

Pluto LNG Environmental Offset D - Research and monitoring in the proposed Dampier marine reserves

PROGRAM ANNUAL REPORT

September 2015



Department of Parks and Wildlife



Department of Parks and Wildlife Locked Bag 104 Bentley Delivery Centre WA 6983 Phone: (08) 9219 9000 Fax: (08) 9334 0498

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1 Introduction

The marine and coastal environment of the Dampier Archipelago/Cape Preston Region has a unique combination of offshore islands, intertidal and subtidal reefs, mangroves, macroalgal communities and coral reefs. The area has been the focus of increasing human usage since Hamersley Iron established the settlement in 1963, and continues to be under intensive anthropogenic pressure, associated with major industrial expansion, port development and operations, dredging activities, salt works operations, aquaculture, increasing tourism, and the associated high rate of boat ownership and commercial and recreational fishing activities. The high value of the natural assets and increasing pressures highlights the need for enhanced marine protection of the area.

Woodside's Pluto LNG Project is an approved operation utilising the Dampier area for supporting infrastructure for the extraction of gas, including the presence of a gas pipeline to an onshore processing facility, storage and then export via a shipping port with the associated loading jetty and channel. A large scale dredging program has been completed to support the port infrastructure required for the LNG processing and export facility. The EPA recommended conditional approval for the proposal provided Woodside implement a substantive offset package.

The Pluto LNG Offset 'D' Program was initiated as a result of Ministerial Approval Statement 757 (the statement). Published on 24 December 2007, section 13 of the statement requires an offset package to be implemented by the proponent. The contractual arrangements for Pluto LNG Project Offset 'D' Program are outlined in the Funding Agreement between Woodside Burrup Pty Ltd in its capacity as operator of the Pluto LNG development and the state of Western Australia acting through the Chief Executive Officer of the then Department of Environment and Conservation (DEC). The Agreement was signed on the 20 January 2011 by Keiran McNamara, Chief Executive Officer of DEC and Lucio Della Martine, Executive Vice President Pluto.

As part of the reporting requirements outlined in section 2.2 of the Agreement, the Department of Environment and Conservation, now the Department of Parks and Wildlife (Parks and Wildlife), is required to provide Woodside with a Program Annual Report by 30 September for each year the Program operates. The annual report is to include a summary of the following:

- (i) Status updates on each of the research projects that form part of the Program as outlined in Attachment 1;
- (ii) Total amount spent on the Program for the reporting period and in total to date; and
- (iii) Publications, seminars and other public fora at which the findings of the Program have been presented.

This document is the Program Annual Report for the reporting period 1 July 2014 to 30 June 2015.

Ministerial Approval Statement 757 defines the focus of the Pluto LNG Offset 'D' as 'Research and monitoring consistent with the Indicative Management Plan for the Dampier Archipelago Marine Park'.

The Agreement consists of funding of \$3.8 million which has been subdivided into four marine science projects that collectively make up the Program. These projects, as outlined in Attachment 1, were identified as priorities from the Indicative Management Plan for the proposed Dampier Archipelago Marine Park and Cape Preston Marine Management Area (CALM, 2005).

The four marine science projects are:

- i. Review, assess and summarise historical data relevant to the management of the proposed Dampier Archipelago Marine Park and Regnard Marine Management Area;
- ii. Determine distribution, patterns and key processes of major marine communities and large marine fauna of the proposed Dampier Archipelago Marine Park and Regnard Marine Management Area;
- *iii.* Describe patterns and trends in human use in the proposed Dampier Archipelago Marine Park and Regnard Marine Management Area; and
- *iv.* Establish long-term monitoring reference sites in the proposed Dampier Archipelago Marine Park and Regnard Marine Management Area.

Project 1 commenced in 2011 and the final report was completed in February 2015. Projects 2 and 3 will be initiated in the 2015-2016 financial year. Project 4 was initiated in July 2014 using the information gathered in Project 1, and initial background work and some monitoring was carried out over the past 12 months.

2 Progress to Date

During the 2014/2015 reporting period, Project 1 was completed and a report documenting historic research and monitoring has been finalised (Attachment 2). The detailed information on the spatial and temporal extent of research and monitoring in Project 1 is being used to plan and initiate projects 2 - 4 which will involve collaborations with other agencies with relevant expertise. In 2014/15, work commenced on Project 4 (monitoring), and this involved initial familiarisation, planning, site selection and the commencement of monitoring fieldwork.

Planning for Project 4 incorporated prioritisation of marine park assets for monitoring according to Simpson et al. (2015). Using this framework twelve people from government, industry and academia, with good knowledge of the marine environment in the Dampier Archipelago, assessed the value of ecological assets and the pressure associated with that asset. The assets coral, fish, turtles, mangroves, macroalgae and seagrass were identified as high priority for monitoring.

The same prioritisation framework was used to identify assets that were high priorities for applied and fundamental research. This information, combined with

research priorities identified in Kendrick et al. (In prep), are being used to generate a plan for research expenditure under Project 2.

2.1 Research project updates

Project 1: Review, assessment and summary of historical data relevant to the management of the proposed Dampier Archipelago Marine Park and Cape Preston Marine Management Area.

- Report for Pluto Project 'i' 'Learn from the past to manage the future' was drafted, with the support of other MSP staff and external collaborators.
- The final report was reviewed through the Parks and Wildlife internal review process, by Dr Stuart Field and Dr Shaun Wilson.
- The final report was completed, submitted to the Parks and Wildlife's Marine Science Program Leader and approved for publication as a government report (see Attachment 2).
- The final report has and will be used to advise the development of Projects 2, 3 and 4.

2014/2	Timing/Status					
1	Completed draft of final report					
2	2 Completed internal reviews and submitted final report					
2015/2	Timing/Status					
1	Maintenance of confluence webpage incorporating additional data as it becomes available	Ongoing				

Project 2: Distribution, patterns and key processes of major marine communities and large marine fauna of the proposed Dampier Archipelago Marine Park and Cape Preston Marine Management Area.

- Planning discussions regarding modes of delivery for Project 2 have commenced with more detailed frameworks currently being developed by senior research scientists and external collaborators.
- A research prioritisation was carried out through consultation with 12 regional experts from government agencies, industry, non-government organisations and consultants to identify assets and pressures most in need of investigation.

2014/2	Timing/Status				
1	1 Identified multiple research opportunities to be commenced in the 2015/16 reporting period				
2015/2	Timing/Status				

1	Complete the project planning requirements to commence research including the development of Science Concept and Project Plans.	June 2016
3	Planning of Field Program	June 2016

Project 3: Patterns and trends in human use in the proposed Dampier Archipelago Marine Park and Cape Preston Marine Management Area.

- Building collaborations and networks with other researchers for the development of techniques/methodology, so that the results of this project can form part of greater framework across the Pilbara region.
- Discussions regarding modes of delivery for Project 2 have commenced with more detailed frameworks currently being developed between the Department of Parks and Wildlife and external collaborators.

2014/2	2014/2015 Achievements/Major Activities						
1	Identification of programs within the State and particularly the Pilbara region incorporating investigations of human use.	March 2015					
2	Discussions with Departmental experts and project managers on the best delivery mechanism and timing.	May 2015					
2015/2	Timing/Status						
1	Complete the project planning requirements to commence research including the development of Science Concept and Project Plans.	June 2016					
2	Select appropriate survey methodologies for quantifying human use across the proposed marine park	June 2016					

Project 4: Establishment of long-term monitoring reference sites in the proposed Dampier Archipelago Marine Park and Cape Preston Marine Management Area.

- A monitoring prioritisation through consultation with 12 regional experts from government agencies, industry, non-government organisations and consultants was used to identify high priority monitoring objectives. The assets selected for the focus of the work include:
 - Coral
 - Fish
 - Mangroves
 - Macroalgae
 - Seagrass

- Based on this information a Science Concept Plan has been written detailing the work that will be completed.
- The Science Concept Plan was reviewed internally and approved by the Science Management Team.
- Collaboration with Parks and Wildlife regional offices, Woodside, CSIRO, Department of Fisheries, universities, and traditional owners is being maintained throughout the project.
- Information collected in Project 1, as well as advice from collaborators, the Indicative Management Plan, and scoping fieldwork, were used to select long-term monitoring sites for coral and fish communities (sites in Attachment 3)
- The monitoring program was initiated through the establishment of 15 longterm monitoring sites for coral and fish communities.
- Collection of marine community health data has been established including;
 - Coral cover and diversity was recorded with digital images along 3 x 50m permanent transects at each site.
 - Fish size and abundance recorded along 6 x 50m transects using stereo Diver Operated Video.
 - Deployment of temperature loggers at four sites.

2014/	2014/2015 Achievements/Major Activities							
1	Completed project planning requirements to commence research including monitoring prioritisation, Science Concept and Project Plans.	June 2015						
2	Select long-term monitoring sites for Key Performance Indicators listed the Indicative Management Plan, as well as field verification of site suitability.	Feb 2015						
3	Commencement of long-term monitoring beginning with high priority species (i.e. coral communities and finfish) including - Establishment of permanent survey sites. - Completing first site survey.	May 2015						
2015/	Timing/Status							
1	Analysis and compilation of coral and fish community data, and the drafting of a document describing permanent monitoring sites.	Dec 2015						
2	Analysis of GIS imagery from 2014 for mangrove community health, and ground-truth to assess long-term monitoring sites.	Nov 2015						
3	Development of techniques/methods to monitor tropical macroalgae and seagrass communities as well as establishing long-term monitoring sites for these assets.	June 2016						

2.2 Expenditure

The total amount of expenditure for the 2014/15 reporting period (1 July 2014 – 30 June 2015) was \$178,584.93. The total expenditure for the program to 30 June 2015 was \$471,978.30. Interest was paid on this account in 2014/2015 totalling \$99,577.98. This expenditure was limited to Project 4.

Financial summary of the Program for all financial years of operation

Activity	Opening balance (1 July 2014)	<i>Income</i> /Interest (2014/15)	Proposed Expenditure (2014/2015)	Actual Expenditure (2014/2015)	Closing balance (30 June 2015)
Interest		\$99,577.98			
Project 4			\$200,000	\$178,584.93	
TOTAL	\$3,582,013.87	\$3,681,591.85		\$471,978.30	\$3,503,006.92

Expenditure for Project 4 against the Pluto LNG Offset 'D' Program Account 2014/2015

Activity	Expense
Salary and wages	\$139,186.64
Operating	\$16,087.37
Plant	\$9,426.61
Travel	\$4,554.34
Internal charges	\$9,329.97
TOTAL	\$178,584.93

Expected expenditure for Project 4 for 2015/2016 financial year

	-
Activity	Expense
Salary and wages	\$134,716.00
Operating	\$25,100.00
Plant	\$2,500.00
Travel	\$8,100.00
Internal charges	\$19,331.00
TOTAL	\$189,747.00

2.3 Publications and Presentations

Publications

Pluto LNG Environmental Offset D – Program Annual report to Woodside, 20/09/15.

Department of Parks and Wildlife (2015) Final Report for Pluto Project 'i' – 'Learn from the past to manage the future'. Department of Parks and Wildlife, Perth.

Facebook post detailing coral and fish monitoring trip posted on Parks and Wildlife website on 09/06/15.

Science Concept Plan 2015-015 Establishing long-term monitoring in the proposed Dampier Archipelago marine reserves. Department of Parks and Wildlife, Perth.

Presentations

Presentation at Pilbara Marine Conservation Partnership (PCMP) Symposium. Pluto Offset 'D' - Research and monitoring in the proposed Dampier marine reserves. November 2014.

Formal discussion and presentation of project to Woodside. January 2015.

3 References

Department of Conservation and Land Management, 2005. *Indicative Management Plan for the Proposed Dampier Archipelago Marine Park and Cape Preston Marine Management Area 2005* Department of Conservation and Land Management.

Attachment 1

Marine Science Projects for PLUTO Offset D: Dampier Archipelago marine parks and reserves

	Project title	Funding (\$'000s) ¹					Potential collaborators	Rationale
		Year 1	2	3	4	5	conaborators	
1.	Review, assessment and summary of historical data relevant to the management of the proposed Dampier Archipelago Marine Park and Cape Preston Marine Management Area	50	200	50	-	-	Industry, State Govt departments, AIMs etc	Large amounts of data have been collected by a range of agencies and industry in this area over the past two decades. This project will assess existing datasets in relation to the projects below and future environmental management needs to avoid 're-inventing the wheel'. A database will be constructed to ensure future access to existing information (i.e. 'one-stop shop' approach).
2.	Distribution, patterns and key processes of major marine communities and large marine fauna of the proposed Dampier Archipelago Marine Park and Cape Preston Marine Management Area	300	300	400	400	400	AIMS, WAM, DoF	Will build on existing datasets (e.g. DPAW, WAM, Industry) and provide a more comprehensive understanding (incl. habitat maps) of the major communities and large marine fauna distributions (focus on turtles, dugong, seabirds). Will provide a better ecological basis for future MPA planning and management and the assessment and management of potential impacts of development proposals.
3.	Patterns and trends in human use in the proposed Dampier Archipelago Marine Park and Cape Preston Marine Management Area	200	200	200	100	100	AIMS, MU	Will complement the above data by identifying those human activities that pose an unacceptable level of risk to the marine biodiversity of the region (existing and future) and identify areas of existing and future conflict between competing uses (e.g. marine tourism and industrial development. May include a community monitoring component.
4.	Establishment of long-term monitoring reference sites in the proposed Dampier Archipelago Marine Park and Cape Preston Marine Management Area	100	200	200	200	200	AIMS, CSIRO, industry, DoF	Will complement existing industry 'reference' and 'impact' monitoring sites; Will provide a better understanding of the nature and extent of natural variation and causes and help separate natural from human- induced changes in the environment; will assist and be integrated with MPA monitoring programs. May include a community monitoring component.
TOTAL		750,000	900,000	750,000	700,000	700,000	\$3,800,000	

Key: AIMS= Australian Institute of Marine Science; WAM = WA Museum; MU = Murdoch University; JCU= James Cook University; DoF= Department of Fisheries

(Adapted from Woodside, 2009)

¹ Funding allocations are indicative only and will be reviewed once the project 1 review is completed and detailed project planning is undertaken.

