#### 1. Supporting information

### 1.1. Appendix A – eSurvey

# Research Project: "Multi-stakeholders' preferences for the control of invasive terrestrial mammals on Minjerribah (North Stradbroke Island)".

As you are aware, I (Hernan Caceres, PhD Candidate at The University of Queensland) am conducting an analysis of terrestrial invasive species' (i.e. foxes and cats) management on Minjerribah (North Stradbroke Island) as part of my PhD thesis. During this process you have been identified as a key stakeholder/expert on this topic.

In the following questionnaire, we would like to get your thoughts on some of the key characteristics of Minjerribah (North Stradbroke Island) and the impacts that foxes and cats have on the ecological, social and economic values of the Island. Also, we would like to get your opinion about certain aspects of the proposed management strategies to control foxes and cats on Minjerribah (North Stradbroke Island).

Our project aims to identify and incorporate the various perspectives of the stakeholders' participating in the Straddie Pest Management Group and associated community organisations and members to assist in informing a control plan for foxes and feral cats on Minjerribah (North Stradbroke Island), including: time preferences, costs, probability of success of the proposed actions, probability of failure of the proposed actions, perceptions of environmental problems that may arise from this control plan, and any other comments relevant for improving the management actions to control foxes and cats on the Island.

With this, we expect to reduce the gaps regarding the expected outcomes of the management actions, timeframes, costs and other questions that may arise during management works, supporting the development of a unified management plan for these two invasive terrestrial mammal species.

This project is part of the Threatened Species Recovery Hub, Theme 4.2: Saving Species on Australian Islands (National Environmental Science Programme), which is funded through the Australian Government.

In implementing this activity I would like to acknowledge the Traditional Custodians of the Islands, waters and seas surrounding Minjerribah and pay my respects to Elders, past, present and future and hope this work is of benefit to the aspirations of the Quandamooka people.

\* Required







## **Participant Information Sheet**

You have been invited to take part in this study because you have been identified as a stakeholder with regards to fox and feral cat control (invasive alien species) on Minjerribah (North Stradbroke Island).

This research study has been classified as "low risk" by the University of Queensland Research and Innovation (UQR&I) (approval number: 2016001001), your participation is VOLUNTARY.

This form explains the purpose of the research and its procedures. It also describes what information about you will be obtained, how the information will be used and with whom it will be shared. Knowing what is involved will help you decide if you want to take part in the research.

Please read this information carefully, and ask questions about anything that you do not understand or wish to know more about, before deciding whether or not to take part in this survey. If you do not wish to take part, you do not have to.

If you wish to take part in the research project, you will be asked to sign the Participant Consent From. By signing it, you are telling us that you:

- Understand what you have read.
- Consent to take part in the research project.
- Consent to participate in the survey and the group meeting at your convenience.
- Consent for your personal information to be used as described

\*If you wish, you will be given/or sent at your convenience, a signed and dated copy of this Participant Information Sheet and Participant Consent Form to keep.

#### Purpose of the Study:

The purpose of this study is to inform and evaluate management plans and activities to control foxes and feral cats on North Stradbroke Island – Minjerribah.

#### Study Procedures:

To proceed with this study, please complete the survey online.

After we finish our research project, we will send you a second invitation to participate in a group meeting,

where we will present the results of the survey and incorporate any changes that participants think appropriate.

The survey is ANONYMOUS (please see the Anonymity Coding System, in section 4, for details on how your details will remain anonymous). We will use the Anonymity Coding System to follow up on updates or withdrawals from the study.

This survey is expected to take you between 15 and 20 minutes to complete, it contains 11 questions that will later be used in an analysis to assess the cost-effectiveness of fox and cat control.

#### Voluntary Participation/Right to Refuse or Withdraw:

There is no obligation for you to be involved in this study. If you do decide to participate:

- And later feel you no longer wish to be part of it, you may withdraw from the study at any time, without prejudice to any current or future involvement.
- And later you wish to change your answers you can do it at any time, without prejudice to any current or future involvement.
- No data will be stored if you decide to withdraw from the study.

  You may exit the survey by closing the training. You may exit the survey by closing the browser; no data will be recorded if you do this.

#### Confidentiality:

Your records relating to this study and any other information received will be kept strictly confidential. However staff participating in the survey, or other agencies authorised by law, may inspect the records related to the study

Your identity will not be revealed and your confidentiality will be protected in any reviews and reports of this study which may be published.

Researchers participating in the project will be notified of your participation in this study and of any relevant information in the conduct of the project.

#### Termination of the Study:

This research project may be stopped for a variety of reasons. These may include the following: decisions made in the project's best interest, participants are not available or any other reason that may directly affect the researchers, or the participants.

#### Investigators Benefits:

The Principal Researcher (PI) is not being remunerated to conduct this study. He will not allow a conflict of interest to compromise his position or this research study.

#### New Information Arising During the Project

During the research project, new information may become known to the researchers. If this occurs, you will be told about this new information. This new information may mean that you can no longer participate in this research. If this occurs, the person supervising the research will stop your participation. In all cases, you will be told by the person supervising the research, and he will inform about any changes and the implications for the data collected before that time.

#### Results of Project

Participants will be informed of the results when the research project is completed, by any of these three means, depending on the participant's preferences:

- Presentation to the Straddie Pest Management Group.
- Executive summary with the results of the study.
- Individual presentation. iii

Your study supervisor is required to provide you with all information regarding the nature and purpose of the research study, risks/benefits and the alternatives to undertake this study, and you should be given the opportunity to discuss these. It must be stated that you are free to:

- Withdraw anytime from the study.
- Withdraw your answers from the study at any time.
- If you do not participate you will not suffer any prejudice.

#### Advice and Information

Mr. Heman Caceres on h.caceres@uq.edu.au or 0403579345 (DVM | PhD candidate at The University of

This study adheres to the Guidelines of the ethical review process of The University of Queensland and the National Statement on Ethical Conduct in Human Research. Whilst you are free to discuss your participation in this study with project staff (contactable on h.caceres@uq.edu.au or (+61) 04 0357 9345, if you would like to speak to an officer of the University not involved in the study, you may contact the Ethics Coordinator on 3365 3924.

