



NSW GOVERNMENT
Department of Planning

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Mr Heath Folpp
Manager, Fisheries Enhancement
NSW Department of Primary Industries (DPI)
PO Box 21
Cronulla NSW 2203

Our Ref: S07/01308

Dear Mr Folpp

**Director General's Requirements
Offshore Artificial Reefs Project
Project Application MP 08_0095**

The Department has received your application for the proposed Offshore Artificial Reefs Project.

I have attached a copy of the Director-General's requirements (DGRs) for the project. These requirements have been prepared in consultation with the relevant government authorities, and are based on the information you have provided to date. I have attached a copy of the government authorities' comments for your information.

Please note that the Director-General may subsequently alter these requirements.

I would appreciate it if you would contact the Department at least 2 weeks before you propose to submit your Environmental Assessment for the project. This will enable the Department to determine the:

- applicable fee (see Division 1A, Part 15 of the *Environmental Planning and Assessment Regulation 2000*);
- consultation and public exhibition arrangements; and
- number of copies (hard-copy or CD-ROM) of the Environmental Assessment that will be required for exhibition purposes.

Once it receives the Environmental Assessment, the Department will review it in consultation with the relevant agencies to determine if it adequately addresses the Director-General's requirements, and may require you to revise it prior to public exhibition.

The Department is required to make all the relevant information associated with the project publicly available on its website. Consequently, I would appreciate it if you would ensure that all the documents you subsequently submit to the Department are in a suitable format for the web, and arrange for an electronic version of the Environmental Assessment to be hosted on a suitable website during the exhibition period.

If you have any enquiries about these requirements, please contact Ann-Maree Carruthers on 02 9228 6550.

Yours sincerely

A handwritten signature in blue ink, appearing to read 'Chris Wilson'.

17. 7. 08

Chris Wilson
Executive Director
As delegate of the Director-General

Director-General's Requirements

Section 75F of the *Environmental Planning and Assessment Act 1979*

Project	Establishment of three offshore artificial reefs at Newcastle, Sydney and Wollongong. The artificial reefs structures would be approximately 10m in height and constructed of steel.
Site	~2-3km off the east coast of Newcastle, Sydney and Wollongong
Proponent	Department of Primary Industries
Date of Issue	July 2008
General Requirements	<p>The Environmental Assessment must include:</p> <ul style="list-style-type: none"> • an executive summary; • a detailed description of the project, including the: <ul style="list-style-type: none"> – need for the project; – alternatives considered; – likely staging of the project; and – plans that sufficiently outline the spatial arrangement of deployed structures; • a risk assessment of the potential environmental impacts of the project, identifying the key issues for further assessment; • a detailed assessment of the key issues specified below, and any other significant issues identified in the risk assessment (see above), which includes: <ul style="list-style-type: none"> – a description of the existing environment, using sufficient baseline data; – an assessment of the potential impacts of all stages of the project, including any cumulative impacts, taking into consideration any relevant statutory provisions, technical or policy guidelines (see below); – a description of the measures that would be implemented to avoid, minimise, mitigate, rehabilitate/remediate, monitor and/or offset the potential impacts of the project, including detailed contingency plans for managing any potentially significant risks to the environment; • a statement of commitments, outlining all the proposed environmental management and monitoring measures; • a conclusion justifying the project on economic, social and environmental grounds, taking into consideration whether the project is consistent with the objects of the <i>Environmental Planning & Assessment Act 1979</i>; • a signed statement from the author of the Environmental Assessment, certifying that the information contained within the document is neither false nor misleading.
Key Issues	<ul style="list-style-type: none"> • Coastal Processes – including: <ul style="list-style-type: none"> – coastal hazards, coastal inundation, wave run up/ reflection, and adequacy of the structures stability and height in light of the projected sea level rises; – sediment circulation, sedimentation budgets, erosion and sand bypassing; and – changes in wave behaviour, including wave dispersion and creation via amendments to orbital/oscillatory motions; • Flora and Fauna – including: <ul style="list-style-type: none"> – an assessment of any impacts on critical habitats, threatened species, protected species, populations or ecological communities and their habitats in the region, and in particular potential impacts from angling activities and measures to mitigate these impacts; – potential significant impacts from draw down effects from faunal populations in adjacent natural reef areas and aggregation of any