Attachment 2

Final report for Pluto Offset 'D' Project 1, titled 'Learn from the past to manage the future'

Report for Pluto Offset 'D' Project 'i' – 'Learn from the past to manage the future'

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August 2015



Department of **Parks and Wildlife**



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Appendix 3 Bibliography of all reports accessed for data, as managed by Zotero

Table of Abbreviations

AIMS	Australian Institute of Marine Science
CALM	Department of Conservation and Land Management
ChEMMS	Chemical and Environmental Monitoring of Mermaid Sound
DEC	Department of Environment and Conservation
DoF	Department of Fisheries
PPA	Pilbara Ports Authority
Parks and Wildlife	Department of Parks and Wildlife
IMCRA	Integrated Marine and Coastal Regionalisation of Australia
IMP	Indicative Management Plan
ISMC	Intertidal Sand and Mudflat Communities
KPI	Key Performance Indicator
LNG	Liquefied Natural Gas
MPRA	Marine Parks and Reserves Authority
MSIM	Marine Science Information Management
MSP	Marine Science Program
OEPA	Office of the Environmental Protection Authority
SKM	Sinclair Knight Merz
SSBC	Subtidal Soft-bottom Communities
WAM	Western Australian Museum
WAMMP	Western Australian Marine Monitoring Program

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The authors of this report would like to thank all Marine Science Program asset leaders and members of the technical reference group. We would also like to thank Dr. Shaun Wilson, Dr. Stuart Field and Dr. Alan Kendrick for the valuable feedback during the review process. Particular thanks go to Dr. Jim Stoddart from MScience, Dr. Rachael Marshall from the Parks and Wildlife's Pilbara Region and Wayne Young from the Damper Port Authority. We would also like to acknowledge the guidance and collaborative support of Woodside Energy Ltd.

Summary

The Dampier Archipelago is a unique and diverse marine system situated 1650 km north of Perth in Western Australia. This area is subject to intensive human usage including a major liquefied natural gas (LNG) plant as part of Woodside's Pluto development. As a requirement for using the Dampier Archipelago for processing and exporting LNG, Woodside has established the Pluto Offset 'D' consisting of four sub-projects. The aim of the first sub-project is to review, assess and summarise historical data relevant to the management of the proposed Dampier Archipelago Marine Park and Cape Preston Marine Management Area. In order to achieve this objective the Department of Parks and Wildlife, with the assistance of advisors, and a technical reference group, collected and collated all historical marine research and monitoring data relating to the Dampier Archipelago. The technique involved treating each data set to a four step process of; context setting, prospecting, data mining and reporting.

A total of 871 datasets dating back to the early 1970s were identified. The majority of the datasets related to coral communities (175) and water quality (151), but also included many studies of invertebrates (53), mangroves (48) and finfish (30). The metadata for these datasets was spatially georeferenced and stored in a dedicated data catalogue. A significant component of the project was the design and implementation of an information management and reporting framework. The combined purpose of the data catalogue and the information management and reporting framework is to make the data discoverable and accessible, protect data from unauthorised access, preserve meaning and context of data, facilitate re-use of data and provide a safe and secure cataloguing and archiving solution for datasets. Currently, more than 650 datasets have been uploaded to the catalogue, which will be maintained by Parks and Wildlife. The information collected, collated and stored through this project will be used for the development of the remaining three Pluto offset 'D' projects and will inform the development of future research and monitoring programs and well as management plans.

1 Introduction

The Dampier Archipelago is situated adjacent to the port of Dampier, 1650 km north of Perth in the Pilbara Nearshore Marine Bioregion (IMCRA; Figure 1). The marine and coastal environment of the Dampier Archipelago/Cape Preston Region consists of offshore islands, intertidal and subtidal reefs, mangroves, macroalgal communities, seagrass communities and coral reefs. The area has been the focus of intense and growing anthropogenic pressure through industrial development and recreational use since the 1960s. Industrial works in the marine and coastal environment of the archipelago region include port development and operations, dredging, salt production, pearling and aquaculture and commercial fishing. Recreational use of the archipelago is also high, with the region supporting a high level of boat ownership and recreational fishing. This area is also rich in cultural heritage, with some of Australia's oldest and most diverse collections of Aboriginal rock engravings, quarries, middens, fish traps, rock shelters, ceremonial sites, artefact scatters, grinding patches and stone arrangements. Owing to the combined importance of natural and cultural heritage values in the area and the increasing anthropogenic pressures, this area has consistently been recognised as a priority for increased marine management and conservation. In 2005 an Indicative Management Plan (IMP) was released for the proposed Dampier Archipelago Marine Park and Cape Preston Marine Management Area. This IMP proposed a range of management actions to protect the social and ecological values of the marine environment (Department of Conservation and Land Management 2005).

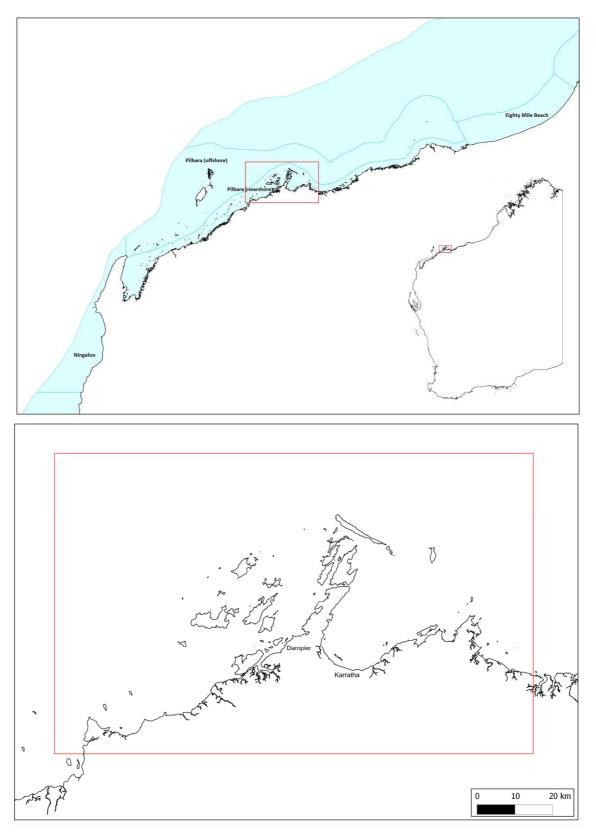


Figure 1 Map of the Dampier Archipelago and its relative location. Upper; IMCRA zoning for the North-West showing position of Dampier relative to Western Australia, encompassing both Pilbara (nearshore and offshore) IMCRA regions. Lower; map showing the study area for this project.

For the past 50 years, and especially over the last two decades, the Dampier Archipelago and adjacent coast has been the centre of major development works for resource and support industries. More than 20 major coastal or marine industrial developments have been built or are planned for this region.

The first significant marine development in the region was construction of the Port of Dampier, which was established in 1963 by Hamersley Iron, and has continued to expand since. A solar salt field and associated loading facilities were constructed in the 1970s. In 2000, facilities were upgraded to provide shelter for large vessels, as well as berthing and cargo handling facilities. There has also been construction of a desalination plant (2004), storage facilities (2004), a methanol plant (2004), power stations (2009), jetty additions and extensions (2006), wharf construction (2004), and shipping channel expansion (2003, 2007, 2008 and 2011). There have also been numerous upgrades to existing facilities. Recent developments include iron ore loading facilities at Cape Preston and the proposed Anketell port infrastructure at Dixon Island.

Woodside's Pluto LNG Project was developed to extract liquid natural gas from the Carnarvon Basin on the North West Shelf. Following discovery of the reserves in 2005 the development was approved in 2007 and first LNG processed in 2011. This project includes the extraction of gas, transport via a gas pipeline to the onshore facility on the Burrup Peninsula where the gas is processed and stored prior to export via port facilities. The construction of port facilities and shipping channels required a dredging program that removed 14 million cubic meters of sediment, which was acknowledged to potentially have a significant impact on the marine environment.

The Pluto LNG Project Offset 'D' was approved under Ministerial Approval Statement 757 (the statement; Appendix 1), which was published on 24 December 2007. Section 13 of the statement requires an offset package, outlined in schedule 6 of the statement, to be implemented by the proponent. A funding agreement signed on 20 January 2011 by Woodside Burrup Pty Ltd and the State of Western Australia defined the scope, terms and conditions for the Pluto LNG Project Offset 'D' – 'Research and monitoring consistent with the Indicative Management Plan for the Dampier Archipelago Marine Park'. Offset D is being completed through four projects:

- *i.* Review, assess and summarise historical data relevant to the management of the proposed Dampier Archipelago Marine Park and Cape Preston Marine Management Area;
- ii. Patterns and distribution of major marine communities (incl. key functional groups) and large marine fauna in the Dampier Archipelago/Cape Preston region;
- iii. Patterns and trends in human usage of the marine environment in the Dampier Archipelago/Cape Preston Region; and

iv. Establishment of a long-term reference sites for monitoring, evaluation and reporting.

This report relates to project 'i' of the Pluto LNG Project Offset 'D'

The focus of work for Pluto LNG Project Offset 'D' is on implementing research and monitoring that is consistent with the IMP for the proposed Dampier Archipelago Marine Park and Cape Preston Marine Management Area (proposed Dampier marine reserves). The IMP highlights that some aspects of the marine biodiversity in the proposed reserves are relatively well understood; while knowledge about environmental processes and existing pressures on values of these reserves is limited (Department of Conservation and Land Management 2005). Management strategies for scientific activity within the proposed reserves include the implementation of programs to provide for monitoring and assessment of ecological processes and the levels of human impacts.

1.1 Context

A considerable amount of marine environmental and social data has been collected by industry groups and government agencies in the Dampier Archipelago area since the late 1970s. This data was collected as part of industry development approvals compliance programs, and processes. post-approval monitoring State Commonwealth Government marine research and monitoring programs, university research programs and community projects. In 2009, the Minister for Environment appointed the Shared Environmental Assessment Knowledge Taskforce to design and implement an environmental data library to ensure that all data is stored and made publicly available through an easily accessible portal, including information already captured by Government. Since 2012 this responsibility has been held by the Department of Mines and Petroleum. Through this process the WA Government has developed a prototype data library with the aim of digitising and storing reports and presenting metadata that will be accessible to the public, researchers and industry. This project also aims to link with existing environmental databases that are managed by other Government departments. To align with this objective, the focus of this Pluto Offset 'D' project is to develop a Departmental data management system which meets the same objectives.

The research objectives identified in the IMP for the proposed Dampier marine reserves include:

- To obtain an appropriate understanding of the biodiversity and key ecological and social processes within the proposed reserves; and
- To promote ecological and social research in the proposed reserves that improves knowledge of the reserves and the technical basis for management decisions.

The IMP also identifies the strategies and targets by which these objectives can be achieved.

The IMP also identifies the monitoring objectives as:

- To monitor the key ecological values at risk and human usage in the proposed reserves.
- To promote ecological and social monitoring in the proposed reserves that can detect changes to ecological values and aid management decisions.

Management strategies for the proposed Dampier marine reserves include the implementation of programs to monitor and report on the condition of key ecological values and the level of impact on these values from human activities.

This report summarises the process of identifying, assessing and collating existing datasets relevant to the management of the proposed marine reserves. Information in this report will be used to inform the other three projects by informing the establishment of long-term monitoring sites, enabling the assessment of past and current trends in biodiversity asset condition, understanding the pressures acting on these assets, and the efficiency and effectiveness of management responses to these pressures. These data have been incorporated into a data catalogue to secure future access to all information. See section 3.3 for further information and access details.

1.2 Project aims

The primary and secondary aims for Pluto LNG Offset 'D' Project 'i' are:

Primary

- i. To identify, assess and collate existing biophysical and social datasets relevant to values listed in the IMP for the proposed Dampier marine reserves;
- ii. Construct historical time-series of relevance to the conservation of marine biodiversity and the management of human use of the proposed Dampier marine reserves;
- iii. To ensure data is summarised, archived, made accessible and broadly presented to Government, industry and the local community; and
- iv. To assist the design and implementation of Pluto LNG Project Offset 'D' projects (ii), (iii) and (iv).

Secondary

- v. To promote the standardization and uptake of historical time-series development procedures in Parks and Wildlife and elsewhere;
- vi. To promote integration of past, current and future research and monitoring programs to ensure investment delivers effective outputs that address management requirements; and
- vii. Present recommendations on further actions required to access or utilise key datasets.