#### 10. Anonymity Coding System

The Anonymity Coding System will help us to track changes in case you wish to change your responses or withdraw after you submit the survey. The Anonymity Coding System will use the 2 first letters of the participant's mother's maiden name (e.g. Maria would be "MA") and the last 2 digits of the participant's birthday year (e.g. 1985 would be "85"), resulting in a code that looks like this: MA85.

1. I hereby declare: *	
Mark only one oval.	
I acknowledge I have read and understood the contents of this formula to the contents of	orm
I have NOT read and/or understood the contents of this form	Skip to question 1.

I hereby voluntarily consent to my involvement in the research project. I acknowledge that the nature, purpose and risks of the research project and alternatives to participation have been fully explained to my satisfaction by Mr. Hernan Caceres.

I have read the participant information sheet and I hereby consent to participate as part of the research project, understanding the details of the research aim, and survey procedure proposed and the anticipated length of time it will take, the frequency with which the procedure will be performed and an indication of any discomfort that may be expected have been explained to me.

- I freely agree to participate in this research project according to the conditions in the Participant Information Sheet which I confirm has been provided to me.
- I understand that my involvement in this study may not be of any direct benefit to me.
- I have been told that no information will be divulged to unauthorised third parties and the results will not be published so as to reveal my identity.
- I understand that I am free to withdraw from the study at any stage without prejudice to future participation. If I decide to withdraw from the study, I agree that the information collected about me up to the point when I withdraw may continue to be processed, unless I indicate something different.
- I am 18 years of age or over.
- I declare that all my questions have been answered to my satisfaction.
- I am aware that I may ask any further questions about the research study at any time.
- I have read, or have had read to me in a language in which I am fluent, and I understand the Participant Information Sheet, version 2, dated 21/08/2016.

Declaration by researcher\*:

2. I hereby declare: \*

Name of Researcher, Hernan Caceres.

An explanation of the research project, its procedures and outcomes has been given to the participant and I believe that the participant has all the information necessary to understand this research project.

Mark only one oval.
I consent to participate in this research study, and I voluntarily agree to give permission to the researchers to use my responses in their research project. Skip to question 3.
I don't want to participate in this research study  Skip to question 2.
Anonymity Coding System  To ensure an anonymous study we will use an Anonymity Coding System. This will help us to track changes in case you wish to change your responses or withdraw after you submit the survey. The Anonymity Coding System will use the 2 first letters of the participant's mother's maiden name (e.g. Maria would be "MA") and the last 2 digits of the participant's birthday year (e.g. 1985 would be "85"), resulting in a code that looks like this: MA85.
3. Please write your Participant's Anonymity Code
(e.g. Maria would be "MA") and the last 2 digits of the participant's birthday year (e.g. 1985 would be "85"), resulting in a code that looks like this: MA85.
4. Which of the following sectors best identifies you? *  Mark only one oval.
Community Group and/or Non-Governmental Organization (NGO)
Government agency
Private sector (e.g. industry, businesses)
Education (e.g. academia)
Other:
5. If you chose OTHER, which sector is the one that best identifies you?

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#### Minjerribah (North Stradbroke Island): Background

In order to standardise the information available for the survey, here we present some general information about the Island and its ecosystems.

Minjerribah, or North Stradbroke Island (NSI), is located ~30 km Southeast of Brisbane (Queensland, Australia). It is the second largest sand island in the world, and part of a larger group of sand islands that form Moreton Bay (27°30'S, 153°28'E), NSI forms part of the Eastern boundary of Moreton Bay. The Northernmost point is ~29 km from the mainland, while the Southernmost point is just 5 km away from Mainland. It is 32 km long and 11 km wide, with a total area of ~27,500 ha (or 285 km2).

#### HABITATS

Even though it consists almost entirely of sand, the island exhibits a wide range of HABITATS, which support a variety of flora and fauna. The eastern -or ocean-side consists of open beaches, frontal dunes and the Eighteen Mile Swamp, which is the largest wetland (~32.7km²) on the island, and located in the lowland area, between two large sand formations. The western side -Moreton Bay- is characterised by mangroves and tidal wetlands. Much of Minjerribah is formed by a series of dunes with north-westerly ridges, which rise to a maximum level of 219m (mount Hardgrave).

#### FAUNA:

Minjerribah is a biologically diverse and geologically complex ecosystem where many species of plants and animals coexist. It has a rich biodiversity which is specialised to the conditions on the Island. About 18 species of native mammals occur on the Island, these include 3 species of macropods (the swamp wallaby (Wallabia bicolor), the grey kangaroo (Macropus giganteus) and the rare agile wallaby (Macropus agilis). The echidna (Tachyglossus aculeatus) and koalas (Phascolarctos cirereus) are widely distributed but are uncommon, while the grey-headed flying fox(Pteropus poliocephalus) seasonally concentrates on flowering trees and fruit.

The Koala population on NSI, which is a species of social and cultural significance for the Quandamooka People, is considered a unique population, due to its separation from the mainland population for an estimated of 8000 years. Other species that inhabit the island are the Northern Brown Bandicoots, Agile Wallabies, and the Water Mouse, which are at risk of predation by foxes generally target terrestrial species between 35 and 5,000 grams), they can also prey on ground-nesting and -feeding bird species, lizards and frogs, including the endemic Acid frogs, which inhabit lakes and swamps. Foxes also attack ocean dwelling species, and can regularly predate on the nests of endangered Loggerhead and Green

Turtles summer months.

The impacts on the Island's biodiversity are also felt due to the pressure that feral cats have on the environment: when hunting, cats generally target species between 35 and 5,500 grams, and can also feed on gliders and birds nesting in trees and tree hollows.

#### VEGETATION:

The habitats on the Island are dominated by a mix of forest types. Extensive areas of the Island are covered by smaller banksias and acacias, ranging down to low heathlands with large ancient eucalypt forests and rainforest communities also being located in different areas.. The inland swamps are dominated by paper-barks. The Moreton Bay side of the Island has large areas of sand and intertidal flats, which support communities of seagrass and saltmarsh.

#### WATER BODIES:

Several freshwater water bodies exist throughout the Island, with some well-known lakes and lagoons being the Brown and Blue Lakes, Blakesley, Black Snake, Ibis, and Native Companion Lagoons, and Freshwater Creek (in the Eighteen mile Swamp). The waters of these freshwater bodies are often acidic, and support highly specialised animal life. There is also internationally significant groundwater values associated with Minjerribah's extensive aquifers that underpin much of the Islands hydrology as well as forming a key component of the South East Queensland Water Grid.

