

**Memorandum of Understanding
between
Biosecurity New Zealand and Nimmo-Bell
on
FORST Research Project
NIMMO501 Valuing Biodiversity**

1. Objectives and outputs of the research relating to BNZ

The primary objective of the project is to create a method for valuing impacts of non-indigenous invasive species on non-market values (environmental, cultural, social) that can be applied by Biosecurity New Zealand (BNZ) to rapidly and accurately evaluate and rank projects aimed at protecting indigenous biodiversity from incursions of exotic pests and diseases. This objective will be achieved by developing a robust economic framework that maps the exotic pest/disease pathway within the indigenous ecosystem; identifies exposure and risk; traces out the time dimension associated with incursion; links management responses to outcomes, the costs of management and associated benefits. Applied valuation studies will be integrated into the economic framework. A Decision Support System (DSS) will be produced. The DSS model will be developed so that it can be operationally implemented by BNZ staff.

2. Agreed governance for the project

2.1. Make up of Steering Committee

2.1.1 High level

Douglas Birnie	Director Policy & Business Development, BNZ
Debbie Pearson	Director Pre-Clearance, BNZ
Geoff Hicks	Department of Conservation

2.1.2 Working level

Project Manager (to be contracted by BNZ, by March 2006)

Brian Bell	Director, Nimmo-Bell
Allan Bauckham	Marine Biosecurity Programme Coordinator
Chris Baddeley	Policy Manager
Christine Reed	Risk Analysis Manager
Daniel Kluza	Senior Risk Analyst Marine
George Ria	Director, Maori Strategy

N.B. The Steering Committee described above will apply to a suite of BNZ-led projects relating to the identification of biodiversity values.

- 2.2. Frequency of working level steering committee meetings
 - Initially monthly and then quarterly
- 2.3. Nimmo-Bell's point of contact with BNZ will initially be Allan Bauckham. A project manager to be appointed by BNZ will then assume this role.

3. Project initiation

- 3.1. Understand where the research fits with other research in allied fields
 - This will take a few months to determine.
 - BNZ has drawn up a chart of related projects, which will need to be built on (see attached)
- 3.2. Access to existing database of relevant reports, papers and publications
 - Via BNZ contact point
- 3.3. Obtaining an understanding of the present decision process
 - Nimmo-Bell will provide a list of questions for Allan Bauckham
 - BNZ will make available key personnel for interview
- 3.4. Degree of input BNZ would like into the research
 - This will be determined by the Project Manager
- 3.5. Key ecosystems of concern
 - High Country
 - Aquatic*
 - Marine*
 - Indigenous forest

* Aquatic and Marine are the areas with the least information
- 3.6. Identify key pests and diseases
 - BNZ has initiated a strategic project to identify the top 30 pests and diseases. Indicative results are expected in late 2006 and we will have access to this.
- 3.7. Case studies (from which 4 will be drawn) and initial contact person
 - 3.7.1. BNZ has identified an initial list of possibilities as follows
 - Didymo Maria Cassidy
 - Painted Apple Moth Chris Baddeley
 - Moths generally Chris Baddeley
 - Sea squirts Brendan Gould
 - Wilding pines Chris Baddeley
 - Undaria Maria Cassidy
 - 3.7.2. Site specific possibilities
 - Fiordland Maria Cassidy
 - Chatham Islands Allan Bauckham

- Stewart Island Allan Bauckham
- Sub-Antarctic Islands Allan Bauckham

4. Key issues from BNZ perspective

That what ever the project develops will fit in with BNZ processes and will fit in with other BNZ-led projects relating to the identification of biodiversity values.

Signed

Brian Bell
For Nimmo-Bell
Date _____

Signed

Douglas Birnie
for Biosecurity New Zealand
Date _____