2 Methodology

Parks and Wildlife's Marine Science Program is preparing guidelines to provide a generic step by step process for creating historical time-series datasets and assessing them for suitability for use in marine monitoring. In these guidelines, four stages are defined for establishing a historical time-series:

- 'Context setting' to provide the background; define assets and management objective; and note relevant condition and pressure indicators to guide the process.
- 'Prospecting' potential datasets to identify and acquire potential datasets for use in the construction of the suite of historical time-series.
- 'Data Mining' of suitable datasets to discern the quality, suitability, rank and weighting of historical datasets selected. Typically data will be compiled from various studies where the objective, sites and methods of studies may differ.
- 'Reporting' where a 'Quality Index' is used to report the 'Pedigree' of the resulting time-series. This stage considers the suitability of parameters considered in the first three major stages described above.

Whilst the variability in design, accuracy, methods and approaches make statistical analysis problematic, past studies are collected as they provide important context that inform the future priorities and design of research and monitoring.

2.1 Context setting

Setting the context for the project acted to focus the data identification, review and steps for assessment. Given the large amounts of data that exist in this area, this project was not intended to capture all data within the area but rather to focus on the most relevant and applicable data for the future management of the proposed Dampier marine reserves.

Potential stakeholders or organisations which were believed to have worked in, or hold data from, the Dampier region were approached to form a technical reference group. The technical reference group included experts from a range of government and industry organisations and comprised representatives from:

- Department of Parks and Wildlife, Marine Science Program.
- Department of Parks and Wildlife, Pilbara Region.
- Woodside Energy Ltd.
- Pilbara Ports Authority.
- WA Museum.
- Department of Fisheries.
- Australian Institute of Marine Science.
- Office of the Environmental Protection Authority.
- Commonwealth Scientific and Industrial Research Organisation.
- Other industry stakeholders that work in the area (e.g. Rio Tinto).
- Industry consultants (e.g. SKM and MScience).

The technical reference group provided datasets, insight into work which had been undertaken in the Dampier region, and sources where data may be available. Woodside, PPA and OEPA, along with Rio Tinto and M-Science Pty Ltd, have provided significant input to this project. A broad study area was defined to set geographical constraints during the data prospecting stage and focus the project. This focus area encompassed the proposed Dampier marine reserves as well as adjacent areas of the nearshore Pilbara IMCRA zone that contained the same values and were known to be subject to industry related research and monitoring.

Further contextual detail was provided through identifying a prioritised list of marine assets to focus data prospecting. The selection process identifying these assets was previously undertaken during the drafting of the IMP, and thus, the data prospecting for this project was largely focused on the Key Performance Indicators (KPIs) listed in the IMP (Table 1). While only limited searches for non-KPI assets were carried out, any applicable data found during KPI focused searches was stored and data based.

Parks and Wildlife's WAMMP is progressively developing a suite of specific, assetbased condition and pressure metrics to be used for systematic monitoring of ecological asset health (and identified pressures) across Western Australian marine parks and reserves. Where available, these specific metrics were also used to refine the search parameters during the data prospecting stage (Table 1).

Assets	Asset Condition Metrics	Pressure Metrics
Coral Communities	% coral cover Community composition Coral recruitment Colony size frequency Coral bleaching Coral disease	Water temperature Predator abundance Sedimentation / turbidity
Finfish	Community composition Community size structure Recruitment	Water temperature Habitat change Fishing
Invertebrates	Abundance Diversity	
Intertidal Sand and Mudflat Communities	Abundance Diversity	
Subtidal Soft-bottom Communities	Abundance Diversity	
Mangrove Communities	Spatial extent Canopy cover Tree density Foliage condition Mortality	Salinity Temperature Clearing

Table 1 Summary table of assets and metrics

Assets	Asset Condition Metrics	Pressure Metrics
Turtles	Strandings/incidents	Island visitors Boat use/ownership (proxy for vessel interactions)
Water Quality	Turbidity Light attenuation Sedimentation TBT/metals N (all compounds) P (all compounds) Chlorophyll a	Litter Water temperature Hydrocarbons

2.2 Data Prospecting

This step focused on establishing what research and monitoring has been undertaken, and then assessing the relevance of that data to management requirements for the proposed reserves. Lists of research and monitoring projects undertaken in the study area were compiled in consultation with the technical reference group and expert stakeholders who had direct experience in the area. Broad web, library and OEPA based searches were also undertaken to identify potential datasets of use.

A significant portion of applicable data was held by industry and consultancies. In order to attempt to identify documents containing relevant datasets, and source them, OEPA hard copy files were searched to identify priority research and monitoring programs associated with approved industrial proposals.

This initial collection of metadata was then prioritised based on data relevance (asset/metric) and location, and high priority datasets were requested from custodians. In its simplest form data priority was assigned a ranking based on both spatial and temporal characteristics (see Table 2). The methodology of data collection or monitoring technique was also considered, with data that potentially aligned with future monitoring work being given a higher priority.

Priority Rating	Rationale					
	Spatial					
High	Recognised survey site within proposed marine reserve boundaries	3				
Medium	Within proposed marine park boundaries					
Low	In the focus area (defined in Figure 1)					
	Temporal					
High	Long term study/monitoring program revisiting same site(s) over time	3				
Medium	Study/monitoring program with repeat visit to site(s)	2				
Low	Single site visit survey	1				

Table 2 Rationale for priority rating datasets. Both spatial and temporal results are summed for a total rating.

2.3 Data Mining

Once priority datasets were identified, requests were sent to proponents, and in some cases consultants, to access the data. All prioritized datasets received during the project were assessed and meta-data were extracted. This included:

- metric and presentation;
- collection methods;
- spatial relevancy, extent and replication; and
- temporal relevance and replication in sampling.

To inform future management this will include a summary of the data available, its general suitability and a basic assessment of its capacity for providing a time-series of change, and where possible, a historical time-series dataset.

2.4 Reporting

As part of Pluto Offset 'D' a dedicated Marine Science Information Management Team created a detailed data catalogue for storage of all information collected in this project. A full bibliography has been stored in a designated library using the Zotero management software, allowing access to all reports identified in the project. This includes a quick reference to PDF copies of the reports.

3 Summary of Findings

The marine and coastal environment of the Dampier Archipelago/Cape Preston region is characterised by 42 islands, intertidal and subtidal reefs, mangroves, macroalgal and seagrass communities and coral reefs. The long-term use of this area as an industrial hub has resulted in numerous, and often long-term, research and monitoring programs being implemented in the area. Consequently, there has been a large number of datasets collected over the last four decades in the area.

The results of the work collating the relevant datasets for this study are focussed within the pre-established study area and on prioritised assets highlighted as KPIs in the IMP.

3.1 Aim P(i)

To identify, assess and collate existing biophysical and social datasets relevant to values listed in the IMP for the proposed Dampier Archipelago Marine Park and Cape Preston Marine Management Area.

This was the primary aim and underpins much of the rest of this project, as well as providing the information platform for following projects in the Pluto Offset 'D' program.

A total of 871 datasets were identified during this work. Comprehensive metadata was not available for all of the datasets, which precluded the use of all data in subsequent analyses. Datasets that, for example, lacked positional information could not be displayed on maps, while those lacking sampling dates could not be included in temporal representations.

The highest spatial intensity of research and monitoring, as measured by the density of sampling sites, was mostly concentrated around areas of industrial development, such as the western side of the Burrup Peninsula and off Cape Lambert (Figure 2). Relatively high site densities also occurred around some of the major islands, such as Rosemary Island and west of Gidley and Legendre Islands.

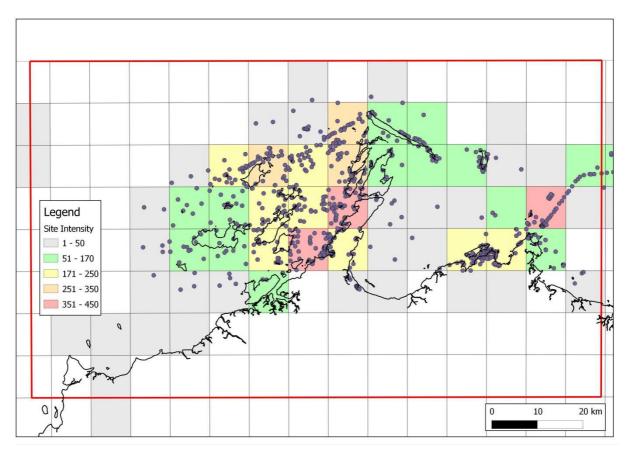


Figure 2 Map showing location of all datasets collected during this project (grey circles). Overlaid is a summary grid showing site intensity in a 10x10 km matrix. The study area is outlined in red. Not all datasets are represented here as some lacked exact positional information.

Some of the major contributors of datasets were industry sources such as Woodside, Rio Tinto, the Dampier Port Authority and Dampier Salt, who have completed long running extensive environmental studies, often as compliance requirements. In most cases these organisations contracted consultants to undertake the work, and some major consulting contributors include MScience, SKM, Astron and LeProvost. Some commonwealth government and state agencies carrying out independent work in the area also supplied datasets, including; AIMS, CALM/DEC/Parks and Wildlife, DoF and the Western Australian Museum, as well as universities. Some of the major organisations undertaking projects in the Dampier are displayed in Table 3.

Contributors					
AECOM/URS	Hamersley Iron				
Apache Energy	Integrated Resource Consultants				
Asia Pacific Applied Science Solutions	LeProvost				
Astron Environmental	Mermaid Marine				
AIMS	Mineralogy Pty Ltd				
Australian National University	MScience				
Australian Premium Iron	Murex Consultants				
Australian United Steel Industry	North West Shelf Joint Environmental Management Study				
Basset	Oceanica				
Biota Environmental Sciences	OEPA				
Blue Planet Marine	Pendoley Environmental				
CALM/DEC/Parks and Wildlife	Pilbara Iron Pty Ltd				
Centre for Marine Futures	QLD Environmental Protection Agency				
CITIC Pacific Mining	Rio Tinto				
Conservation WA	Robe River Iron Associates				
Commonwealth Scientific and Industrial Research Organisation	SKM				
PPĂ	TD Meager and Associates				
Dampier Salt Limited	Water Corporation				
Department of Environment, Water, Heritage and the Arts	WAM				
Department of Water	Woodside Energy Ltd				
Ecologia	Worley Parsons				

Table 3 List of the major organisations who have carried out research/monitoring in the study area. A full list of acronyms and their definitions can be found on page vii.

An assessment of the temporal spread of datasets, shows peaks in abundance of data collection correlating well with the timing of major human activities occurring in the region. In most cases an increase in dataset frequency tends to coincide with major works, which accompany elevated levels of shipping, dredging and construction. For example, the majority of Woodside's development occurred between 2000 and 2010 and as a result there was an increase in monitoring data from this time (Table 4). Other activities have also resulted in increased data collection over time. In the late 1990s, for example, the Western Australian Museum was funded to undertake a large scale marine biological survey of the area which made a significant contribution to records of the area. Overall, there has been a steady increase in the creation of datasets since the early 1970s, reflecting the increasing use of the area with related pressures, and/or more rigorous compliance requirements imposed on developments.

	1970-74	1975-80	1981-84	1985-90	1991-94	1995-00	2001-04	2005-10	2011-
Coral	4	5	9	10	5	10	40	74	19
Fish	1	4	6	1	2	1	8	14	1
Inverts	1	4	5	2	3	4	32	10	7
ISMC	0	1	8	6	6	3	4	8	6
Mangroves	0	2	10	11	9	8	16	21	14
SSBC	0	2	1	0	2	1	5	11	9
Turtles	0	1	2	8	11	12	10	30	16
Water quality	1	2	13	8	9	15	37	64	18
Non-KPI	0	5	6	8	12	17	26	66	28
Total	7	26	60	54	59	71	178	298	118

Table 4 Temporal representation of research and monitoring carried out in the study area. This is divided into individual Key Performance Indicators (KPIs) as identified in the IMP.

After 2010, the number of datasets declined somewhat (Table 4). Not all data requested has been represented here as not all identified studies/datasets have been received. Although it is envisaged that most datasets have been identified and accounted for, it is likely that additional datasets will be uncovered in the future.

3.2 Aim P(ii):

Construct historical time-series of relevance to the conservation of the marine biodiversity and the management of human use of the proposed Dampier Archipelago Marine Park and Cape Preston Marine Management Area

This project focused on collecting datasets for the KPIs listed in the IMP and prioritizing them for data extraction.

Table 5 shows the total number of datasets collected to date for each asset.

Table 5 Total number of datasets identified for each asset, catagorised according to KPIs listed in the IMP

Assets	Datasets identified
Coral Communities	175
Finfish	30
Invertebrates	53
Intertidal Sand and Mudflat Communities	13
Subtidal Soft-bottom Communities	23
Mangrove Communities	48
Turtles	76
Water Quality	151
Non-KPIs	146

3.2.1 Coral

Coral communities are widely distributed throughout the Dampier Archipelago with the most diverse coral areas being found on the seaward slopes of Delambre Island, Hamersley Shoal, Sailfish Reef, Kendrew Island and north-west Enderby Island (Griffith 1998). The area is the second most diverse region for hard corals in Western Australia, with coral reef habitats representing 8% (approx. 18300 ha) of the major marine habitats and comprising 229 scleractinian coral species from 57 genera (Griffith 1998). This high diversity of corals may be attributed to the variety of substrates and oceanographic conditions in the proposed reserves, which range from exposed reefs with high wave action, clear water and low sediment deposition rates on the seaward coasts of the outer islands, to the sheltered areas further inshore with high sediment deposition rates and turbid waters (Griffith 1998; Department of Conservation and Land Management 2005).