#### Questionnaire

This survey will ask for your opinion about different fox and cat control scenarios on Minjerribah (North Stradbroke Island). To complete the questionnaire you will need between 15 and 20 minutes. Your responses will be used to assess invasive species management on the island. The results of this survey will be discussed with you at a meeting that will be planned after all responses have been collected. In case you are unable to attend, you can request an individual meeting and a summary with the results.

\*Please answer the questions based on your opinion as an expert/stakeholder, there are no "correct" or "incorrect" answers, your opinion will help us to assess the proposed management scenarios. \*Please note the browser bar at the bottom of some of the questions.

We appreciate your participation in this questionnaire, thank you very much.

# 10. Q1. What is the significance of Minjerribah (North Stradbroke Island) to you? \* This significance should encompass environmental, social and economic values, to the extent that they are relevant. It can include public and private values for the island. A number of examples are given for each response Mark only one oval. ) International significance (e.g. Great Barrier Reef, Kakadu, Lord Howe Island, Tasmanian wilderness) National significance (e.g. The Gippsland Lakes, Ningaloo Reef, Great Ocean Road hinterland, The Coorong Wetlands) Very high state significance (e.g. Fitzgerald River National Park, Western Port Bay, Wilsons Promontory, Gunbower Island) ) High state significance (e.g. Ramsar wetland, national endangered species, regional valued ecosystems) Moderate state significance (e.g. A highly valued estuary, whole rivers (e.g. Loddon) Regional (catchment) significance (e.g. Important river, regional threatened species, significant and or creek)

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12. Q2. What do you think is the probability of eradicating foxes under: \*

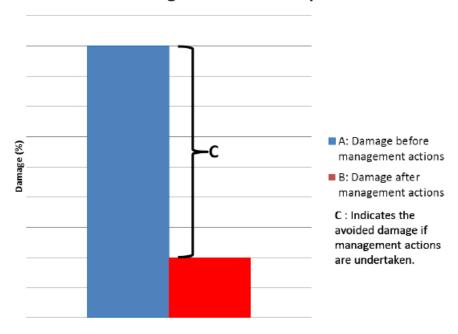
Mark only one oval per row.

Scenario 6

### Damage caused by invasive alien species

The damages caused by foxes and feral cats are grouped into environmental, economic and social aspects. Environmental impacts are the direct (e.g. predation) or indirect (e.g. competition for resources) impacts that the invasive species have on native wildlife; includes the effects on entire ecological communities (e.g. invasional meltdown), and changes in habitats and landscapes. Economic impacts are related to productivity losses (e.g. agricultural losses), the redirection of resources from other activities, and the costs of treating diseases (such as sarcoptic mange) carried by invasive species. Social impacts are related to distress (e.g. dead animals), diseases transmitted to humans and animals, decreased recreational values (e.g. it becomes hard to see native wildlife or changes in the landscape), invasive species can also prey upon domestic pets (e.g. aviary birds).

# Damage reduction example



15. Q5. If the works and actions specific to each scenario were implemented, in overall, how much damage (loss to environmental, social and/or economic values) would be avoided in Minjerribah (North Stradbroke Island)? Please refer to the example above when considering your response. \*

\*Please note the browser bar at the bottom of the alternatives Mark only one oval per row.