	<p>threatened/protected species and communities; and</p> <ul style="list-style-type: none"> - an assessment if any potential impacts on the Five Islands Nature Reserve; <ul style="list-style-type: none"> • Project Monitoring – including procedures to monitor: <ul style="list-style-type: none"> - the integrity of the reef structures; - any impacts on significant components of the marine ecosystem; - any impacts and aggregation of threatened/protected species and communities; - the effectiveness of the reefs including catch rates, species composition of catch, and fish stocks; - the usage of the reefs by anglers and other members of the public; and - any conflicts between users of the reef; • Sediments and Water – including sediment disturbance during the sinking process and leaching of contaminants from the reef structures; • Navigation and safety – including an assessment of the impacts on water based traffic; • Infrastructure – requirements for land base infrastructure including any upgrades required for existing infrastructure; • Heritage; and • Construction – including the measures to minimise potential noise, air quality, traffic, soil and water and waste impacts.
References	While not exhaustive, the following attachment contains a list of the guidelines, policies, and plans that may be relevant to the project.
Consultation	<p>During the preparation of the Environmental Assessment, you should consult with the relevant local, State or Commonwealth government authorities, service providers, community groups or affected landowners.</p> <p>In particular, you must consult with:</p> <ul style="list-style-type: none"> • Department of Environment and Climate Change; • Sydney Ports Corporation; • Newcastle Ports Corporation; • Port Kembla Ports • NSW Maritime; • Department of Lands; • Department of Primary Industries (Aquatic Habitat Protection) • Commonwealth Department of Water, Environment, Heritage and the Arts; and • relevant Councils, coastal patrol groups, commercial and recreational fishing groups etc. <p>The consultation process and the issues raised must be described in the Environmental Assessment.</p>
Deemed refusal period	60 days

Technical and Policy Guidelines

Aspect	Policy /Methodology
Risk Assessment	AS/NZS 4360:2004 Risk Management (Standards Australia) HB 203: 203:2006 Environmental Risk Management – Principles & Process (Standards Australia)
Soil and Waters	
<i>Soil</i>	Acid Sulfate Soil Manual (ASSMAC) Managing Urban Stormwater: Soils & Construction (Landcom) NSW Coastal Policy (NSW Government) Coastline Management Manual (NSW Government) State Environmental Planning Policy No 71 – Coastal Protection
<i>Water</i>	National Water Quality Management Strategy: Water quality management - an outline of the policies (ANZECC/ARMCANZ) National Water Quality Management Strategy: Policies and principles - a reference document (ANZECC/ARMCANZ) National Water Quality Management Strategy: Implementation guidelines (ANZECC/ARMCANZ) National Water Quality Management Strategy: Australian Guidelines for Fresh and Marine Water Quality (ANZECC/ARMCANZ) National Water Quality Management Strategy: Australian Guidelines for Water Quality Monitoring and Reporting (ANZECC/ARMCANZ) Approved Methods for the Sampling and Analysis of Water Pollutants in NSW (DEC) Using the ANZECC Guideline and Water Quality Objectives in NSW (DEC)
Flora and Fauna	
	Policy & Guidelines - Aquatic Habitat Management and Fish Conservation (NSW Fisheries) Threatened Biodiversity Survey and Assessment: Guidelines for Developments and Activities. Working Draft (DEC) Draft Guidelines for Threatened Species Assessment under Part 3A of the <i>Environmental Planning and Assessment Act 1979</i> (DEC) Threatened Species Assessment Guidelines: The Assessment of Significance (DECC)
Heritage	
<i>Aboriginal</i>	Draft Guidelines for Aboriginal Cultural Heritage Impact Assessment and Community Consultation (DEC) Aboriginal Cultural Heritage Standards and Guidelines Kit (NSW EPA) Interim Community Consultation Requirements for Applicants
<i>Non-Indigenous</i>	NSW Heritage Manual (NSW Heritage Office & DUAP) The Burra Charter (The Australia ICOMOS charter for places of cultural significance)
Noise	
	NSW Industrial Noise Policy (DECC) Environmental Criteria for Road Traffic Noise (NSW EPA) Environmental Noise Control Manual (DECC)
Air Quality	
	Protection of the Environment Operations (Clean Air) Regulation 2002 Approved Methods for the Modelling and Assessment of Air Pollutants in NSW (DEC)

Approved Methods for the Sampling and Analysis of Air Pollutants in NSW
(DEC)

Traffic & Transport

Guide to Traffic Generating Development (RTA)
Road Design Guide (RTA)

Waste

Waste Avoidance and Resource Recovery Strategy 2007 (DECC)
Waste Avoidance and Resource Recovery Strategy 2007 - Overview
(DECC)
Waste Avoidance and Resource Recovery Performance Report 2006
(DECC)