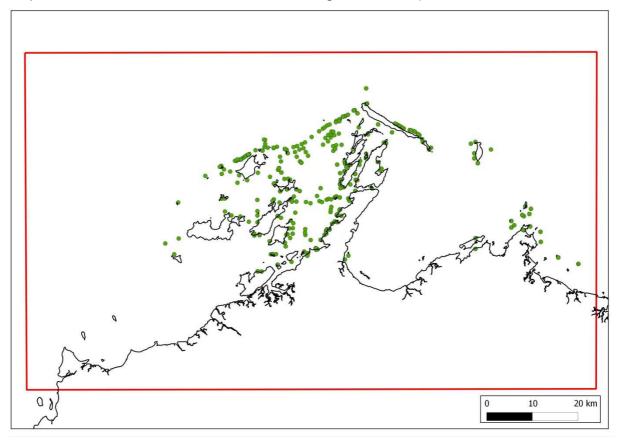


Figure 3 Location of all coral datasets. The study area is outlined in red. Only datasets with adequate location information are included.

For coral, 210 datasets were identified as potentially useful through the initial data search (Figure 3; Appendix 2 Table 1). Of these datasets 169 were assessed as likely to contain data on specific metrics of interest (Table 6). At present, 175 datasets have been collected. In the 1970s and 80s, coral data was limited, but in the late 1990s and 2000s there was an increase in the number of projects being undertaken, with at least 93 between 2005 and 2009. Of the datasets collected for coral, 90.2% of studies came from industry sources while only 9.8% came from non-industry sources, mainly government. Therefore, it is likely that the increase in

projects with time is associated with increasing industrial development and increased environmental monitoring requirements.

Table 6 Priority rankings for coral community datasets within each time period of sampling. The assigned value is a combination of spatial and temporal ranking (Table 2).

Priority	1970-74	1975-79	1980-84	1985-89	1990-94	1995-99	2000-04	2005-09	2010-	Totals
High (>4)	1	0	0	5	3	3	16	35	6	69
Medium (3-4)	1	2	4	4	4	3	25	44	13	100
Low (<3)	0	0	0	0	0	2	0	2	2	6
Requested	0	0	0	1	4	3	10	12	5	35

3.2.2 Finfish

In surveys carried out in 1998-2002 the Western Australian Museum recorded 736 fish species in the Dampier Region (Hutchins 2001; Hutchins 2004). Anthropogenic pressures on fishes in the Dampier Archipelago are likely to be high. The area is very popular for fishing and the adjacent centre of Karratha has high levels of boat ownership (Department of Conservation and Land Management 2005). There are also several major commercial fisheries as well as 80% of Western Australia's aquarium fishery (Department of Fisheries 2013).

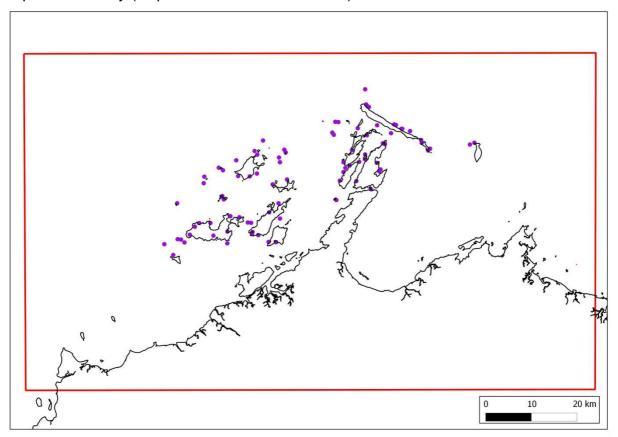


Figure 4 Location of all finfish datasets. The study area is outlined in red. Only datasets with adequate location information are included.

Thirty finfish datasets were identified as potentially useful through the initial data search (Figure 4; Appendix 3 Table 2). Of these datasets 25 were assessed as likely to contain data on specific metrics of interest (Table 7). All datasets have been collected and are under development (from available reports/papers). Data has been collected in every time period from the beginning of the 1970s, with the most data collected between 2005 and 2009. The majority of data relating to finfish populations was collected by the Western Australian Museum, and 60% of finfish datasets come from non-industry sources. It is worth noting that no datasets were discovered that sampled finfish along the mainland coast, this likely reflects the high turbidity in this area and the difficulty for surveying fish in these conditions.

Priority	1970-74	1975-79	1980-84	1985-89	1990-94	1995-99	2000-04	2005-09	2010-	Totals
High (>4)	0	0	0	0	0	0	0	1	0	1
Medium (3-4)	1	2	4	2	2	1	3	8	1	24
Low (<3)	0	1	1	0	0	0	2	1	0	5
Requested	0	0	0	0	0	0	0	0	0	0

Table 7 Priority rankings for finfish datasets within each time period of sampling. The assigned value is a combination of spatial and temporal ranking (Table 2)

3.2.3 Invertebrates

The invertebrate fauna of the Dampier primarily comprises tropical species, which are common throughout the Indo-West Pacific region (Slack-Smith and Bryce 2004). Knowledge of the invertebrate fauna of the Dampier region is incomplete; however, surveys by the Western Australian Museum have collated considerable species lists (Department of Conservation and Land Management 2005). The WAM surveys recorded over 1,227 mollusc species, including 5 regional endemics (Slack-Smith and Bryce 2004), 438 species of crustacean (Hewitt 2004), 275 species of sponge (Fromont 1998), and 286 echinoderm species (Marsh and Morrison 2004).

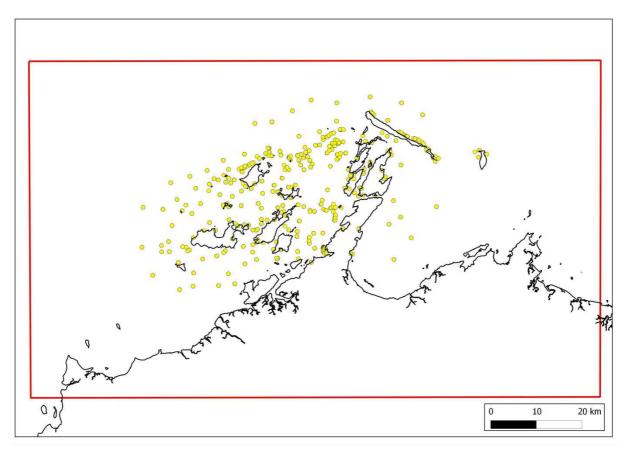


Figure 5 Location of all invertebrate datasets. The study area is outlined in red. Only datasets with adequate location information are included.

For invertebrates, 53 datasets were identified as potentially useful through the initial data search (Figure 5; Appendix 2 Table 3). Of these datasets 49 were assessed as likely to contain data on specific metrics of interest (Table 8). All datasets have been collected and data is being extracted and collated (Gordon 1983)(from available reports/papers). A considerable number of datasets were discovered from 2000-2004. More invertebrate datasets were collected by non-industry sources (57%) than were collected by industry. There are very few studies undertaken along the mainland shore, despite knowledge of the existence of extensive intertidal zones and sponge gardens.

Table 8 Priority rankings for invertebrate datasets within each time period of sampling. The assigned value is a combination of spatial and temporal ranking (Table 2)

Priority	1970-74	1975-79	1980-84	1985-89	1990-94	1995-99	2000-04	2005-09	2010-	Totals
High (>4)	0	2	2	0	2	2	2	0	0	10
Medium (3-4)	0	0	0	0	0	2	23	9	5	39
Low (<3)	0	0	0	1	0	0	1	2	0	4
Requested	0	0	0	0	0	0	0	0	0	0

3.2.4 Intertidal Sand & Mudflat Communities and Subtidal Soft-bottom Communities

Intertidal sand and mudflat communities (ISMC) cover approximately 14% of the proposed reserve, and generally occur in sheltered, relatively low energy environments. Subtidal soft-bottom communities (SSBC) consist of silt and sand and comprise 57% of the major marine habitat in the proposed Dampier marine reserves. Although typically bare, these communities can also support seasonal patches of seagrass. Sediments can range from silt to sand and support a rich variety of burrowing and surface dwelling fauna. Both communities considered of high conservation value (Department of Conservation and Land Management 2005).

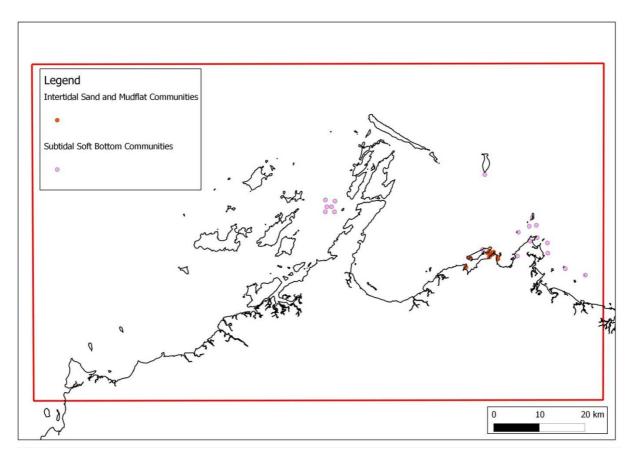


Figure 6 Location of all ISMC (Orange) and SSBC (Pink) datasets. The study area is outlined in red. Only datasets with adequate location information are included.

There were 13 datasets identified for ISMC and 23 for SSBC (Figure 6; Appendix 2 Table 4 and 5), and of these 12 and 10 datasets, respectively, were likely to contain data of interest (Table 9). At present the majority of datasets for ISMC and SSBC have come from industry (72% and 87% respectively). All datasets for ISMC have been collected and are under development and one is still outstanding for SSBC. Data for these assets is spatially and temporally limited, despite the habitat covering a significant portion of the proposed marine reserves. This is likely to be the result of this habitat type being considered to be less sensitive to disturbance from industrial development and as such a less important indicator of change.

Table 9 Priority rankings for ISMC and SSBC datasets within each time period of sampling. The assigned value is a combination of spatial and temporal ranking (Table 2)

Priority	1970-74	1975-79	1980-84	1985-89	1990-94	1995-99	2000-04	2005-09	2010-	Totals
			Intertid	al Sand &	Mudflat C	ommunitie	s			
High (>4)	0	0	0	0	0	0	0	0	0	0
Medium (3-4)	0	1	4	3	0	0	1	1	2	12
Low (<3)	0	1	0	0	0	0	0	0	0	1
Requested	0	0	0	0	0	0	0	0	0	0
			Subt	dal Soft-b	ottom Con	nmunities				
High (>4)	0	0	0	0	2	0	0	0	1	3
Medium (3-4)	0	0	0	0	0	0	4	6	2	7
Low (<3)	0	2	2	0	0	0	0	5	3	12
Requested	0	0	0	0	0	0	0	0	0	1

3.2.5 Mangroves

Over 50% of the mainland shore is lined with complex mangal habitats, comprising six mangrove species that are considered to be of international significance (Semeniuk 1993). Extensive mangrove stands can be found along to coast of Regnard Bay, the Maitland River, King Bay, Nickol Bay and many of the offshore islands. Mangrove communities account for around 3% of the proposed marine reserves (Department of Conservation and Land Management 2005). Early studies by Woodside and Dampier Salt highlight the biological importance of these communities (Gordon 1983). There was a significant loss of mangrove communities associated with the development of the Dampier Salt facility in 1972.

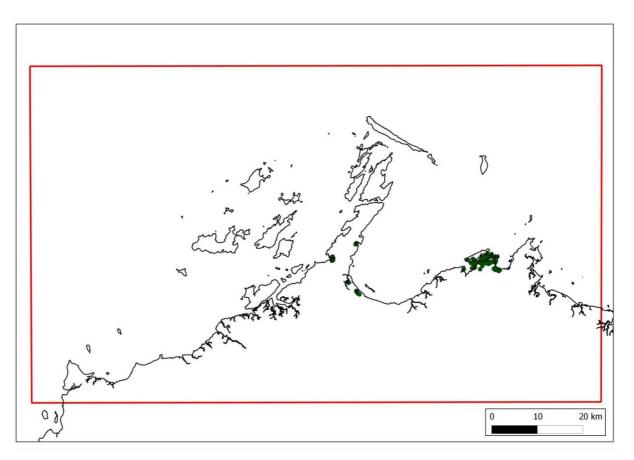


Figure 7 Location of all mangrove community datasets. The study area is outlined in red. Only datasets with adequate location information are included.

For mangrove communities, 48 datasets were identified as potentially useful through the initial data search (Figure 7; Appendix 2 Table 6). Of these datasets 41 were assessed as likely to contain data on specific metrics of interest (Table 10). All but four datasets have been collected and are under development (from available reports/papers). No data was discovered from the 1970s but since then there has been consistent data collection, with the most sampling occurring been 2000 and 2004. The majority of datasets were collected from industry sources (85%), and most of the work has been carried out around Dixon Island.

In addition to the data presented here, an analysis of historical aerial photography was undertaken. This analysis identified a series of suitable images for use in developing a historical time-series dataset of mangrove extent for selected sites.

