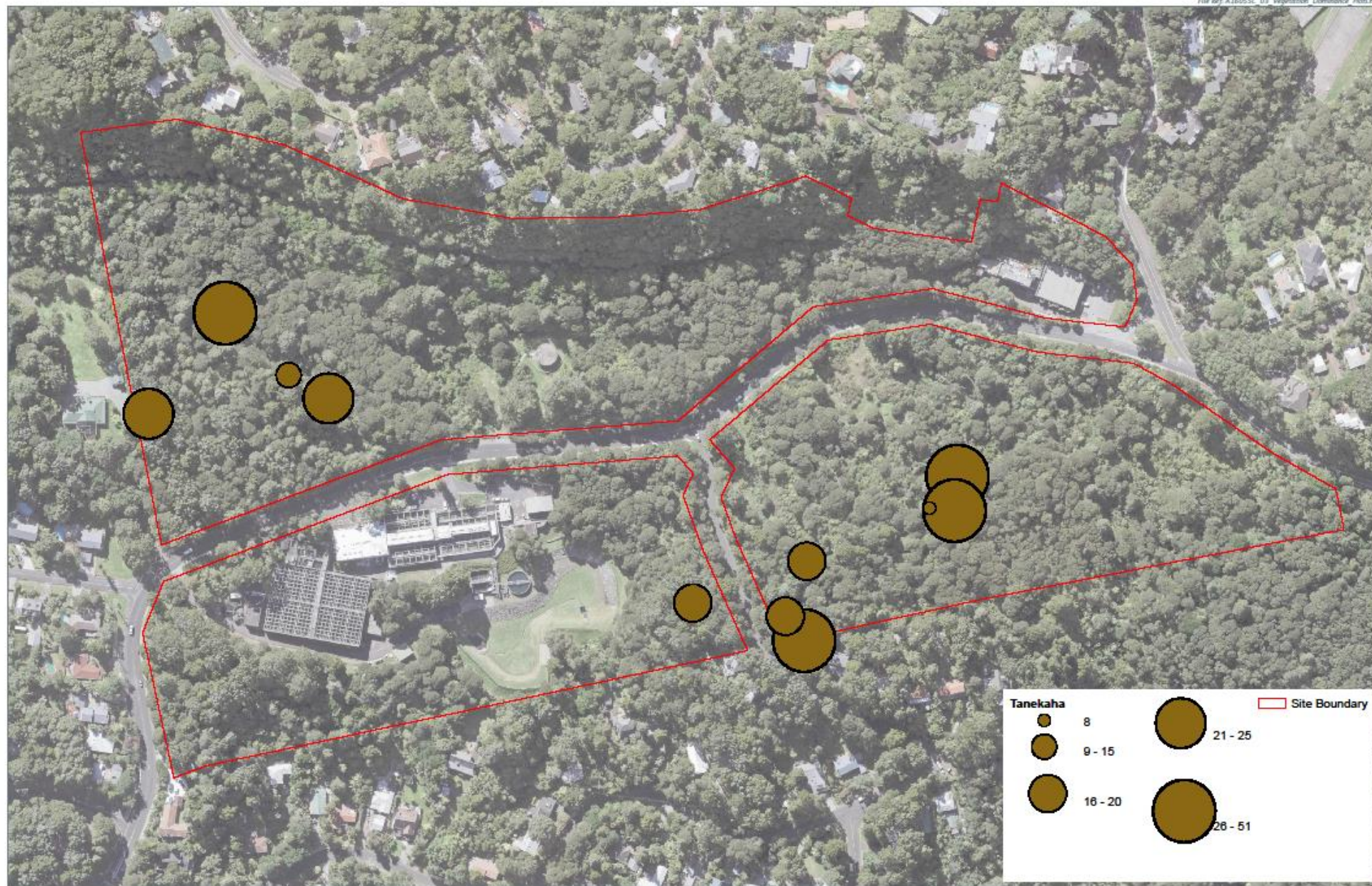
Plan prepared by Boffa Miskell Limited

Project Manager: ian.boothroyd@boffamiskell.co.nz | Drawn: MDU | Checked: SFJ









0 40 m  
1:3,000 @ A3

Data Sources: LINZ, BML

Projection: NZGD 2000 New Zealand Transverse Mercator

Legend