	Complete (100%)	Extremely high (91- 99%)	Very high (81- 90%)	Moderately high (71- 80%)	Slightly high (61- 70%)	Medium (41- 60%)	Slightly Low (31 - 40%)	Moderately low (21 - 30%)	Very low (11 - 20%)	Extremely low (1- 10%)	Null (0%)
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Actions/Scenarios	Oosed Co	Pro Scenario 2	posed cor		Scenario 4	Scenario 5		ario 6
Actions/Scenarios Target species		Pro	posed cor	ntrol scenarios icenario 3	Scenario 4	Scenario 5 nanagement of foxes	and cats	
Actions/Scenarios Target species Level of investment	Scenario 1	Pro Scenario 2 Only foxe	posed cor	ntrol scenarios icenario 3 rge increase	Scenario 4 Joint m	anagement of foxes	and cats	
Actions/Scenarios Target species Level of investment anagement objective	Scenario 1	Pro Scenario 2 Only foxe	pposed cor 2 S s rease La	ntrol scenarios icenario 3 rge increase Eradi	Scenario 4 Joint m Current	Moderate increase  2 campaigns p.a.	Large I	ncrease aigns p.a.
Actions/Scenarios Target species Level of investment anagement objective laiting campaigns (4 weeks each)	Scenario 1  Current	Scenario 2 Only foxe Moderate incr	pposed cor 2 S s rease La	ntrol scenarios icenario 3 rge increase Eradi	Scenario 4 Joint m Current cation	management of foxes Moderate increase	Large I	Increase aigns p.a r foxes;
Actions/Scenarios Target species evel of investment anagement objective saiting campaigns (4 weeks each) it density (baits/km²) tance between baiting	Scenario 1  Current  1 campaign p.a.  1.9	Pro Scenario 2 Only foxe Moderate incr 2 campaigns	s sease La	rge increase Eradi impaigns p.a.	Scenario 4 Joint m Current cation 1 campaign p.a.	Anagement of foxes Moderate increase  2 campaigns p.a.  5 for foxes; 50 for cats*	Large I	ncrease aigns p.a
Actions/Scenarios Target species Level of investment anagement objective saiting campaigns (4 weeks each)  it density (balts/km²) tance between baiting stations	Scenario 1  Current  1 campaign p.a.  1.9	Pro Scenario 2 Only foxe Moderate incr 2 campaigns	s sease La	rge increase Eradi mpaigns p.a.  10 ation every 50	Scenario 4 Joint m Current cation 1 campaign p.a. 1.9 0 metres of track	Anagement of foxes Moderate increase  2 campaigns p.a.  5 for foxes; 50 for cats*	Large I	Increase aigns p.a r foxes;
Actions/Scenarios Target species Level of investment anagement objective Saiting campaigns (4 weeks each) alt density (baits/km²) tance between baiting	Scenario 1  Current  1 campaign p.a.  1.9	Pro Scenario 2 Only foxe Moderate incr 2 campaigns	s sease La	rge increase Eradi mpaigns p.a.  10  De	Scenario 4 Joint m Current cation 1 campaign p.a. 1.9 0 metres of track	Anagement of foxes Moderate increase  2 campaigns p.a.  5 for foxes; 50 for cats*	Large I	Increase aigns p.a. r foxes;
Actions/Scenarios Target species Level of investment anagement objective Saiting campaigns (4 weeks each) sit density (baits/km²) tance between baiting stations Fumigation sooting + Spotlighting	Scenario 1  Current  1 campaign p.a.  1.9	Pro Scenario 2 Only foxe Moderate incr 2 campaigns 5	pposed core s s ease La p.a. 3 ca	rge increase Eradio impaigns p.a.  10 De Pre	Scenario 4 Joint m Current cation 1 campaign p.a. 1.9 0 metres of track	anagement of foxes Moderate increase  2 campaigns p.a.  5 for foxes; 50 for cats*	and cats Large   3 camps 10 for	ncrease aigns p.a r foxes; or cats*
Actions/Scenarios Target species Level of investment anagement objective Saiting campaigns (4 weeks each) alt density (baits/km²) tance between baiting stations Fumigation sooting + Spotlighting *For the same level	Scenario 1  Current  1 campaign p.a.  1.9	Pro Scenario 2 Only foxe Moderate incr 2 campaigns 5	pposed core s s rease La p.a. 3 ce 1 st	rge increase Eradi mpaigns p.a.  10  De Pre	Scenario 4  Joint m Current cation  1 campaign p.a.  1.9  0 metres of track ens sent	2 campaigns p.a. 5 for foxes; 50 for cats*	and cats Large   3 camps 10 for 100 for	increase aigns p.a r foxes; or cats*
Actions/Scenarios Target species Level of investment anagement objective saiting campaigns (4 weeks each)  it density (baits/km²) tance between baiting stations Fumigation  ooting + Spotlighting *For the same leve	Scenario 1  Current  1 campaign p.a.  1.9	Pro Scenario 2 Only foxe Moderate incr 2 campaigns 5	pposed core s s rease La p.a. 3 ca 1 st	rge increase Eradi Impaigns p.a.  10 De Pre equire 10 times	Scenario 4  Joint m Current cation  1 campaign p.a.  1.9  0 metres of track ens sent	2 campaigns p.a. 5 for foxes; 50 for cats*	and cats Large   3 camps 10 for 100 for	increase aigns p.a r foxes; or cats*
Actions/Scenarios Target species Level of investment anagement objective Saiting campaigns (4 weeks each)  and the density (baits/km²) tance between baiting stations Fumigation  sooting + Spotlighting *For the same level	Scenario 1  Current  1 campaign p.a.  1.9	Pro Scenario 2 Only foxe Moderate incr 2 campaigns 5	p.a. 3 cathering aching	rge increase Eradi Impaigns p.a.  10  Description every 50  Pre equire 10 times  e of the so lieved? *	Scenario 4  Joint m Current cation  1 campaign p.a.  1.9  0 metres of track ens sent es more baits than	2 campaigns p.a. 5 for foxes; 50 for cats*  s what is needed for	and cats Large   3 campu 10 for 100 for	increase aigns p.a r foxes; or cats*
Actions/Scenarios Target species Level of investment lanagement objective Baiting campaigns (4 weeks each)  alt density (baits/km²) stance between baiting stations Fumigation  *For the same level  4. Q10. What do y below will prev In this question, Cooperation by administrative, of	Scenario 1  Current  1 campaign p.a.  1.9  cou think is the different eradication, we would like other organisator political suppositional sup	Pro Scenario 2 Only foxe Moderate incr 2 campaigns 5  cat baiting car the chance to from bee you to thin ations response	posed core s s rease La p.a. 3 ca 1 st mpaigns re that one ing ach ik about nsible for	rge increase Eradi Impaigns p.a.  10  Pre Equire 10 time e of the so ieved? * the reliance or natural re	Scenario 4  Joint m Current cation 1 campaign p.a. 1.9 0 metres of track ens sent cial or politic ce of a succee	anagement of foxes Moderate increase  2 campaigns p.a.  5 for foxes; 50 for cats*  s  what is needed for cal situations of assful eradication agement. ii. Soc	and cats Large   3 camps 10 for 100 for	increase aigns p.a. r foxes; or cats*
Actions/Scenarios Target species Level of investment anagement objective laiting campaigns (4 weeks each)  It density (baits/km²) tance between baiting stations Fumigation  ooting + Spotlighting *For the same level Location of the same level In this question, Cooperation by	Current  1 campaign p.a.  1.9  2 cou think is the content of the c	Pro Scenario 2 Only foxe Moderate incr 2 campaigns   5  cat baiting car the chance to from be e you to thin ations respondent; iii. Pol	p.a. 3 ce  that one ing ach ik about nsible folicy chal	rge increase Eradi Impaigns p.a.  10  Pre Equire 10 time e of the so ieved? * the reliance or natural re nges that s	Scenario 4  Joint m Current cation 1 campaign p.a. 1.9 0 metres of track ens sent cial or politic ce of a succes esource mana support the ac	anagement of foxes Moderate increase  2 campaigns p.a.  5 for foxes; 50 for cats*  s  what is needed for cal situations of assful eradication agement. ii. Soc	and cats Large   3 camps 10 for 100 for	increase aigns p.a r foxes; or cats*
Actions/Scenarios Target species Level of investment anagement objective Saiting campaigns (4 weeks each)  It density (baits/km²) tance between baiting stations Fumigation  sooting + Spotlighting *For the same level  Q10. What do y below will prev In this question, Cooperation by administrative, of Mark only one of	Current  1 campaign p.a.  1.9  2 cou think is the content of the c	Pro Scenario 2 Only foxe Moderate incr 2 campaigns   5  cat baiting car the chance to from be e you to thin ations respondent; iii. Pol	p.a. 3 ce  that one ing ach ik about nsible folicy chal	rge increase Eradi Impaigns p.a.  10  Pre Equire 10 time e of the so ieved? * the reliance or natural re nges that s	Scenario 4  Joint m Current cation 1 campaign p.a. 1.9 0 metres of track ens sent cial or politic ce of a succes esource mana support the ac	anagement of foxes Moderate increase  2 campaigns p.a.  5 for foxes; 50 for cats*  s  what is needed for cal situations of asful eradication agement. ii. Soc ctions.	and cats Large   3 camps 10 for 100 for	ncrease eigns p.a r foxes; or cats*
Actions/Scenarios Target species Level of investment anagement objective Saiting campaigns (4 weeks each) alt density (baits/km²) tance between baiting stations Fumigation sooting + Spotlighting *For the same level 1. Q10. What do y below will prev In this question, Cooperation by administrative, of Mark only one of	Current  1 campaign p.a.  1.9  2 cou think is the content of the c	Pro Scenario 2 Only foxe Moderate incr 2 campaigns   5  cat baiting car the chance to from be e you to thin ations respondent; iii. Pol	p.a. 3 ce  that one ing ach ik about nsible folicy chal	rge increase Eradi Impaigns p.a.  10  Pre Equire 10 time e of the so ieved? * the reliance or natural re nges that s	Scenario 4  Joint m Current cation 1 campaign p.a. 1.9 0 metres of track ens sent cial or politic ce of a succes esource mana support the ac	anagement of foxes Moderate increase  2 campaigns p.a.  5 for foxes; 50 for cats*  s  what is needed for cal situations of asful eradication agement. ii. Soc ctions.	and cats Large   3 camps 10 for 100 for	ncrease aigns p.a r foxes; or cats*
Actions/Scenarios Target species Level of investment anagement objective Saiting campaigns (4 weeks each) It density (baits/km²) tance between baiting stations Fumigation sooting + Spotlighting "For the same level In this campaigns of the same level In this guestion, Cooperation by administrative, of Mark only one of Scenario 1 Scenario 2	Current  1 campaign p.a.  1.9  2 cou think is the content of the c	Pro Scenario 2 Only foxe Moderate incr 2 campaigns   5  cat baiting car the chance to from be e you to thin ations respondent; iii. Pol	p.a. 3 ce  that one ing ach ik about nsible folicy chal	rge increase Eradi Impaigns p.a.  10  Pre Equire 10 time e of the so ieved? * the reliance or natural re nges that s	Scenario 4  Joint m Current cation 1 campaign p.a. 1.9 0 metres of track ens sent cial or politic ce of a succes esource mana support the ac	anagement of foxes Moderate increase  2 campaigns p.a.  5 for foxes; 50 for cats*  s  what is needed for cal situations of asful eradication agement. ii. Soc ctions.	and cats Large   3 camps 10 for 100 for	ncrease ncrease aigns p.a r foxes; or cats*
Actions/Scenarios Target species Level of investment lanagement objective Baiting campaigns (4 weeks each) alt density (baits/km²) stance between baiting stations Fumigation hooting + Spotlighting *For the same leve  4. Q10. What do y below will prev In this question, Cooperation by administrative, of Mark only one of	Current  1 campaign p.a.  1.9  2 cou think is the content of the c	Pro Scenario 2 Only foxe Moderate incr 2 campaigns   5  cat baiting car the chance to from be e you to thin ations respondent; iii. Pol	p.a. 3 ce  that one ing ach ik about nsible folicy chal	rge increase Eradi Impaigns p.a.  10  Pre Equire 10 time e of the so ieved? * the reliance or natural re nges that s	Scenario 4  Joint m Current cation 1 campaign p.a. 1.9 0 metres of track ens sent cial or politic ce of a succes esource mana support the ac	anagement of foxes Moderate increase  2 campaigns p.a.  5 for foxes; 50 for cats*  s  what is needed for cal situations of asful eradication agement. ii. Soc ctions.	and cats Large   3 camps 10 for 100 for	ncrease eigns p.a r foxes; or cats*