Table 10 Priority rankings for mangrove community datasets within each time period
of sampling. The assigned value is a combination of spatial and temporal ranking
(Table 2)

Priority	1970-74	1975-79	1980-84	1985-89	1990-94	1995-99	2000-04	2005-09	2010-	Totals
High (>4)	0	0	4	2	2	2	3	1	1	15
Medium (3-4)	0	0	6	3	0	0	7	7	3	26
Low (<3)	0	0	0	0	0	0	0	2	1	3
Requested	0	0	0	3	0	0	1	0	0	4

3.2.6 Turtles

Five of the seven globally recognised turtle species have been recorded within the proposed reserves. Not only is this area important for transiting turtles but a number of islands and beaches in the area are important turtle nesting sites (Department of Conservation and Land Management 2005). Parks and Wildlife supports significant turtle research and monitoring, and has managed a turtle related database since 1986-87. The principle turtle research and monitoring in the Dampier has occurred at Rosemary Island (Figure 8). Rosemary Island hawksbill, and to a lesser extent flatback and green turtles, have been tagged and monitored regularly since the 1986-87 season by Parks and Wildlife. Also since 2005, flatback turtles have been tagged and monitored at Cape Lambert, primarily by Rio Tinto. The Cape Lambert project was extended to include Delambre and Legendre Islands in 2008.

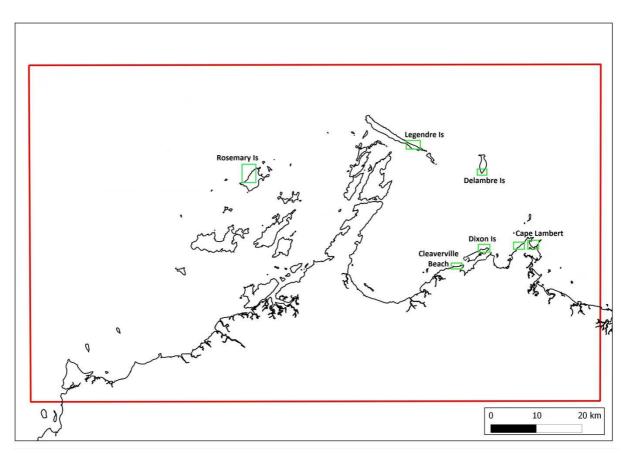


Figure 8 Location of turtle nesting surveys undertaken in the region. The study area is outlined in red.

3.2.7 Water quality

Water quality is one of the most data rich assets in the study area, and can be categorised as an asset with value to the management of a park, as well as pressure acting on other assets. Water is the medium that transports asset propagules/larvae, which is critical for connectivity. The physiochemical properties of water regulate asset distribution and abundance patterns. But water also transports chemicals and has physical attributes that are potential stressors for assets, underlining the importance of collecting and collating data for monitoring water quality. Due to the significance and varied roles each water quality parameter plays in marine systems, more detailed results are presented here. This project discovered datasets encompassing a wide range of water quality parameters but the main results were for:

- Turbidity sampling by Dampier Port Authority, ChEMMS, Woodside, LeProvost, TD Meagher, MScience and more.
- Hydrocarbons ChEMMS program compiled a lengthy time-series of hydrocarbons in sediment and oysters, also Woodside and Dampier Port Authority have ongoing monitoring that measures for hydrocarbons
- Water Temperature Consistent datasets dating back to the late 1990s with Dampier Port Authority, Woodside and Rio Tinto

 Wave height – Potential for historically modelled wave data, as well as Dampier Port Authority and Woodside.

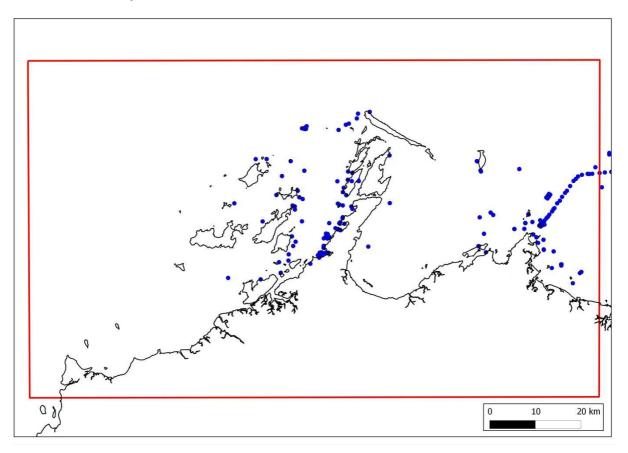


Figure 9 Location of all water quality datasets. The study area is outlined in red. Only datasets with adequate location information are included.

The highest number of datasets was discovered for water quality, with 151 datasets identified as potentially useful through the initial data search (Figure 9; Appendix 2 Table 7). Of these datasets 129 were assessed as likely to contain data on specific metrics of interest (Table 11). All but nine datasets have been collected and are data is being extracted and collated (from available reports/papers). The majority of data was collected between 2005 and 2009, and no data were collected in the 1970s. More than 70% of datasets were collected by industry sources.

Table 11 Priority rankings for water quality datasets within each time period of sampling. The assigned value is a combination of spatial and temporal ranking (Table 2)

Priority	1970-74	1975-79	1980-84	1985-89	1990-94	1995-99	2000-04	2005-09	2010-	Totals
High (>4)	0	0	4	4	4	0	2	14	5	33
Medium (>2)	0	0	15	1	1	1	17	56	5	96
Low (<3)	0	0	3	1	1	0	0	8	0	13
Requested	0	0	3	1	1	0	0	3	1	9

3.2.8 Non-KPIs

The IMP also incorporates a series of Non-KPI assets, and their conservation is a management objective of the proposed marine reserves. Other marine communities, encountered during data prospecting (Table 12; Appendix 2 Table 8) include:

- Geomorphology
- Sediment quality
- Macroalgal and seagrass communities
- Rocky shore communities
- Marine Mammals (cetaceans and dugongs)
- Seabirds and shorebirds

A total of 146 datasets were encountered that contained information about non-KPI assets (Table 12).

Asset	1970- 1974	1974- 1979	1980- 1984	1985- 1989	1990- 1994	1995- 1999	2000- 2004	2005- 2009	2010-	Total
Geomorphology	0	0	1	0	1	0	0	0	0	2
Sediment quality	0	0	3	4	3	3	7	15	1	36
Macroalgae and seagrass communities	0	2	1	1	1	4	7	15	3	34
Rocky shore communities	0	0	1	2	2	2	7	1	0	15
Marine mammals (cetaceans)	0	2	1	1	3	5	4	12	2	30
Marine mammals (dugongs)	0	0	1	2	0	2	5	7	1	18
Seabirds	0	1	0	1	2	2	3	1	1	11
Total	0	5	8	11	12	18	33	51	8	146

Table 12 List of other asset datasets discovered during the project which were not listed as KPIs in the IMP

The majority of non-KPI datasets were collected between 2005 and 2009, but many datasets were also collected in the five years prior to 2005 (Table 12). Since 2010 only 8 datasets have been collected that do not include KPIs. Sediment Quality is consistently one of the highest sampled non-KPI assets.

As with many of the KPI assets, industry was generally the biggest supplier of datasets. In the case of sediment, rocky shores, and cetaceans there was considerably more data collected by industry than other sources. This information is presented in Table 13 since there were multiple assets listed under the non-KPI.

Asset	Industry	Non-Industry
Geomorphology	0	2
Sediment quality	33	5
Macroalgae and seagrass communities	22	19
Rocky shore communities	8	4
Marine mammals (cetaceans)	12	18
Marine mammals (dugongs)	9	11
Seabirds	7	5
Totals	91	64

Table 13 Number of non-KPI asset datasets which were collected from industry and non-industry sources.

3.3 Aim P(iii):

To ensure data is summarised, archived, made accessible and broadly presented to Government, industry and the local community

A significant component of the project was the design and implementation of a data catalogue and automated reporting framework that aligns with Departmental information management policies. This aim falls within the Marine Science Information Management (MSIM) framework of which the main goals (Figure 10) are:

- Data shall be discoverable and accessible;
- Information extracted from data must be reproducible, and the process shall be automated;
- Knowledge gained from interpretation of that information must be transparently gained, so that;
- Wisdom accumulated from a solid knowledge base is defensible and auditable and can be used to advise policy and inform stakeholders.

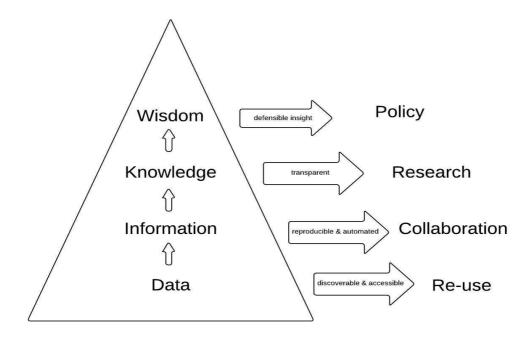


Figure 10 The framework for Marine Science Information Management, implemented by the Marine Science Program.

Marine Science Program utilises a web based data storage and transfer system allowing knowledge access and sharing. A data catalogue based on CKAN has been created as a secure data repository and an internal storage mechanism for datasets. This data catalogue was specifically designed to achieve the goals outlined in Pluto Offset 'D'. Other applications have been utilised to streamline the data sharing and report writing processes. The Pluto Offset 'D' project has been incorporated into the system and is part of a larger network knowledge sharing strategy.

The purpose of a data catalogue is to:

- make data discoverable and accessible to authorised end-users
- protect data from unauthorised access
- preserve meaning and context of data through metadata beyond the life span of the data collection phase and the involved team
- facilitate re-use of data and data products by other teams multiple times
- provide a safe and secure cataloguing and archiving solution for datasets

At present, all data collected in this project is stored securely behind a Departmental firewall and can only be accessed through the intranet by Parks and Wildlife staff.

In all cases where datasets included latitudes/longitudes this data was stored in shape files through the use of the QGIS software as well as being georeferenced in the data catalogue. This will assist other Pluto Offet 'D' projects by displaying data availability spatially. Where datasets contain spatial information, these can be georeferenced in the catalogue on three levels: dataset, study sites, observations.

To assist the knowledge sharing aspect of this objective, a Report Automation Framework has been created and implemented within Marine Science Program. The

Report Automation Framework provides users with in-browser access to programming which collates compiles and presents datasets stored within the data catalogue. The Report Automation Framework is currently used for science reporting that informs the MPRA audit process for WA's marine parks and reserves. When the proposed Dampier marine reserves are created, the framework will enable data collected in this project to be fed into the annual MPRA reporting.

Reports and datasets collected as part of Pluto Offset 'D' project 'i' have been archived in the bibliographic management software Zotero (Appendix 3).

3.4 Aim P(iv):

To assist the design and implementation of Pluto LNG Project Offset 'D' projects (ii), (iii) and (iv)

Work has commenced on project 'iv', the establishment of long-term monitoring reference sites in the proposed Dampier Archipelago Marine Park and Cape Preston Marine Management Area. Work has been undertaken to select sites based on the historical data identified, assessed and collated through Pluto Offset 'D' project 'i'. Coral and fish monitoring sites have been selected based on percent cover and species richness, as well as that the frequency and length of time a site has been monitored which allows scientists to hind-cast condition and pressure metrics. Pressure variables found within datasets, such as water quality and proximity to development projects can also advise site selection for a monitoring program designed to assess impacts of anthropogenic pressures.

Historical data is also being compiled for these areas with the aid of the findings of project 'i'. In some cases, historical data indicated that proposed sites were inappropriate based on descriptions of the sites and benthic cover; however, this allowed for the selection of new sites. Further *in situ* verification may render other sites inappropriate; for example as a result of environmental factors such as currents and wave exposure. The data collated in project 'i' will quickly assist with the selection of secondary sites with appropriate characteristics and historical time series. Results from project 'i' are also currently being used to draft a monitoring prioritisation matrix and pressure risk assessment, which will be used to focus research and monitoring effort in the other three projects.

Preliminary work has also commenced on projects 'ii' and 'iii', with the assistance of the findings from this work. The results of this study have provided information on knowledge gaps, and has highlighted areas where dedicated research is required.

All outputs from other parts of project will be added to the data catalogue.