A16055C HUIA WTP ECOLOGY ASSESSMENT OF EFFECTS

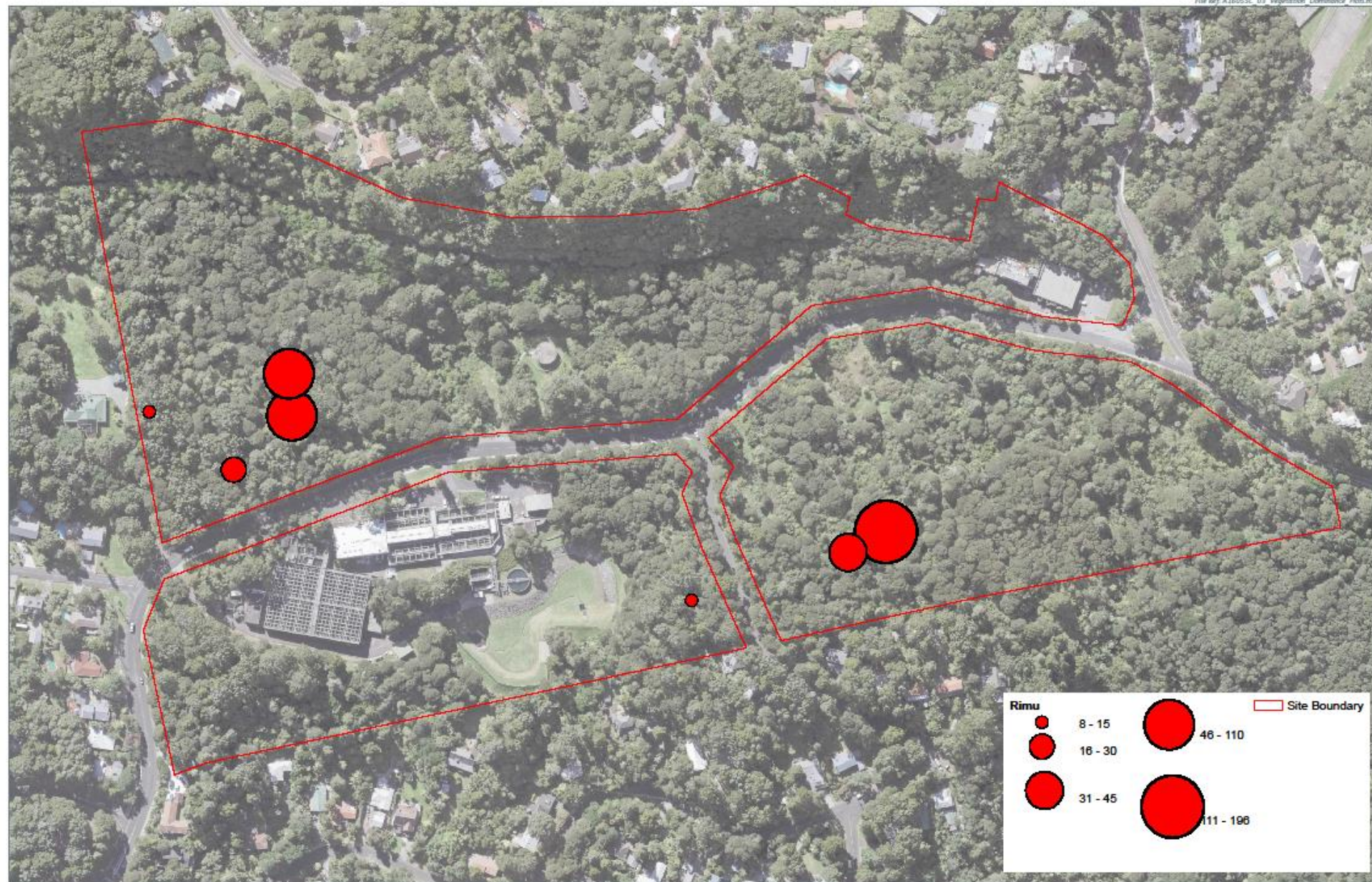
**Vegetation Dominance Count**

Date: 24 January 2018 | Revision: 0

Plan prepared by Boffa Miskell Limited

Project Manager: Ian Boothroyd@boffamiskell.co.nz | Drawn: MDu | Checked: SFI

