North West Shelf

## JOINT ENVIRONMENTAL MANAGEMENT STUDY

#### Dear Community Member,

You are being asked to help in the environmental management of the North West Shelf waters – the coastal waters from Exmouth to Port Hedland. You can help by having your say as part of the community consultation process conducted by the Department of Environmental Protection and the Commonwealth Scientific and Industrial Research Organisation (CSIRO).

Just complete the attached survey, which will take you approximately 30 - 45 minutes, to enable us to understand the community values and aspirations for the North West Shelf marine area.

### PLEASE BE ASSURED THAT YOUR INPUT WILL REMAIN CONFIDENTIAL.

Your views are important and to ensure they are considered please complete the survey by the closing date, **30<sup>TH</sup> SEPTEMBER 2001** and post to: **PO Box 658, KARRATHA WA 6714**, or you can fax your completed survey to Tonia on: 9185 6790.

Alternatively you may wish to complete and submit the survey on our web page: www.marine.csiro.au/nwsjems/index.html

By completing the survey, you also have the chance of winning a trip for two to Tasmania", the Apple Isle, which includes:

Two return tickets flying ANSETT from Karratha to Tasmania One week fully paid accommodation in beautiful Launceston One week free hire car Complimentary Tour of CSIRO Marine Research Laboratories in Hobart.

Just imagine, you could be enjoying an autumn break in one of Australia's most scenic states! The winner will be contacted and announced in local newspapers by the  $31^{\alpha}$  October 2001.

The NWSJEMS is proudly supported by Ansett Australia 'Absolutely' and Tas Vacations 'Tasmania's Largest Independent Travel Specialist'.

\* some conditions apply.

## About the study

The North West Shelf Joint Environmental Management Study is a joint initiative between Western Australia and CSIRO Marine Research. The study officially commenced in June 2000.

The study area extends from the coast to the 200-metre depth contour, from Exmouth to Port Hedland. This is an area of 110,000 square kilometers. It does not include the Ningaloo Marine Park.

The major objective of the study is to gather as much information about the region as possible and to use it in combination with models of the marine ecosystem. This will help to predict the impacts of natural events and human

activities on the North West Shelf. Natural events include tropical cyclones, coral bleaching and events related to the effects of El-Nino, while human activities include fishing, oil and gas exploration and production, mineral processing, recreation and tourism.

The information will be combined with environmental, economic and

North Archipelago Hedland West Cape of Karratha

social objectives to develop a computer system that will enable the evaluation of existing and proposed management strategies for the many uses of the North West Shelf. This system will assist in the development of a more integrated approach to planning and management of the North West Shelf region with the goal of achieving ecologically sustainable development.

A collaborative approach to integrated management is essential to balancing competing uses and avoiding conflict. This will provide a holistic framework for future decisions about uses of the marine ecosystem.

Critical to the study is information from the community

about development options for the North West Shelf environment. Therefore, the values the community places on the environment and economic development, as well as their components, are an important part of the study.

The community consultation process will help to achieve this.

#### FURTHER INFORMATION ABOUT THE STUDY IS AVAILABLE FROM:

Web Pages: http://www.marine.csiro.au/nwsjems/index.html http://epagate.environ.wa.gov.au Tonia Swetman - Cognito Consulting

Ph: (08) 9185 6790 Email: cognito@kisser.net.au

Dr Chris Fandry - WA Department of Environmental Protection Ph: (08) 9222 7019 Email: fandry@environ.wa.gov.au

## JOINT ENVIRONMENTAL MANAGEMENT STUDY

I. Name: (essential to enter competition)	
2. Phone Number and/or Postal Address:	
3. Email Address:	
4. Are you of Indigenous descent? (please tick $\checkmark$ one box ONLY)	Yes No

5. Where do you live, or live closest? (please tick  $\checkmark$  one box ONLY)

Exmouth	Onslow	Roebourne
Dampier	Point Samson	Wickham
Karratha	Port Hedland	Other (list)

#### 6. In answering this survey, who do you best represent? (please tick 🗸 one box ONLY)



7. Which of the following recreational activities do you do regularly – or would like to do regularly - in or around the study area? (please tick  $\checkmark$  as many as you like)

Fishing	Diving / Snorkeling	Viewing Aboriginal rock art
Walking along the shore	4 Wheel Driving	Other (list)
Surfing	Collecting seafood, shellfish	
Boating	Skiing	
Swimming	Looking for/watching marine wildlife	
Collecting shells	Enjoying the view	I don't do — or want to do — anything at the coast regularly

8. Rate the following possible future outcomes concerning the study area according to their importance to you. (please tick 🗸 whether you believe the possible outcome is 1 very important, 2 fairly important or 3 not important.)