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Appendix 1 Ministerial Statement 757 Schedule 6

Schedule 6

Schedule 6 - Summary of the Proponent Offsets

OFFSET	GOVERNANCE	TIMELINE	COST
The management and monitoring of the proposed conservation zone at Site A for the life of the project and identification of the long-term conservation outcome post project completion	WEL and DEC to agree management and monitoring scope. WEL to implement.	Ongoing for the life of the project.	\$30,000 p.a. management and monitoring costs during construction phase (2008-10). Ongoing operational costs to be
post project completion.			reevaluated following initial monitoring and maintenance phase.
Rehabilitation/restoration of degraded areas that fall both outside of the lease and outside areas of potential industrial development. Woodside to work with DEC to identify potential rehabilitation areas.	WEL and DEC to agree scope of rehabilitation areas and criteria.WEL and DEC to agree the mechanism for implementation from one of three options:1. WEL implementation2. DEC implementation3. Contractor implementation	Commence in 2008. Reevaluation post construction phase.	\$70,000 for establishment of a restoration program in 2008. \$30,000 p.a. maintenance and monitoring costs during remaining construction phase (2009-13). Ongoing operational costs to be reevaluated following initial monitoring and maintenance phase.
Taxonomic studies on the 37 flora species of conservation significance (undescribed, poorly known, taxonomic problem taxa) on the Burrup.	WEL and DEC to agree scope. DEC funded to undertake taxonomic studies as the capacity, facilities and skills are readily available at the WA Herbarium	Completed by DEC 2008.	\$250,000
Research and monitoring consistent with the Indicative Management Plan for the Dampier Archipelago Marine Park.	WEL and DEC to agree scope. DEC funded to undertake research in collaboration and partnership with other key partners.	2008-2012	(\$3.8 million (\$760,000 pa)
Improving capacity within government and the private sector to manage dredging impacts on tropical coral reef communities involving: Phase 1. the acquisition of field data, and Phase 2. the acquisition of laboratory- generated data.	WEL and DEC to agree scope. WEL to implement.	Before, during and following dredging.	Phase 1 - \$2.6 M Phase 2 - \$600,000
Genetic work to resolve taxonomic uncertainties in relation to Rhagada sp 12	University of Western Australia commissioned to undertake this project (in consultation with DEC and WAM).	2008-2011	\$100,000
Enthno-botanical study to examine likely links between past habitation and use of botanical resources on Woodside leases.	WEL and DEC to agree scope. WEL to implement.	2007-08	\$150,000

Appendix 2 Table 1 Identified and prioritised datasets for coral reef communities in the study area ordered by year of publication

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CRC114	Acute sedimentation causes size-specific mortality and asexual budding in the mushroom coral, Fungia fungites	2002	Gilmour. James P.		Composition			ai aponaj		
	Substantial asexual recruitment of mushroom corals contributes little to population genetics of adults in conditions of chronic sedimentation [Marine Ecology Progress Series, Vol 235: 81-									
CRC195		2002	Gilmour, James P (UWA)							
CRC059	A review of the oceanography of the Dampier Archipelago,Western Australia	2003	Pearce A et al							
CRC079	Dampier Port authority dredging project; bethic coral community monitoring - baseline data report	2003	MScience							
CRC084	Dampier Coral Habitat Desktop Study. Unpublished technical note by IRC Environment for Hamersley Iron Pty Limited, Perth, WA.	2003	IRC Environment	1						
	Survey of Corals East of Parker Point.", Unpublished technical note by IRC Environment for Hamersley Iron Pty Limited, Perth, WA.	2003	IRC	1						l
CRC087	Hamersley Iron Dredging Project: Benthic Coral Community Monitoring - Baseline Data Report." MSA07R1, Unpublished report to Hamersley Iron by Mscience Pty Ltd, Perth, WA.	2003	M-Science	1	1					
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	Review of Coral Surveillance Monitoring for the ChEMMS Programme. Report prepared for Woodside.	2003	URS Australia	4						
CRC128		2003	Fred E. Wells and Diana I.	1						
CRC185	Introduction to the marine environment of Dampier, Western Australia [In: The Marine Flora and Fauna of Dampier, Western Australia]	2003	Walker							
	A general description of the subtidal habitats of the Dampier Archipelago, Western Australia [In: Jones DS (Ed), 2004, A Report on the Results of the Western Australian Museum/Woodside Energy Ltd. Partnership to explore the Marine Biodiversity of the Dampier Archipelago Western Australia Museum Supplement no.66]	2004	Morrison PF (SKM / WAM)	1	1				1	1
CRCOOT	Scleractinian corals collected during 1998 from the Dampier Archipelago, Western Australia [In: Editors: Jones D,S, A Report on the Results of the Western Australian	2004							1	
CRC008	Museum/Woodside Energy Ltd. Partnership to explore the Marine Biodiversity of the Dampier Archipelago Western Australia Supplement no.66]	2004	Griffith JK		1				1	
	Dampier Port Upgrade Project: Coral Studies." MSA08R1, Unpublished Report to Hamersley Iron Pty Limited by Mscience Pty Ltd, Perth, WA.	2004	M-Science	1	1				1	
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CRC093	Cape Lambert Tug Harbour: Benthic Coral Community Monitoring Baseline Data report [Mscience report MSA25R1]	2004	MScience	1	1				1	
000417		0004	International Risk							
	Survey of seabed habitat damage from dredging and pipelay barge anchoring during TSEP pipeline installation. Report prepared by IRC Environment for Woodside.	2004	Consultants Environment							l
	Dampier Port Upgrade to 95 mtpa, Coral health Monitoring, Interim Data Report mid - July 2004 [M-Science Report MSA15R8, Appendix A Coral Monitoring July Interim Survey, Dampier Port Upgrade to 95 mtpa Capacity Monthly Marine Monitoring Report July 2004. SKM report to Hamersley Iron. Associated with MAS638]	2004	M-Science	1	1					
	TSEP Pipeline Coral and Water Quality Monitoring Final Report, Report prepared by IRC Environment for Woodside [Associated with MAS482]	2004	IRC Environment	1	1					
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CRC166	Archipelago Western Australia 1998 - 2002. Records of the Western Australian Museum Supplement No.66.]	2004	DS (WAM)					1	?	4
CRC167	Bulk Liquids Berth Project: Species-specific assessment of coral mortality during dredging: July 2004 [Prepared for Dampier Port Authority]	2004	M-Science							
CRC178	Dampier Port Upgrade tp 95 mtpa, Coral health Monitoring, Interim Data Report - July 2004 [M-Science Report MSA15R9, Appendix B Coral Monitoring July Data Report, Dampier Port Upgrade to 95 mtpa Capacity Montly Marine Monitoring Report July 2004. SKM report to Hamersley Iron. Associated with MAS638.]	2004	Mscience	1	1					
CRC179	Dampier Port Upgrade tp 95 mtpa, Coral Health Monitoring, Interim Data Report - early September 2004 [M-Science Report MSA15R12, Appendix A Coral Monitoring September Interim Survey, Dampier Port Upgrade to 95 mtpa Capacity Montly Marine Monitoring Report September 2004. SKM report to Hamersley Iron. Associated with MAS638.]	2004	Mscience	1	1					
	Dampier Port Upgrade tp 95 mtpa, Coral Health Monitoring, Interim Data Report - Mid September 2004 [M-Science Report MSA15R15, Appendix ? Coral Monitoring September Interim									
	Survey, Dampier Port Upgrade to 95 mtpa Capacity Montly Marine Monitoring Report September 2004. SKM report to Hamersley Iron. Associated with MAS638.]	2004	Mscience	1	1					
	Dampier Port Upgrade tp 95 mtpa, Coral Health Monitoring, Data Report - September 2004 [M-Science Report MSA15R16, Appendix B Coral Monitoring September Data Report,	0004								
CRC181	Dampier Port Upgrade to 95 mtpa Capacity Montly Marine Monitoring Report September 2004. SKM report to Hamersley Iron. Associated with MAS638.]	2004	Mscience	1	1					l
CRC182	Water Quality Monitoring Data [Appendix E, Dampier Port Upgrade to 95 Mtpa Capacity, Monthly Marine Monitoring Report, July 2004, Final (SKM report - DPU-REF-125 Rev B). Associated with MAS 638]	2004	SKM							
	Water Quality Monitoring Data [Appendix F, Dampier Port Upgrade to 95 Mtpa Capacity, Monthly Marine Monitoring Report, September 2004, Final (SKM report - DPU-REF-125 Rev B). Associated with MAS 638]	2004	SKM							
	Scleractinian corals of the Dampier Port and Inner Mermaid Sound: Species list, community composition and distributional data [in Stoddart, J.A. and Stoddart, S.E. (eds) Corals of the		Blakeway DR and Radford							
CRC033	Dampier Harbour: Their Survival and Reproduction during the Dredging programs of 2004]	2005	В		1					
000004	Patterns of Mortality from natural and anthropogenic infulences in Dampier corals [in Stoddart, J.A. and Stoddart, S.E. (eds) Corals of the Dampier Harbour: Their Survival and	0005		4						
CRC034	Reproduction during the Dredging programs of 2004] Rapid high-precision monitoring of coral communities to support reactive management of dredging in mermaid sound, dampier, western australia [in Stoddart, J.A. and Stoddart, S.E.	2005	Blakeway DR	1	1					
CRC035	(eds) Corals of the Dampier Harbour: Their Survival and Reproduction during the Dredging programs of 2004]	2005	Stoddart JA et al	1						
	Patterns of reproduction of in-shore corals of the Dampier Harbour, Western Australia, and comparisons with other reefs', [in Stoddart, J.A. and Stoddart, S.E. (eds) Corals of the									
CRC055	Dampier Harbour: Their Survival and Reproduction during the Dredging programs of 2004]	2005	Stoddart JA							
CRC094	Cape Lambert Tug Harbour: Post Dredging Coral Survey June 2005. Unpublished Report to Robe River Iron Associates. MSA25R4	2005	M-Science	1	?					
0000	Monitoring and reporting associated with Ministerial Approval Statement 702 for Hamersley Iron Pty Ltd - Hamersley Iron Dampier Port Upgrade to a Throughput Capacity of 120 million	0005								
	Tonnes Per Annum	2005								
	Woodside Dredging Program Coral Monitoring Baseline: September 2005. Report prepared for Woodside.	2005	M-Science							
	Chemical and Ecological Monitoring of Mermaid Sound Annual Report 2004. Report Prepared for Woodside Energy Limited.	2005	URS Australia	1	1					
CRC130	Chemical and Ecological Monitoring of Mermaid Sound Annual Report 2005. Report Prepared for Woodside.	2005	URS Australia							
CRC150	Water quality, plume modelling and tracking before and during dredging in Mermaid Sound, Dampier, Western Australia [in Stoddart, J.A. and Stoddart, S.E. (eds) Corals of the Dampier Harbour: Their Survival and Reproduction during the Dredging programs of 2004]	2005	Stoddart JA and Anstee S							
CRC168	Coral Distribution in the Port of Dampier [Unpublished report by MScience Pty Ltd for the Dampier Port Authority, MSA50R1, Dampier, WA]	2005	M-Science							
	Assets of the marine and coastal environment of the Dampier Archipelago, Western Australia : a register, July 2005	2005	M-Science							
CRC188	Indicative Management Plan for the Proposed Dampier Archipelago Marine Park and Cape Preston Marine Management Area.	2005	DoCLM						1	
CRC196	Cape Lambert Marine Monitoring Program [Mscience report to Pilbara Iron, August 2005]	2005	Mscience							
CRC042	Post dreding coral habitat survey in the mermaid sound ; survey 3 [Associated with MAS644 - Mscience Report MSA15R29]	2006	M-Science	1	1					
CRC043	Dampier Port Upgrade Project Coral Studies [MScience Report MSA08R1v3. Associated with MAS702.]	2006	M-Science	1	1					
CRC095	Cape Lambert Upgrade Sampling and Analysis Plan Report Rev 1 20 January 2006. Prepared for the Robe River Iron Associates.	2006	SKM							
CRC103	Monitoring and reporting associated with Ministerial Approval Statement 731 for Hamersley Iron Pty Ltd - Hamersley Iron Dredging Program for the Dampier Port Upgrade	2006								
CRC125	Pluto LNG Development: Coral Assessment Model Two. Report prepared for Sinclair Knight Merz.	2006	M-Science							
	Woodside Dredging Program - Post hydraulic dredging coral monitoring report May 2006. Report prepared for Woodside.	2006	M-Science	1	1					
3							I		1	·

