

National Environmental Science Program (NESP) Northern Australian Hub



What is the NESP Northern Hub?

- National Environmental Science Program (NESP)
 - Funded through the Department of the Environment & Energy (Canberra)
 - The projects run until 2020
- Northern Australian Environmental Resources Hub
 - Research to support **sustainable** development in northern Australia







Focus regions



NESP research projects and participants

Project		Participant Groups
1.3.3	Environmental Flows	BDAC, GAC, WAC, Y-Martuwarra, & possibly Noonkanbah,
1.5	Indigenous Water Requirements in the Fitzroy Catchment	BDAC GAC, WAC, YAK, Kija, Jaru, Warrwa, Wilonggin & possibly Noonkanbah
1.6	Participatory scenario planning	All of catchment & possibly Noonkanbah
2.6	Passionfruit vine	BDAC only
3.5	Bilby studies	Jaru, GAC, YAC, Karajarri, WAC, & possibly Noonkanbah
5.3	Benefits & knowledge in Indigenous land management	All of catchment & possibly Noonkanbah
5.4	Building planning & decision making skill for Indigenous land managers	All of catchment & possibly Noonkanbah

Project 1.3.3 Environmental water requirements for the Fitzroy River Catchment

Who	What the project is about
 	<p>Understand more about the important fish and plant species on river country</p>
 	<p>Measure the food sources for different fish species through the seasons</p>
	<p>Measure how much water is needed to support fish habitat</p>
	<p>Measure where trees get water from at the end of the dry season</p> <p>Describe where different plant species are and how much water is there</p>

1.3.3 Project Activities

- October 2017: Pilot study for fish and river plants
- March 2018: Wet season fish and algae sampling on floodplains
- Dry season 2018: Data collection to determine fish habitat requirements, movement and food sources, and the water sources and habitat requirements for river and floodplain plants



Project 1.5 Indigenous water requirements for water planning in the Fitzroy River Catchment



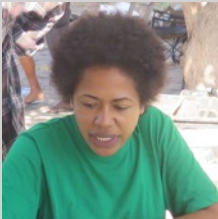
Who	What the project is about
	<p>Looking at the link between important places, species and activities on river country and water flows through the seasons</p>
<p>Sarah Laborde</p> 	<p>Understanding TOs' objectives and values for future management of water on country</p>
<p>Sue Jackson</p>	 <p><i>Snake Creek in Nyikina country</i></p>

1.5 Project Activities

- Review of existing information (e.g. from FitzCAM, Track, Healthy Country plans, etc.)
- Meeting with PBCs to get approval and guidance for the research
- On and off-country interviews with Nyikina-Mangala, Bunuba, Yi-Martuwarra and Gooniyandi TOs



Project 5.4: Showing and Sharing Knowledge of the Fitzroy River Catchment

Who	What the project is about
 Ro Hill	Looking at how Indigenous people talk about the ways they manage country.
 Nat Raisbeck-Brown	Making a 3-dimensional model of the catchment and allow people to talk about how the landscape makes sense to them
 Pethie Lyons	Making an influence (power) map of how groups of people (organisations) in the catchment are connected

5.4 Project Activities

- Planning meeting to co-design the project with Indigenous groups and researchers
- Second Workshop bringing people together to:
 - construct 3D model of the catchment
 - introduce influence mapping to look at a common goal decided by the group



*Working with the interactive projector
Co-planning workshop July 2017*

5.4 Project Activities for 2018

- **Third Workshop** to:
 - use the 3D model and an interactive projector to show and share the information that participants want to discuss
 - use the influence map to support participants' aspirations
- **Fourth Workshop** use the 3D model to look at future scenarios
- **Fifth Workshop** to:
 - support Traditional Owners to present their main findings from the project to others
 - Co-produce relevant information products in Kimberley Kriol





*Influence mapping workshop,
Fitzroy Crossing Dec 2017*

*Fitzroy Crossing Students building
the 3-D model Fitzroy Crossing Dec
2017*



Project 1.6. Planning for sustainable development

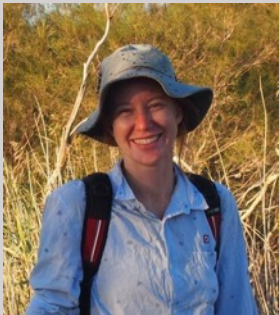
Who	What the project is about	How they want to work with you
 <p>Jorge Alvarez Romero</p>	Explore possible futures for the Fitzroy catchment	One-to-one meetings to discuss the project and obtain feedback
	<p>Examine different development options</p> <p>Working together to better understand the situation and plan ahead</p> <p>Explore the outcomes of alternative futures</p>	<p>Scenario planning – three stages</p> <p>Interviews (Mar) Collect views of team members</p> <p>Scenario workshops (May-Oct) Discuss development options Imagine alternative futures Create maps of scenarios</p> <p>Explore possible outcomes (Dec) Joint workshop with CSIRO using the tools (3D model) to explore scenarios</p>
 <p>Milena Kim</p>		

Project 5.3: Multiple benefits & knowledge systems of Indigenous land & sea management programs (ILSMPs) – economic perspectives

What the project is about



Natalie Stoeckl



Jane Addison

Indigenous Land & Sea Management Programs (ILSMPs) generate ecological benefits

They also generate co-benefits such as *health, social, cultural, political and economic benefits*

There is a risk that more money would be given to programs or activities that generate the most easily measured benefits, not necessarily those that generate most benefits.

Aim

To improve our understanding of co-benefits of ILSMPs

How

Looking at different benefits for different groups of people

With many thanks to our Fitzroy Catchment partner organisations: Walalalkoo PBC (Nykina-Mangala), Bunuba Dawangarri Aboriginal Corporation, Gooniyandi Aboriginal Corporation, and the Yi-Martuwarra claimants

5.3 Project Activities

2017:

- Desktop study about the benefits of ILSMP
- Interviews about self satisfaction and well being with Gooniyandi, Bunuba, Yi-Martuwarra and Nyikina people. Celia and Emile Boxer and Hansen Boxer worked with the researchers

2018:

- Revisit Fitzroy communities (April 21 – May 2) to:
 - Discuss key messages from interview data
 - Discuss ways of ‘reporting back’ to communities

5.3 Project activities for 2018

- Focus group discussions with ‘leaders’ from each group, to learn more about:
 - Long term aspirations of the group
 - Way in which ILSMPs do (or do not) contribute to those long term aspirations
- Visit Canberra (May 29 – June 2) to present preliminary results; accompanied by 2 representatives from the Fitzroy, and 2 from Ewamian
- First ensure people are happy for us to tell PM&C and DoEE about what we are finding

Research agreements

Four groups have now approved and / or signed these agreements

These cover:

- Intellectual property
- Partnerships and benefit sharing
 - Shared interests, skills development or employment
- Managing access to sites
- Reporting back, publishing and access to results
- Data sharing and access

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