Scenario 6

									g to)		
. Q11. How many y eradication under *Please note the b Mark only one ova	r <b>each s</b> rowser b	cenario oar at th	? See 1	Table 1	above *		. baiting	g or mo	onitoring	g) to ac	hieve
	1 year	2 years	3 years	4 years	5 years	7 years	10 years	More than 10 years	More than 15 years	than 20	It woul neve happ
Scenario 1											
Scenario 2											
Scenario 3											
Scenario 4											
Scenario 5											
Scenario 6											
nank you ver rticipants will be info ans, depending on t Straddie Pest Ma Executive summa Individual present	ormed of he partion nageme	the resi ipant's nt Grou	ults whe preferer p preser	en the re nces: ntation.	search				/ any of	these ti	nree
	iate any		nck or c is optio		its you	have or	n this su	ırvey, p	lease le	et us kn	ow

# ${\bf 1.2.\ Appendix\ B-Species\ of\ interest:\ Threatened\ species,\ Culturally\ relevant\ species,}$ and invasive species from Minjerribah

Scientific Name	Common Name	NCA	EPBC	End.	WS
Sousa sahulensis	Australian humpback dolphin	V		QAI	I
Balaenoptera musculus	blue whale	С	Е	QAI	
Megaptera novaeangliae	humpback whale	V	V	QAI	
Eubalaena australis	southern right whale	С	Е	QAI	
Dugong dugon	dugong	V		QAI	I
Xeromys myoides	water mouse	V	V	QAI	I
Pteropus poliocephalus	grey-headed flying-fox	С	V	QA	
Phascolarctos cinereus	koala	V	V	QA	
Lathamus discolor	swift parrot	Е	CE	QA	
Calyptorhynchus lathami lathami	glossy black-cockatoo (eastern)	V		QA	
Calidris canutus red knot		Е	Е	QAI	I
Calidris ferruginea	curlew sandpiper	Е	CE	QAI	I
Calidris tenuirostris	great knot	Е	CE	QAI	I
Limosa lapponica baueri	Western Alaskan bar-tailed godwit	V	V	QAI	I
Numenius madagascariensis	eastern curlew	Е	CE	QAI	I
Charadrius leschenaultii	greater sand plover	V	V	QAI	I
Charadrius mongolus	lesser sand plover	Е	Е	QAI	I
Thinornis cucullatus	hooded plover	С	V	VA	
Esacus magnirostris	beach stone-curlew	V		QAI	
Ardenna pacifica	wedge-tailed shearwater	V		QAI	
Halobaena caerulea	blue petrel	С	V	VU	
Macronectes giganteus	southern giant-petrel	Е	Е	QAI	
Macronectes halli	northern giant-petrel	V	V	VU	
Pterodroma leucoptera leucoptera	Gould's petrel (Australian subspecies)	С	Е	QAI	
Pterodroma neglecta	Kermadec petrel	С	V	QAI	
Diomedea exulans	wandering albatross	V	V	QAI	
Phoebetria fusca	sooty albatross	V	V	VU	
Thalassarche bulleri	Buller's albatross	V	V	VU	
Thalassarche carteri	Indian yellow-nosed albatross	V	V	QAI	
Thalassarche cauta	shy albatross	V	V	QAI	
Thalassarche chrysostoma	grey-headed albatross	V	Е	VU	
Thalassarche melanophris	black-browed albatross	SL	V	QAI	
Phaethon rubricauda	red-tailed tropicbird	V		QAI	
Acanthophis antarcticus	common death adder	V		QA	
Dermochelys coriacea	leatherback turtle	Е	Е	QAI	
Caretta caretta	loggerhead turtle	Е	Е	QAI	
Chelonia mydas	green turtle	V	V	QAI	
Eretmochelys imbricata	hawksbill turtle	Е	V	QAI	