				Asset Condition	Indicators of Int	erest	Asset Press	ure Indicators	of Interest*
ID Study/Dataset Title	Publication Year	Author	Coral Cover	Coral Community Composition	Recruitment	Size Frequency	Predation (COTS and drupella)	Bleaching	Pathogens
CRC127 Pluto LNG Development - Marine Baseline Studies: Coral Baseline August 2006. Report prepared for Woodside.	2006	M-Science	1	1			urupenaj		
Dampier coral recovery study: coral recruitment 2006; Report MSA55R1 [Appendix H in: Dampier Port Dredging: Dredging and Dredge Spoil Disposal Management Plan Revision 9, 7		Mscience (Overall report							
CRC153 December 2006, SKM]	2006	SKM)			1				
CRC169 Woodside Dredging Program: Post Dredging Coral Monitoring Report November 2006 [Report prepared for Woodside Energy Ltd by Mscience Pty Ltd]	2006	M-Science							
CRC170 Pluto LNG Development: Coral Loss Estimate [Report prepared for Sinclair Knight Merz]	2006	M-Science							ł
CRC172 Dampier Port Upgrade Dredging Program 2006: Long Term Coral Habitat Management & Monitoring Program. Unpublished [Report MSA68R1 - Associated to MAS] CRC173 Dampier Port Upgrade Dredging Program Long term Coral habitat Monitoring and Management Plan - Baseline Data. [Report MSA68R2 - Associated with MAS]	2006	M-Science M-Science							<u> </u>
	2000	Jackson, K. J. , Paling, E.							
CRC187 Review of research and data relevant to the marine and terrestrial environment of Dampier	2006	I., Stoddart, J. A.							
Assessing the effectiveness of sanctuary zones in the proposed Dampier Archipelago Marine Park : Data collected during the 2007 survey. Marine Science Program Data Report Series: CRC002 MSPDR6. January 2009.	2007	Armstrong SJ (DEC)	1	1					
CRC027 Pluto LNG Development, Burrup Peninsula [Report and Recommendations of the Environmental Protection Authority, Bulletin 1259, EPA, July 2007. Associated with MAS 757]	2007	EPA							L
CRC031 Dredging program for the cape lambert port upgrade - 85 mtpa Dredging and Spoil Disposal mangement plan, Environmental management Plan Revision 11. [Associated with MAS743]		SKM					1		
CRC040 Cape Lambert Upgrade Dredging Program 2007 : coral health monitoring report survey 16 [Associated with MAS430 and MAS734 M- Science Report MSAS90R24]	2007	M-Science							
CRC046 Dampier Port Upgrade Dredging Program 2006/7 Coral Health Monitoring Report Data Report #26 Dec-07 [MScience report MSA62R29. Associated with MAS731.]	2007	M-Science							
CRC048 Cape Lambert Upgrade Dredging Program 2007 : coral health monitoring report survey 13 [Associated with MAS743 - M-Science Report MSA90R20]	2007	M-Science							
CRC049 Cape Lambert Upgrade Dredging Program 2007 : coral health monitoring report survey 14 [Associated with MAS743 - M-Science Report MSA90R21]	2007	M-Science							<u> </u>
CRC050 Cape Lambert Upgrade Dredging Program 2007 : coral health monitoring report survey 12 [Associated with MAS743 - M-Science Report MSA90R19]	2007	M-Science	-						<u> </u>
CRC064 Cape Lambert Upgrade Dredging Program 2007 : coral health monitoring report survey 09 [Associated with MAS743 - M-Science Report MSA90R16]	2007	M-Science M-Science						2	2
CRC065 Cape Lambert Upgrade Dredging Program 2007 : coral health monitoring report survey 11 [Associated with MAS743 - M-Science Report MSA90R18] CRC066 Cape Lambert Upgrade Dredging Program 2007 : coral health monitoring report survey 10 [Associated with MAS743 - M-Science Report MSA90R17]	2007	M-Science						ſ	<u> </u>
CRC067 Cape Lambert Upgrade Dredging Program 2007 : coral health monitoring report survey 6	2007	M-Science							<u> </u>
CRC068 Cape Lambert Upgrade Dredging Program 2007 : coral health monitoring report survey 4	2007	M-Science							
CRC096 Dredging Program for the Cape Lambert Port Upgrade Environmental referral Document. Prepared for the Robe River Iron Associates (Appendix B Coral Health Monitoring Plan)	2007	SKM	1						
CRC109 Monitoring and reporting associated with Ministerial Approvals Statement 743 for Robe River Iron Associates - Dredging Program for the Cape Lambert Port Upgrade	2007	5RM							
CRC112 Dampier Port Environmental Monitoring GIS May 2007 (Report to Dampier Port Authority)	2007	M-Science							
CRC134 Pluto LNG Development, Coral Habitat Survey, 2007	2007	M-Science	1						
CRC151 Post dreding coral habitat survey in the mermaid sound, Final May 2007 [MScience Report MSA15R30. Associated with MAS644]	2007	M-Science	1	1					
Pluto LNG Development Baseline Water Quality Assessment Report April 2007 [MScience Report MSA61R12 to Woodside Burrup Pty Ltd. Appendix A, Pluto LNG Development Addendum to Public Environmental Report/Public Environmental Review Supplement and Response to Submissions, SKM, Rev 02, 1 June 2007. Appendix 6 (Summary of Submission: and Proponent's Response to Submissions), Pluto LNG Development, Burrup Peninsula, Report and Recommendations of the Environmental Protection Authority, Bulletin 1259, EPA,	3								
CRC155 July 2007. Associated with MAS 757]	2007	Mscience							1
CRC171 Dampier Cargo Wharf Habitat Survey [Prepared for Dampier Port Authority]	2007	M-Science						?	?
Pluto LNG Development, Addendum to public environment report / public environmental review supplement and response to public submissions, Rev 02, 1 June 2007 . [Appendix 6 to									
CRC189 Pluto LNG Development, Burrup Peninsula, Woodside Energy Ltd, Report and recommendations of the Environmental Protection Authority, Bulletin 1259, EPA, July 2007]	2007	Sinclair Knight Merz							
CRC197 Dredging Program for the Cape Lambert Port Upgrade - 85 Mtpa: Long Term Coral Habitat Monitoring and Management Plan [SKM, prepared for Robe River Iron Associates]	2007	SKM	1	1					
CRC200 Pluto LNG Development Marine Baseline Studies: Final Report [Draft Mscience report MSA61R14. Associated with MAS 757]	2007	Mscience	1	1	1				<u> </u>
Cape Lambert Benthic Habitat Mapping: benthic marine habitats at Cape Lambert West, Bezout, Dixon and Delambre Islands. Supporting Document 7.4, Appendix 1, MSA123R1 [CRC012] [Anketell Point Port Development Proposal Public Environmental Review/draft Public Environment Report].	2008	M-Science	1	1					1
CRC015 Pluto LNG development: bleaching patterns across the pilbara in early 2008 [MScience report MSA93R40. Associated with MAS757 and MAS850]	2008	M-Science	1	1					
Pluto LNG Development Coral Health Monitoring: Interim Review Sept 2008 [Appendix 8 – Phase 1 Coral Health Monitoring Review (MSA93R55), Pluto LNG Project - Ministerial CRC023 Statement 757 Compliance Report 2008. Mscience report MSA93R55. Associated with MAS757]	2008	M-Science		1					
Cape Lambert Port B Development. Abundance and distribution of inter and subtidal benthic habitats in the Cape Lambert area: 2008 Survey. Rev 0, 21 July 2008 [Appendix A10, Cape CRC024 Lambert Port B Development Public Environmental Review. Associated with MAS 840.]	2008	SKM	1		1	1			
Pluto LNG Development Coral Health Monitoring: Survey 8 - March 2008 [MScience report MSA93R20. One report in a series of reports related to coral health monitroing required under									1
CRC026 MAS757Report.]	2008	MScience							
Cape Lambert upgrade dredging program 2007 Coral Health Monitoring Survey - [M-Science reports MSA90R3 - MSA90R22 surveys 2 - 16, plus baseline and final reports. Associated with MAS430 and MAS743]	2008	M-Science							1
Cape Lambert Upgrade Dredging Program 85 mtpa 2008 : Long Term Coral Habitat Monitoring and Management Plan - Post Dredging. Revision 2. 24 April 2008 [Associated with CRC039 [MAS420]	2008	SKM	1	1	1	1		1	
CRC047 Dampier Port Upgrade Dredging Program 2006/7 Coral Health Monitoring Report Data Report #28 Jan-08 [MScience report MSA62R31. Associated with MAS731.]	2008	M-Science							<u> </u>
CRC062 Preliminary assessment of coral communities at selected sites in the proposed Dampier Archipelago Marine Park	2008	Armstrong SJ							
		Leprovost Environmental							
CRC102 Sino Iron Project Marine Management Plan [Prepared for Mineralogy under MAS 635]	2008	Pty Ltd							
CRC136 Pluto LNG Project Baseline Marine Habitat Survey Report Prepared in Accordance with Requirements of Ministerial Condition 6-11 of the Pluto Ministerial Statement	2008	SKM							
CRC139 Pluto LNG Development: Coral Bleaching Assessment - Feb 2008. Unpublished report MSA93R17 by Mscience Pty Ltd to Woodside Burrup Pty Limited	2008	M-Science							
Pluto LNG Project- Baseline Marine Habitat Survey (Drop Camera): Draft Report CMF 2008-002. Unpublished report by the University of Western Australia for Sinclair Knight Mez, Perth CRC162 WA.	2008	? Waddington, K; Meeuwig, JJ; Harvey, ES ?	1	1					1
Pluto LNG - Baseline Marine Habitat Survey, Report Prepared in Accordance with Requirements of Ministerial Condition 6-11 of the Pluto Ministerial Statement, Rev 1, 21 November CRC163 2008	2008	SKM	1	1					
CRC175 Dampier Port Upgrade Dredging Program Long term coral monitoring and management - post-dredging survey 1 [Report MSA68R3- Associated to MAS]	2008	M-Science							
Pluto LNG Development Water Quality Review Report: MSA93R53 [Appendix 6 - Phase 1 Water Qulity Monitoring Review (MSA93R53), in: Pluto LNG Project - Ministerial Statement 75 CRC191 Compliance Report 2008: Pluto Liquefied Natural Gas Development (Site B Option) Burrup Peninsula, Shire of Roebourne]	7 2008	MScience							
Cape Lambert Benthic Habitat Mapping: benthic marine habitats at Cape Lambert west, Bezout, Dixon and Delambre Islands [Appendix 1, 7-4, Anketel Point Port Development Draft									1
CRC192 PER. Mscience report MSA123R1, report to Maunsell Australia Pty Ltd. Associated with MAS 881]	2008	Mscience	1	1					
CRC198 Dredging Program for the Cape Lambert Port Upgrade - 85 Mtpa Marine Final Summary Report Rev 3 28 April 2008	2008	SKM	1	1	1	1			
CRC201 Pluto Development: Offsets Program Status of Zone A Corals in August 2008 [Mscience report MSA101R4. Associated with MAS757]	2008	Mscience	1	1					<u> </u>
CRC202 Pluto Development: Offsets Program Status of Zone A Corals [May 2008 Mscience report MSA101R4. Associated with MAS757]	2008	Mscience	1 1	1					<u> </u>
CRC204 Pluto LNG Development: Offsets Program Comparison of Predicted and Measured Impacts [Mscience report MSA101R3. Associated with MAS757]	2008	Mscience	1	I		I		I	L

		1			Asset Osmalitis	n Indicators of Int		A	ure Indicators	-6
ID	Study/Dataset Title	Publication Year	Author	Coral Cover	Coral Community Composition	Recruitment	Size Frequency	Predation (COTS and drupella)	Bleaching	Pathogens
CRC010	Comparison of the Dampier Port Fringing Reef Benthic Community with Nearby Reef Areas [Dampier Marine Services Facility Assessment on Proponent Information, Appendix 11. Report to the Dampier Port Authority	2009	Worley Parsons	1	1			urupenuy		
	Benthic Habitat Losses within Dampier Archipelago and Implications of this Project [Dampier Marine Services Facility Assessment on Proponent Information, Appendix 15. Report to the Dampier Port Authority	2009	Worley Parsons		?					
CRC022	Dampier Marine service facility; water quality impacts of the pluto program in an area of intesive dredging [M-Science report MSA142R2]	2009	M-Science	1						
CRC025	Pluto LNG Development Coral Health Monitoring: Baseline [Appendix 14 - Baseline coral health monitoring Report, Pluto LNG Project - Ministerial Statement 757 Compliance Report 2008. MScience report MSA93R4. Associated with MAS757]	2009	M-Science	1	1	1			?	?
CRC028	Cape Lambert Port B Development Benthic Primary Producer Habitat (BPPH) monitoring Report (Subtidal) Revision 2 20 August 2009 [Associated with MAS 840]	2009	SKM	1					?	?
CRC029	Public Environmental Review and Draft Public Enviromental Report EPBC Referral Number 2008/4032 Cape Lambert Port B Development March 2009 [Associated with MAS840]	2009	SKM	1					1	1
	Dampier Port Upgrade Dredging Program September 2006, Long Term Coral Habitat Monitoring and Management, Supplementary Post Dredging Survey, September 2009 [MScience report number MSA106R2. Associated with MAS731]	2009	M-Science	1	1	1				
CRC053	Benthic Habitat Report: Dampier Marine Service Facility [Report to the Dampier Port Authority]	2009	Worley Parsons						1	1
CRC100	Benthic Habitat Report: Dampier Marine Service Facility [Report to the Dampier Port Authority]	2009	Worley Parsons							↓
	Pluto LNG Development: Dredging and Spoil Management Plan/Dredge Impact Management Plan (Rev 9, July 2009, SKM)	2009	SKM					?	1	?
CRC176	Dampier Port Upgrade Dredging Program Long Term Coral Habitat Monitoring & Management : Supplementary Post Dredging Survey [Report MSA106R2 - Associated with MAS]	2009	M-Science							
	Dampier Port Upgrade Dredging Program Long Term Coral Habitat Monitoring & Management Program - Final Postdredging Survey. [MScience report MSA106R1- Assocaited with MAS731]	2009	M-Science	1	1	1	1		?	?
CRC203	Pluto Development: Offsets Program Status of Zone A Corals in June 2009 [Mscience report MSA101R5. Associated with MAS757]	2009	Mscience	1	1					↓
CRC013		2010	AECOM	1	1					
CRC017	Anketell Point Port Development Proposal PER/draft PER; Part 3 - Marine Environmental Impact Assessment Section 9: Marine Fauna.	2010	AECOM							L
CRC018	Anketell Point Port Development Proposal PER/draft PART 3 - Marine Enviromental Impact Assessment.	2010	AECOM							ļ
CRC038	Dampier Port Upgrade Dredging Program 2006, Long Term Coral Habitat Monitoring and Management, August, 2010 [MScience report number MSA149R1. Associated with MAS731]	2010	M-Science	1	1	1	1			ļ
CRC097	West Pilbara Iron Ore Project Anketell Point Port Development Proposal Public Environmental Review/draft Public Environment Report. Associated with Ministerial Approval Statement 881	2010	API							
	Future monitoring associated with API West Pilbara Iron Ore Project - Stage 1 Dredge Environmental Management Plan. Appendix 3 Anketell Point Port Development Proposal Public									
	Environmental Review/draft Public Environment Report	2010	API							
CRC108	Monitoring and reporting associated with Ministerial Approvals Statement 840 for Pilbara Iron - Cape Lambert Port B Development - Shire of Roebourne	2010								
CRC137	Reports associated with post dredging benthic habitat Surveys required under condition 850:M6.12-14	2010	?							
	Report on 'Whole of Port Oil Spill Risk Assessment and Response Capability Review'	2010	DPA?							
CRC157	Pluto LNG Project An Evaluation of Dredging Impacts on Coral - November 2007 to February 2010 [Mscience report MSA145R1. Associated with MAS757]	2010	Mscience	1					1	
CRC199	Pluto LNG Development: Final Report on Coral and Water Monitoring [Mscience report MSA93R160. Associated with MAS757] Pluto Development: Offsets Program Status of Zone A Corals in March 2010 [Mscience report MSA101R6. Associated with MAS757]	2010 2010	Mscience Mscience	1	1	1			1	
CRC205 CRC206	Pluto Development. Onsets Program Status of Zone A Corals in March 2010 [Niscience report MSA101R6. Associated with MAS757] Pluto LNG Project An Evaluation of Dredging Impacts on Coral - November 2007 to February 2010 [Mscience report MSA145R1. Associated with MAS757]	2010	Mscience	1	1				1	
	API West Pilbara Iron Ore Project - Stage 1 Bouger Passage Reef Habitat Assessment [Report API-E-U100-EN-REP-0002, 28 April 2011]. Supporting document 7.8, Appendix 2	2010	WISCIEITCE		I				· · · ·	
	An weet in bard indicate robust charge in barding in ba	2011	API	1	1				1	1
CRC058	Seasonality of coral reproduction in the Dampier Archipelago, northern Western Australia	2011	Baird AH Blakeway DR Hurley TJ Stoddart JA							
CRC099	West Pilbara Iron Ore Project Stage 1 Anketell Point Port Development Proposal Section 43A EP Act 1986 Ammendment to Proposal and Responsde to Submissinos/Final PER. Associated with Ministerial Approval Statement 881	2011	API							
CRC110	Management plans, surveys, monitoring and compliance reports associated with Ministerial Approval Statement 868 for DPA - Dampier Marine Services Facility	2011								ļ
	Pluto LNG Development Post Dredging Drop Camera Post Dredge Survey 2011 [M-Science report MSA163R1 - Associated with MAS 757]	2011	M-Science	1	1					ļ
CRC164	Pluto LNG Development Post-Dredging Benthic Habitat Survey Rev 2 28 January 2011	2011	SKM	1	1					ļ
CPC150	Cape Lambert Port B Development Dredging Environmental Marine Monitoring - Water Quality and Coral Health Monitoring Four Weekly Reports # 6 8 9 10 11 15,17,19,22 [Associated with MAS840]	2012	SKM							
	Cape Lambert Port B Development Dredging Environmental Marine - Additional Coral Tagging and Determining Baseline Condition-[Associated with MAS840]	2012	SKM							
	Pluto LNG Development: Baseline Studies for Corals and Sediments. Report prepared for Sinclair Knight Merz	2012	M-Science							
CRC132	Scoping document associated with sedimentation monitoring	?	?							
	Site design report associated with Coral Condition Monitoring Programme	?	?						?	?
CRC135	Reports associated with live coral cover and community structure surveys	?	?							
CRC141	Monitoring reports/summaries and data	?	DPA?							
	Current/past Environmental Management Plans	?	DPA?							
CRC143	Current/past Marine Management Plans	?	DPA?							
CRC144	Documents/reports associated with collaborative reseach with UWA - methods, monitoring result summaries etc.	?	DPA?							
CPC152	Final Report' referred to in section 7.1.7 of the 'Dampier Port Dredging: Dredging and Dredge Spoil Disposal Management Plan' (SKM, 2006. For Hamersley Iron) [Associated with MAS	2	?Environmental consultant, SKM or	2	2			2	2	2
CRC152 CRC113	[731] Woodside Offshore Petroleum ChEMMS monitoring program. Data and reports.	? 1983-?	MScience?	(?			?		
CRC154	Woodside Offshore Petroleum Pty Ltd, 1987. North West Shelf Development Project, Ocean Engineering Database Holdings Report. Document No. A9620RT025. July 1987.	1987+	Woodside Offshore Petroleum							
CRC148	Dampier dredging project: coral monitoring and management plan, Hamersley Iron Pty. Ltd, Western Australia, p. 17.	2003?	M-Science]
CRC149	Temporal and spatial variability of coral recruitment on WA reefs [refers AIMS work from 1995]	2003?	Smith, L.			?]
CRC090	Reports associated with monitoring programs 1, 2, 5, 6, 7 and 8 in the Dampier Operations Marine Managemenbt Program	Annual report?	?							I
CRC078	Coral Spawning in Dampier Habour	In prep	Baird AH Stoddart JA							l
CRC145	Database of survey information	ongoing	DPA							I
CRC147	List of GIS datasets that woud be avabilable and beneficial for the project	ongoing	DPA							