	1	2	3		1	2	3
Increased employment opportunities				Protection of marine plants and animals			
Speedy approval process for development				Open, easily understood government approval process			
Thorough approval process for development				Unrestricted access for small boats			
Easy and safe shipping for imports and exports				Community education about the marine environment			
Unpolluted waters				Sharing the marine environment with visitors			
Accessible beaches for swimming, diving and boating				Publishing study results			
Natural view(s)				Safe waters			
Increased national income from resource developments				Diversification of industry			
Increase in local business trade				Being able to access the islands			
Simplified regulation and management				Being able to camp on the islands			
Scientific research				Being able to build infrastructure on the islands			
Mangrove protection				Having more marine parks			
Recognition of Aboriginal heritage							

#### 9. What are the three (3) most important outcomes from question 8 that you would like to see happen?

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10. The marine environment has many **natural qualities** and **uses**. How important would you rate the following **natural qualities** of the North West Shelf marine environment? (please place one tick  $\checkmark$  whether you believe the possible outcome is 1 very important, 2 fairly important or 3 not important for each natural quality.)

	1	2	3		1	2	3
Water quality				Healthy and natural environment (ecosystem integrity)			
Variety of plants and animals <i>(biodiversity)</i>				Other (list)			
Number of plants and animals							
Health of plants							
Health of animals							
Aesthetic (or attractiveness) values							

#### 11. What are the three (3) most important natural qualities to you in question 10?

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# 12. How important would you rate the following uses of the North West Shelf marine environment? (please place one tick 🗸 whether you believe each use is 1 very important, 2 fairly important or 3 not important for each.)

	1	2	3		1	2	3
Recreational Fishing				Transportation			
Skiing and surface water sports				Aquaculture			
Swimming				Pearling			
Crabbing				Indigenous cultural activities			
Diving				Monitoring activities			
Boating				Coastal development (associated with industrial			
Four wheel driving				and population growth)			
Camping				Other (list)			
Commercial non-trawl fishing							
Commercial fish trawling							
Tourism							
Resource extraction							

#### 13. List what you believe to be the three (3) most important uses in question 12.

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14. The following activities (natural and human) that occur in the study area impact upon the environment in different ways. Rate them according to the level of threat they are to the marine environment. (please tick  $\checkmark$  whether you believe the activities 1 pose a great threat, 2 pose some threat or 3 are not a threat to the marine environment.)

	1	2	3		1	2	3
Commercial non-trawl fishing				Dredging			
Eco tourism				Oil and gas industry			
Pearling operations				Iron ore industry			
Aquaculture				Climate change			
Tourism				Coastal effluents (e.g. sewage)			
Diving				Commercial fish trawling			
Small boats				Coastal development (associated with industrial			
Shipping				and population growth)			
Pastoral (coastal) land use				Other (list)			
Cyclones							
Recreational fishing							

15. List the three (3) greatest threats to the marine environment from question 14 and explain why they are threats and where in the study area they area of most concern to you.

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16. Are there any other activities or events (natural and human) apart from those listed above, that you consider to be major threats to the marine environment in the North West Shelf study area? If so, what are they, where are they threats and why are they threats?

17. In your opinion, what are the most important issues that should be addressed in this environmental study?	23. In the study area, where do you spend a significant amount of your time and what do you do there? Please be specific.
18. List things that you would you like to see put in place for the future environmental management in the study region.	
19. What do you understand by the term 'ecological sustainability'?	24. Do you have any other comments, concerns, issues or suggestions concerning the management of the marine environment?
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20. Do you think ecological sustainability of the marine environment is important? Yes No Don't Know	
21. Why / Why not?	
	Thankyou for completing this survey!
22. For the study area, rank the following goals from 1 - 4 in terms of importance to you, from most important (1) to least important (4).	PLEASE RETURN BY 31ST SEPTEMBER 2001 TO:
GOAL RANK	Tonia Swetman
Having processes in place to manage the region's environment.	Community Liaison Manager
Maintenance of sustainable relationships among plants, animals and people.	North West Shelf Joint Environmental Management Study PO Box 658
Growth in employment, income and standard of living.	KARRATHA WA 6714
Pleasant environment with features available for the public to use.	LIKE TO KNOW MORE ABOUT THE STUDY?
reason controllinent with readies analastic for the public to use.	Contact Tonia on: 9185 6790 or email: cognito@kisser.net.au



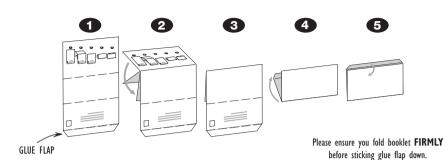
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MAILING BACK YOUR COMPLETED SURVEY FORM

APPER POSTAGE

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