Natator depressus	flatback turtle	V	V	QAI	
Litoria cooloolensis	Cooloola sedgefrog	NT		Q	I
Litoria freycineti	wallum rocketfrog	V		QA	
Litoria olongburensis	wallum sedgefrog	V	V	QA	I
Litoria sp. cf. cooloolensis (North Stradbroke Is population)	N.A.	NT		Q	
Crinia tinnula	wallum froglet	V		QA	I
Nannoperca oxleyana	Oxleyan pygmy perch	V	Е	QA	D
Acrodipsas illidgei	Illidge's ant-blue	V		QA	
Ornithoptera richmondia	Richmond birdwing	V		QA	
	Legend NCA				
	Status under the Nature Conservat	tion Act 1992)			
PE: Extinct in the wild					
E: Endangered V: Vulnerable					
NT: Near threatened					
C: Least concern					
SL: Special least concern					
P: Prohibited					
EX: Extinct  XW: Extinct in the wild  CE: Critically endangered  E: Endangered	Environment Protection and Biodi	<u> </u>			
** ** 1 11					
V: Vulnerable					
V: Vulnerable CD: Conservation dependent					
	End. (Endemicity)				
	(Endemicity)				
CD: Conservation dependent  Q: Queensland endemic - natur	(Endemicity)				
CD: Conservation dependent  Q: Queensland endemic - naturally or	(Endemicity) rally occurs in Queensland	nterstate and ove	erseas		
CD: Conservation dependent  Q: Queensland endemic - naturally of QAI: Not endemic to Australia	(Endemicity) rally occurs in Queensland ccurs in Queensland and interstate		erseas		
CD: Conservation dependent  Q: Queensland endemic - naturally of QAI: Not endemic to Australia	(Endemicity) rally occurs in Queensland ccurs in Queensland and interstate a - naturally occurs in Queensland, in lly occurs in Queensland and overse		erseas		
CD: Conservation dependent  Q: Queensland endemic - naturally of QA: Intranational - naturally of QAI: Not endemic to Australia QI: Regional endemic - natural	(Endemicity) rally occurs in Queensland ccurs in Queensland and interstate a - naturally occurs in Queensland, in lly occurs in Queensland and overse normally occurs interstate		erseas		
Q: Queensland endemic - naturally of QA: Intranational - naturally of QAI: Not endemic to Australia QI: Regional endemic - natural VA: Vagrant (Intranational) - revisive VU: Vagrant (Unknown)	(Endemicity) rally occurs in Queensland ccurs in Queensland and interstate a - naturally occurs in Queensland, in lly occurs in Queensland and overse normally occurs interstate ormally occurs overseas		erseas		
CD: Conservation dependent  Q: Queensland endemic - natural QA: Intranational - naturally of QAI: Not endemic to Australia QI: Regional endemic - natural VA: Vagrant (Intranational) - r VI: Vagrant (International) - r VU: Vagrant (Unknown) IA: Introduced (Intranational)	(Endemicity) rally occurs in Queensland ccurs in Queensland and interstate a - naturally occurs in Queensland, in lly occurs in Queensland and overse normally occurs interstate ormally occurs overseas - naturalised from interstate		erseas		
CD: Conservation dependent  Q: Queensland endemic - natural QA: Intranational - naturally of QAI: Not endemic to Australia QI: Regional endemic - natural VA: Vagrant (Intranational) - no VI: Vagrant (International) - no VU: Vagrant (Unknown) IA: Introduced (Intranational) - II: Introduced (International) -	(Endemicity) rally occurs in Queensland ccurs in Queensland and interstate a - naturally occurs in Queensland, in lly occurs in Queensland and overse normally occurs interstate ormally occurs overseas - naturalised from interstate naturalised from overseas		erseas		
Q: Queensland endemic - natural QA: Intranational - naturally of QAI: Not endemic to Australia QI: Regional endemic - natural VA: Vagrant (Intranational) - review VI: Vagrant (International) - review VI: Vagrant (Unknown)  IA: Introduced (Intranational) - II: Introduced (International) - IU: Introduced - unknown original value of the variable of the variable of the variable of the value of	(Endemicity) rally occurs in Queensland ccurs in Queensland and interstate a - naturally occurs in Queensland, in lly occurs in Queensland and overse normally occurs interstate ormally occurs overseas - naturalised from interstate naturalised from overseas in		erseas		
CD: Conservation dependent  Q: Queensland endemic - natural QA: Intranational - naturally of QAI: Not endemic to Australia QI: Regional endemic - natural VA: Vagrant (Intranational) - no VI: Vagrant (International) - no VU: Vagrant (Unknown) IA: Introduced (Intranational) - II: Introduced (International) -	(Endemicity) rally occurs in Queensland ccurs in Queensland and interstate a - naturally occurs in Queensland, in lly occurs in Queensland and overse normally occurs interstate ormally occurs overseas - naturalised from interstate naturalised from overseas in ve		erseas		
Q: Queensland endemic - natural QA: Intranational - naturally of QAI: Not endemic to Australia QI: Regional endemic - natural VA: Vagrant (Intranational) - review VI: Vagrant (International) - review VI: Vagrant (Unknown)  IA: Introduced (Intranational) - II: Introduced (International) - IU: Introduced - unknown original value of the variable of the variable of the variable of the value of	(Endemicity) rally occurs in Queensland ccurs in Queensland and interstate a - naturally occurs in Queensland, in lly occurs in Queensland and overse normally occurs interstate ormally occurs overseas - naturalised from interstate naturalised from overseas in		erseas		

