

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 Form. 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.

1. 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.

2. 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.

3. 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:

- i. 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.
- ii. And later you wish to change your answers you can do it at any time, without prejudice to any current or future involvement.
- iii. No data will be stored if you decide to withdraw from the study.
- iv. You may exit the survey by closing the browser; no data will be recorded if you do this.

4. 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.

5. 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.

6. 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.

7. 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.

8. 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:

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

8. Consent

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.

9. Advice and Information

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

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 form
- 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*:

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.

2. I hereby declare: *

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?

6. How many years of experience do you have working with Invasive Species *

Please remember, this is an anonymous survey, no data will be shared, this question just aims to assess your own perception.

Mark only one oval.

- Less than 1
- Between 1 and 3
- Between 3 and 5
- More than 5

7. How would you rate your knowledge regarding invasive species management? *

Please remember, this is an anonymous survey, no data will be shared, this question just aims to assess your own perception.

Mark only one oval.

- 1 2 3 4 5
-
- Comprehensive Uncomprehensive
-

8. What is the most important reason to be involved in feral animal management on Minjerribah (North Stradbroke Island)?

Mark only one oval.

- Statutory obligation or legal obligation
- Protection of biodiversity
- Economic loss
- Traditional owners values
- Other: _____

9. If you chose OTHER, which is your most important reason to be involved in feral animal management on Minjerribah (North Stradbroke Island)?

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 (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 wetland)
- Local significance (e.g. A locally valued wetland or creek)

11. Please describe the reasons for your response to Question 1.

25. If you chose OTHER in Q10, what do you think is the risk that the scenarios will fail to achieve the management objective? (please specify which scenario are you referring to)

26. Q11. How many years would this project require funding (e.g. baiting or monitoring) to achieve eradication under each scenario? See Table 1 above *

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

	1 year	2 years	3 years	4 years	5 years	7 years	10 years	More than 10 years	More than 15 years	More than 20 years	It would never happen
Scenario 1	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Scenario 2	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Scenario 3	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Scenario 4	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Scenario 5	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Scenario 6	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

27. Please describe the reasons for your responses to Q11?

Thank you very much for completing this survey.

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:

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

28. We would appreciate any feedback or comments you have on this survey, please let us know your thoughts, thank you (*this is optional).

1.2. Appendix B – Species of interest: Threatened species, Culturally relevant species, and invasive species from Minjerribah

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

<i>Natator depressus</i>	flatback turtle	V	V	QAI	
<i>Litoria cooloolensis</i>	Cooloola sedgefrog	NT		Q	I
<i>Litoria freycineti</i>	wallum rocketfrog	V		QA	
<i>Litoria olongburensis</i>	wallum sedgefrog	V	V	QA	I
<i>Litoria sp. cf. cooloolensis</i> (North Stradbroke Is population)	N.A.	NT		Q	
<i>Crinia tinnula</i>	wallum froglet	V		QA	I
<i>Nannoperca oxleyana</i>	Oxleyan pygmy perch	V	E	QA	D
<i>Acrodipsas illidgei</i>	Illidge's ant-blue	V		QA	
<i>Ornithoptera richmondia</i>	Richmond birdwing	V		QA	

Legend

NCA

(Status under the Nature Conservation Act 1992)

PE: Extinct in the wild

E: Endangered

V: Vulnerable

NT: Near threatened

C: Least concern

SL: Special least concern

P: Prohibited

EPBC

(Status under the Environment Protection and Biodiversity Conservation Act 1999)

EX: Extinct

XW: Extinct in the wild

CE: Critically endangered

E: Endangered

V: Vulnerable

CD: Conservation dependent

End.

(Endemicity)

Q: Queensland endemic - naturally occurs in Queensland

QA: Intranational - naturally occurs in Queensland and interstate

QAI: Not endemic to Australia - naturally occurs in Queensland, interstate and overseas

QI: Regional endemic - naturally occurs in Queensland and overseas

VA: Vagrant (Intranational) - normally occurs interstate

VI: Vagrant (International) - normally occurs overseas

VU: Vagrant (Unknown)

IA: Introduced (Intranational) - naturalised from interstate

II: Introduced (International) - naturalised from overseas

IU: Introduced - unknown origin

U: Unknown endemicity - native

WS

(Wetland Status)

I: Wetland indicator species

Culturally and Local relevant species of Minjerribah*

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

Invasive species of Minjerribah

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

1.3. Appendix C – Detailed description of scenarios

Detailed portfolio of actions						
Actions	Scenarios					
	1	2	3	4	5	6
Target species	Red fox (<i>Vulpes vulpes</i>)			Red fox (<i>Vulpes vulpes</i>) and Feral cats (<i>Felis catus</i>)		
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/km ²) ¹	2	5	10	20	50	100
Inter-station distance	1 station every 500 meters of tracks (or 1 station/km ²)					
Den search	Fumigation (CO)					
Spotlighting and shooting	Present					
Trapping	Present					
Management objective	Eradication					
Total cost (AU\$m) ²	\$3.48	\$4.08	\$5.33	\$4.03	\$5.84	\$7.76

¹ 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
² 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

Scenarios	Species management stage									Total (AUS)
	Planning (AUS)			Implementation (AUS)			Monitoring (AUS)			
	Fixed	Marginal		Fixed	Marginal		Fixed	Marginal		
	Capital assets	Labour	Consumables	Capital assets	Labour	Consumables	Capital assets	Labour	Consumables	
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 (AUS)	Marginal (AUS)		(AUS)
Capital assets	Labour	Consumables	Total (p.a.)
\$795.00	\$81,153.85	\$9,137.64	\$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	Internal ranking	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)
<i>Fox Low investment</i>	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
<i>Fox Medium investment</i>	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
<i>Fox High investment</i>	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
<i>Joint Low investment</i>	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
<i>Joint Medium investment</i>	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
<i>Joint High investment</i>	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

	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	Internal ranking	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)
<i>Fox Low investment</i>	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
<i>Fox Medium investment</i>	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
<i>Fox High investment</i>	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
<i>Joint Low investment</i>	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
<i>Joint Medium investment</i>	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
<i>Joint High investment</i>	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)	Time-lag (L)	Discount factor (DFb)	Up-front cost (C)	Maintenance cost (M)	Present value of M (PV)	Benefit:Cost Ratio	Internal ranking	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)
<i>Fox Low investment</i>	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
<i>Fox Medium investment</i>	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
<i>Fox High investment</i>	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
<i>Joint Low investment</i>	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
<i>Joint Medium investment</i>	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
<i>Joint High investment</i>	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