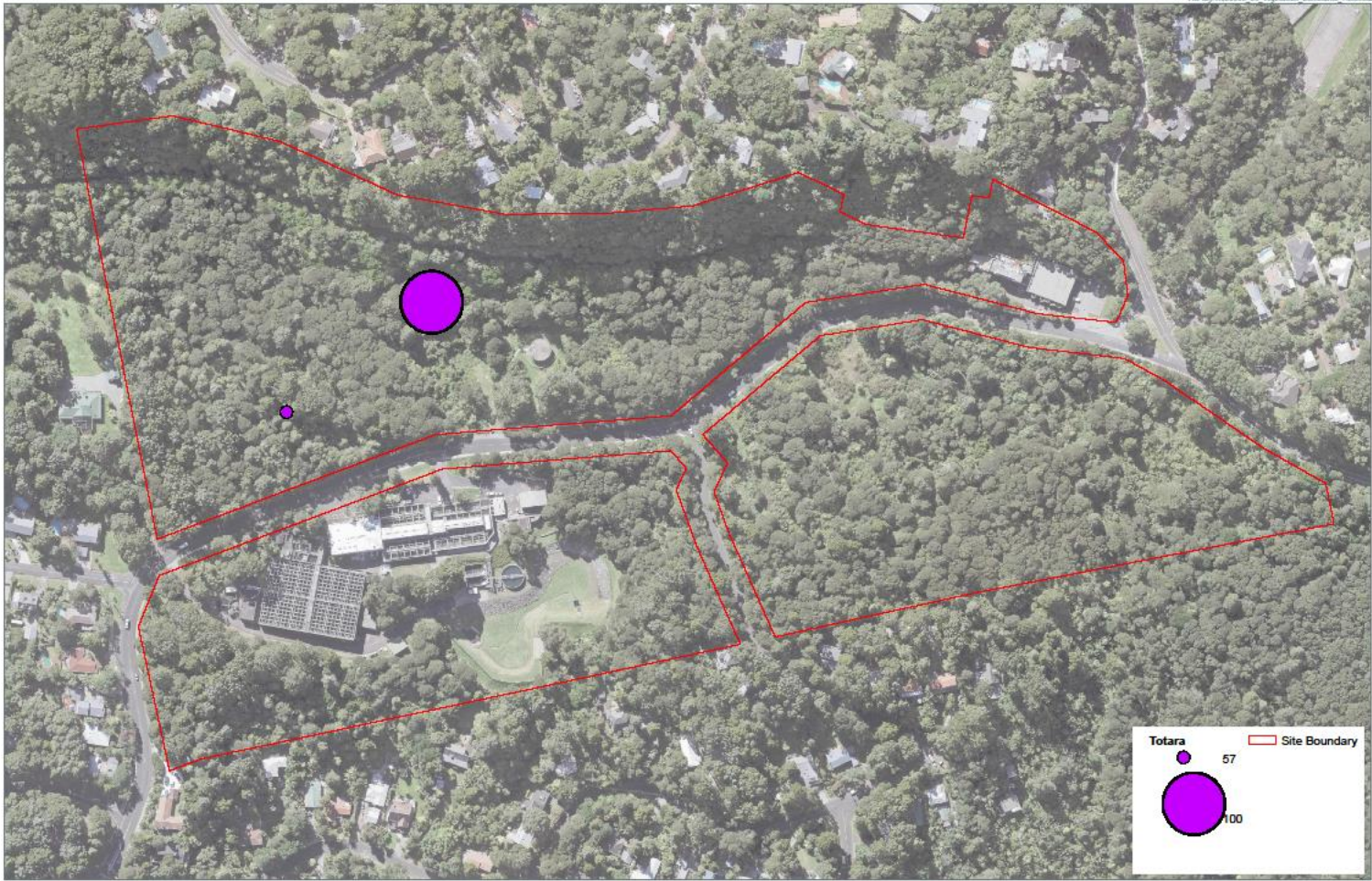
















#### Streams

- Permanent
- Permanent Piped
- Interimittent
- Ephemeral
- Land Parcels

#### Ecological Integrity Classification

- Lower (less sensitive)
- Medium
- High
- Stream Buffer (10m)
- Buffer from Boundary (10m)