Culturally and Local relevant species of Minjerribah*				
Scientific name	Common name	Group		
Phascolartcos cinereus	Koala	Mammalia		
Macropus giganteus	Eartern grey kangaroo	Mammalia		
Pteropus poliocephalus	Grey-headed flying fox	Mammalia		
Xeromys myoides	Water mouse	Mammalia		
Tachyglossus aculeatus	Short-beaked echidna	Mammalia		
Isoodon macrourus	Northern brown bandicoot	Mammalia		
Megaptera novaeangliae	Humpback whale	Mammalia		
Balaenoptera musculus	blue whale	Mammalia		
Dugong dugon	Dugongs	Mammalia		
Tursiops aduncus	Indo-Pacific Bottlenose dolphin	Mammalia		
Sousa sahulensis	Australian Humpback dolphin	Mammalia		
Haliastur indus	Brahminy kite	Aves		
Haliaeetus leucogaster	White-bellied sea eagle	Aves		
Calyptorhynchus lathami	Glossy black cockatoo	Aves		
Trichoglossus moluccanus	Rainbow lorikeet	Aves		
Esacus magnirostris	Beach stone-curlew	Aves		
Burhinus grallarius	Stone-curlews	Aves		
Ninox boobook	Southern boobook	Aves		
Podargus strigoides	Tawny frogmouth	Aves		
Aegotheles cristatus	Australian Owlet-Nightjar	Aves		
Hirundapus caudacutus	White-thoated needletail	Aves		
Dacelo novaeguineae	Laughing kookaburra	Aves		
Todiramphus macleayii	Forest kingfisher	Aves		
Todiramphus sanctus	Sacred kingfisher	Aves		
Caretta caretta	Loggerhead turtle	Reptilia		
Chelonia mydas	Green turtle	Reptilia		
Varunus varius	Lace monitor	Reptilia		
Morelia spilota	Carpet python	Reptilia		
Dendrelaphis puntulata	Green tree snake	Reptilia		
Aconthophis antarcticus	Death Adder	Reptilia		
Pseudechis porphyriacus	Red-bellies black snake	Reptilia		
Chelodina longicollis	Eastern long-necked turtle	Reptilia		
Chelonia expansa	Broad-shelled river turtle	Reptilia		
Crinia tinnula	Wallum froglet	Amphibia		
Litoria olongburensis	Wallum sedgefrog	Amphibia		
Litoria fallax	Eastern sedgefrog	Amphibia		
Litoria freycineti	Wallum rocketfrog	Amphibia		
Litoria cooloolensis	Cooloola sedgefrog	Amphibia		

	Invasive species of Minjerribah										
Scientific name	Common name	Status	Group								
Felis catus	Domestic cat	Confirmed	Mammalia								
Canis familiaris	Domestic dog	Confirmed	Mammalia								
Vulpes vulpes	Red fox	Confirmed	Mammalia								
Lepus capensis	Cape Hare	Confirmed	Mammalia								
Mus musculus	House Mouse	Confirmed	Mammalia								
Rattus rattus	Black rat	Confirmed	Mammalia								
Sus scrofa	Wild Boar/Pig	Suspected	Mammalia								
Acridotheres tristis	Common Myna	Confirmed	Aves								
Anas platyrhynchos	Mallard	Confirmed	Aves								
Carduelis carduelis	European Goldfinch	Confirmed	Aves								
Columba livia	Rock Dove	Confirmed	Aves								
Passer domesticus	House Sparrow	Confirmed	Aves								
Sturnus vulgaris	Common Starling	Confirmed	Aves								
Hemidactylus frenatus	Common House Gecko	Confirmed	Reptilia								
Bufo marinus	Cane toad	Confirmed	Amphibia								

# 1.3. Appendix C – Detailed description of scenarios

		Detailed por	tfolio of actions									
	Scenarios											
Actions	1	2	3	4	5	6						
Target species	R	ted fox (Vulpes vulpe	es)	Red fox (Vulpe:	s vulpes) and Feral c	ats (Felis catus)						
Investment level	Low	Medium	High	Low	Medium	High						
Intensity	Low	Medium	High	Low	Medium	High						
Campaigns (4 weeks/campaign)	1 p.a.	2 p.a.	3 p.a.	1 p.a.	2 p.a.	3 p.a.						
Bait density (baits/km2) <sup>1</sup>	2 5		10	20	50	100						
Inter-station distance		1 stati	on every 500 meters	of tracks (or 1 station	n/km2)	•						
Den search			Fumigat	ion (CO)								
Spotlighting and shooting			Pres	sent								
Trapping			Pres	sent								
Management objective			Eradi	cation								
Total cost (AU\$m) <sup>2</sup>	\$3.48	\$4.08	\$5.33	\$4.03	\$5.84	\$7.76						

<sup>&</sup>lt;sup>1</sup> Feral cat baiting programmes require ten times more baits than those that target European red foxes in order to maintain the same level of effectiveness <sup>2</sup> The total cost includes the fixes and marginal costs of the 4 phases of the project (i.e. planning, implementation, monitoring, and long-term monitoring)

# 1.4. Appendix D Cost estimates report

	Species management stage													
		Planning (AUS)		<u>Im</u>	plementation (AU	J <b>S)</b>	<u>I</u>							
	Fixed	Marginal		Fixed	Mar	ginal	Fixed	Mar	ginal					
Scenarios	Capital assets	<u>Labour</u>	<b>Consumables</b>	Capital assets	<u>Labour</u>	<b>Consumables</b>	Capital assets	<u>Labour</u>	<b>Consumables</b>	Total (AU\$)				
1	\$100,474.95	\$724,173.08	\$110,996.44	\$1,987.50	\$740,076.92	\$79,221.62	\$1,325.00	\$319,538.46	\$34,465.37	\$2,112,259.34				
2	\$126,699.90	\$922,576.92	\$136,828.10	\$20,475.00	\$889,846.15	\$169,846.17	\$2,650.00	\$406,403.85	\$36,938.81	\$2,712,264.90				
3	\$138,674.85	\$1,437,192.31	\$191,831.37	\$5,962.50	\$1,442,538.46	\$374,360.05	\$3,975.00	\$610,153.85	\$41,381.14	\$4,246,069.51				
4	\$119,724.95	\$922,576.92	\$137,552.74	\$1,987.50	\$889,846.15	\$148,090.61	\$1,325.00	\$406,403.85	\$39,560.51	\$2,667,068.23				
5	\$140,199.90	\$1,437,192.31	\$220,091.60	\$87,475.00	\$1,442,538.46	\$486,672.44	\$2,650.00	\$610,153.85	\$44,137.21	\$4,471,110.76				
6	\$174,924.85	\$1,942,865.38	\$330,482.97	\$105,962.50	\$1,978,500.00	\$1,000,817.80	\$3,975.00	\$808,230.77	\$45,782.53	\$6,391,541.79				

All values are expressed in Australian dollars (AU\$) (checked in January 2018)

Long-term monitoring scheme (LTMSc) - Long-term funding for 15 years of monitoring												
Fixed (AU\$)	Margina	(AU\$)										
Capital assets	<u>Labour</u>	<u>Consumables</u>	Total (p.a.)									
\$795.00	\$81,153.85	\$91,086.49										
All values are expressed in Australian dollars (AU\$) (checked in January 2018)												

# 1.5. Appendix E – Detailed INFFER BCR analysis

	Value (V)	Impact of works (W)	Technical feasibility (F)	Adoption (A)	Adverse adoption (B)	Socio- political risks (P)	Long-term funding (G)	Time- lag (L)	Discount factor (DFb)	Up-front cost (C)	Maintenance cost (M)	Present value of M (PV)	Benefit:Cost Ratio		Overall ranking
Scenarios	V (0-100)	W (0-1)	F (0-1)	A (0-1)	B (0-1)	P (0-1)	G (0-1)	L (years)	DFb (eq)	C (AUD\$Million)	M (AUD\$Million/year)	PV (AUD\$Million)	BCR (index)	(index)	(index)
Fox Low investment	1	0.21	0.95	1	0.95	0.85	0.70	7	0.71	\$2.11	\$0.09	\$0.97	0.52	3	3
Fox Medium investment	1	0.41	0.95	1	0.95	0.88	0.70	7	0.71	\$2.71	\$0.09	\$0.97	0.88	2	2
Fox High investment	1	0.61	0.95	1	0.95	0.85	0.70	3	0.86	\$3.96	\$0.09	\$0.97	1.15	1	1
Joint Low investment	1	0.21	0.95	1	0.7	0.85	0.50	30	0.23	\$2.67	\$0.09	\$0.97	0.08	3	6
Joint Medium investment	1	0.61	0.95	1	0.7	0.85	0.50	10	0.61	\$4.47	\$0.09	\$0.97	0.39	1	4
Joint High investment	1	0.61	0.95	1	0.7	0.85	0.50	10	0.61	\$6.39	\$0.09	\$0.97	0.29	2	5

		Impact of works (W)	Technical feasibility (F)	Adoption (A)	Adverse adoption (B)	Socio- political risks (P)	Long-term funding (G)	Time- lag (L)	Discount factor (DFb)	Up-front cost (C)	Maintenance cost (M)	Present value of M (PV)	Benefit:Cost Ratio		Overall ranking
Scenarios	V (0-100)	W (0-1)	F (0-1)	A (0-1)	B (0-1)	P (0-1)	G (0-1)	L (years)	DFb (eq)	C (AUD\$Million)	M (AUD\$Million/year)	PV (AUD\$Million)	BCR (index)	(index)	(index)
Fox Low investment	50	0.21	0.95	1	0.95	0.85	0.70	7	0.71	\$2.11	\$0.09	\$0.97	25.96	3	3
Fox Medium investment	50	0.41	0.95	1	0.95	0.88	0.70	7	0.71	\$2.71	\$0.09	\$0.97	43.94	2	2
Fox High investment	50	0.61	0.95	1	0.95	0.85	0.70	3	0.86	\$3.96	\$0.09	\$0.97	57.28	1	1
Joint Low investment	50	0.21	0.95	1	0.7	0.85	0.50	30	0.23	\$2.67	\$0.09	\$0.97	3.77	3	6
Joint Medium investment	50	0.61	0.95	1	0.7	0.85	0.50	10	0.61	\$4.47	\$0.09	\$0.97	19.44	1	4
Joint High investment	50	0.61	0.95	1	0.7	0.85	0.50	10	0.61	\$6.39	\$0.09	\$0.97	14.37	2	5

	Value (V)	Impact of works (W)	Technical feasibility (F)	Adoption (A)	Adverse adoption (B)	Socio- political risks (P)	Long-term funding (G)		Discount factor (DFb)	Up-front cost (C)	Maintenance cost (M)	Present value of M (PV)	Benefit:Cost Ratio		Overall ranking
Scenarios	V (0-100)	W (0-1)	F (0-1)	A (0-1)	B (0-1)	P (0-1)	G (0-1)	L (years)	DFb (eq)	C (AUD\$Million)	M (AUD\$Million/year)	PV (AUD\$Million)	BCR (index)	(index)	(index)
Fox Low investment	15	0.21	0.95	1	0.95	0.85	0.70	7	0.71	\$2.11	\$0.09	\$0.97	7.79	3	3
Fox Medium investment	15	0.41	0.95	1	0.95	0.88	0.70	7	0.71	\$2.71	\$0.09	\$0.97	13.18	2	2
Fox High investment	15	0.61	0.95	1	0.95	0.85	0.70	3	0.86	\$3.96	\$0.09	\$0.97	17.19	1	1
Joint Low investment	15	0.21	0.95	1	0.7	0.85	0.50	30	0.23	\$2.67	\$0.09	\$0.97	1.13	3	6
Joint Medium investment	15	0.61	0.95	1	0.7	0.85	0.50	10	0.61	\$4.47	\$0.09	\$0.97	5.83	1	4
Joint High investment	15	0.61	0.95	1	0.7	0.85	0.50	10	0.61	\$6.39	\$0.09	\$0.97	4.31	2	5