A total of 197 studies/datasets identified to be of relevance to the coral reef communities asset

* For turbidity, sedimentation and water temperature see tables and summaries under 'water quality'.

Appendix 2 Table 2 Identified and prioritised datasets for finfish in the study area ordered by year of publication

		Dublication		Asset Con	dition Indicators	of Interest	Asset Pre	essure Indic	ators of Interest*
ID	Study/Dataset	Publication Year	Author	Community	Community		Fishing	Habitat	
		i eai		Composition	Size Structure	Recruitment	Activity	change	Oceanography
			Dampier Salt						
F018	Environmental assessment of Nickol Bay, Dampier Archipelago : a proposal for trial bitterns discharge	1978	Limited	1					<u> </u>
	The report of a reef fish survey conducted in the Dampier Archipelago during August, 1978 [In: Report on the marine fauna and flora of the Dampier Archipelago : unpublished reports submitted to Meagher		Hutchins JB						
	and LeProvost]	1978	(WAM)						
1 035		1970	Woodside						+
			Offshore						
F042	Draft Environmental Impact Statement and Environmental Review and Management Programme	1979	Petroleum						
			LeProvost,						
			Semeniuk and						
F013	Marine biological monitoring programme, Burrup Peninsula, Western Australia, phase 1	1980	Chalmer	1	1				
			LeProvost,						
		1001	Semeniuk and						
	Marine biological monitoring programme, Burrup Peninsula, Western Australia, phase 2	1981	Chalmer	1	1				
	Supplement to Phase 2 report on Marine Biological monitoring programme Burrup Peninsula, WA. [Appendix 3 In: North West Shelf Gas Development (Woodside) Agreement : interim report on		Woodside Offshore						
	[Appendix 3 in: North West Shell Gas Development (Woodside) Agreement : Interim report on [environmental investigations and monitoring]	1983	Petroleum	1					
1 0 10		1000	Woodside	•					
			Offshore						
F021	Woodside's guide to fishing on the Dampier Archipelago	1984	Petroleum				1		
			CSIRO: fisheries						
F026	The inshore fisheries of the dampier region of north west australia	1984	division				1		
	Community structure and zoogeographic affinities of the coastal fishes of the Dampier region of north-								
F004	western Australia	1985	Blaber SJM etal	1			1		
	CSIRO's north west shelf program indicates changes in fish populations *usefull only if mentions		Australias						
F031	dampier; ok for review for damp based details*	1985	Fisheries						
			Woodside						
E020	Weadaida's guide to fishing on the Domnier Archinglage Mal. II	1000	Offshore						
F020	Woodside's guide to fishing on the Dampier Archipelago. Vol. II	1988	Petroleum					+	P
E051	The marine fishes of north-western Australia	1988	Allen, G. R. and Swainston, R.						
1 001		1900	Woodside						
			Offshore						
F019	Woodside's guide to fishing on the Dampier Archipelago. Vol. III	1992	Petroleum						
F047	A new species of damselfish (genus Pomacentrus from nother-western Australia	1992	Allen, G. R.						
			Oxley WG,					1	
			Christie CA and						
	A preliminary assessment of fish and coral communities on reefs of the Dampier Archipelago. In:	1005	Thompson AA						
	Western Australian Reseach Activities, 1993-1994	1995	(AIMS)	1					<u> </u>
	A new species of cardinalfish (Apogon: Apogonidae) from north-western Australia	1995	Allen, G. R.						
F015		1996	Driscoll P (DoF)					 	ļ!
F049	New records of reef and shore fishes from north-western Australia	1996	Allen, G. R.						<u> </u>
L			Allen, G. R. and						
	A new species of cardinalfishes (Apogonidae) from northern Australia	1996	Morrison, S. M.						<u>ا</u>
F022	FRR 118 – A study in WA's open access and wetline fisheries (1999) [J FIS]	1999	DoF						<u> </u>
			Mattiske and						
F027	a review of dampier coastlines; its resources, uses, and management prepared for hamersly iron	1999	Associates						·'
E04-	Demosion Archinelene (Cone Denotes as in the second stress	0000	Osbourne S and						
FU1/	Dampier Archipelago/Cape Perston regional perspectives	2000	Bancroft K						↓ /
EOAO	Biodiversity of shallow reaf fish assemblages in Western Australia using a ranid equation technique	2001	Hutchins JB (WAM)	1			1		
г040	Biodiversity of shallow reef fish assemblages in Western Australia using a rapid censusing technique	2001		1			1		<u> </u>

Appendix 2 Table 2 Identified and prioritised datasets for finfish in the study area ordered by year of publication

	Preliminary assessment and seasonal fluctuation in the fish biota inabiting the concentrator pods of dampier salt	2002	Molony B				
F039	Port Walcott Baseline Survey for Introduced marine Pests. Report to Robe River Iron and Associates	2002	Ecologia	1	1		
	Checklist of marine fishes of the Dampier Archipelago, Western Australia [In: Wells FE, Walker DI and Jones DS (eds) Proceedings of the twelfth International Marine Biological Workshop : The Marine Flora and Fauna of Dampier, Western Australia. Held in Dampier from 24 July to 11 August 2000. Volume 2]		Hutchins BJ	1			
	Fishes of the Dampier Archipelago, Western Australia [In: Jones DS (2004), A Report on the Results of the Western Australian Museum/Woodside Energy Ltd. Partnership to explore the Marine Biodiversity of the Dampier Archipelago Western Australia 1998-2002. Records of the Western Australian Museum		Hutchins BJ (WAM)	1		1	
	Final Application to the Australia government department of the enviromental and heritage on the northan demersal scalefish managed fishery Against the Guidelines for the Ecologically Sustainable Management of Fisheries	2004	DoF				
	Report on the results of the Western Australian Museum/Woodside Energy Ltd. partnership to explore	2004	Jones DS (WAM)	1			
F028		2005	DoF				
F044		2005	M-Science				
	Indicative Management Plan for the Proposed Dampier Archipelago Marine Park and Cape Preston Marine Management Area.	2005	DoCLM				
F007	Dredging Program for the Dampier Port Upgrade	2006	SKM	?			
		2006	(AIMS), Revill RT (CSIRO) and Sherwood CR (CSIRO) Bulman C	1			
	Review of Research and Data Relevant to Marine Environmental Management of Northwest shelf Trophic webs and modelling of Australia's North West Shelf. NWSJEMS Technical Report 9.	2006 2006	(CSIRO) Bulman C Althaus F, Woolley K, He X,	1			
	The spatial distribution of commercial fishery production on Australia's North West Shelf. NWSJEMS Technical Report 10.	2006	Stephenson P, Little R				
F016	Materials stockpile and handling facilities for Cape Preston	2006	EPA				
F030	A 12 month survey of recreational fishing in the Pilbara region of Western Australia during 1999-2000	2006	Williamson, P.C.; Sumner, N. R.; and Malseed, B.E.				
	Cape Lambert Upgrade: Sampling and Analysis Plan Report. Prepared for the Robe River Iron Associates.	2006	SKM				
F001		2007	Armstrong SJ (DEC)	1	1		
F037		2007	SKM				
F054		2008	SKM	1	1		
	Independent Fauna Observer Final Report for the Pluto LNG Dredging Project IFO Report 2007-2010 [Compliance report 2010]	2010	Blue Planet Marine				
F025	State of the Fisheries reports – all years	1982 -	DoF				
F032	Recreational Fishing trends	No date	Rowley Shoals Marine Park - DEC				

	FMP 111 – Management Options for Pilbara Demersal Line Fishing [online access but some issue currently accessing]	No date	DoF				
F024	FMP 163 – Review of Recreational take of Coral in WA [J FIS]	No date	DoF				
		Unpublished draft manuscript	Harvey ES, Mclean DL, Meeuwig JJ, Baxter K and				
F053	Tropical reef fish assemblages in a modified marine ecosystem	2011 (?)	Chatfield B	1	1		

Appendix 2 Table 3 Identified and prioritised datasets for invertebrates in the study area ordered by year of publication

ID	Study/Dataset Title	Publication Year	Author	Asset Con Indicators o		Indica	Pressure tors of erest
				Abundance	Diversity	ТВА	ТВА
1042	Environmental assessment of Nickol Bay, Dampier Archipelago : a proposal for trial bitterns discharge	1978	Dampier Salt Limited				
	Molluscs of the rocky shores of the Dampier Archipelago [In: Report on the marine fauna and flora of the Dampier Archipelago :						
1051	unpublished reports submitted to Meagher and LeProvost]	1978	Slack-Smith SM (WAM)				
			Woodside Petroleum				
1063	Draft Environmental Impact Statement and Environmental Review and Management Programme	1979	Development Pty. Ltd.				
1076	Marine biological monitoring programme, Burrup Peninsula, Western Australia, phase 2	1981	LeProvost, Semeniuk and Chalmer	1	1		
1018	Heavy metal concentrations in the oysters Saccostrea cuccullata and Saccostrea sp. (probably S. commercialis) from the Dampier Archipelago, Western Australia.	1984	Talbot V				
1021	Seasonal variation of copper and zinc concentration in the oyster saccostrea cuccullata from the dampier archipelago	1986	Talbot,V.				
1062	Shell collecting activities for Kimberley and Pilbara regions	1986	Marshall, K. J.		1		
1064	North West Shelf Gas Development (Woodside) Agreement : interim report on environmental investigations and monitoring 1986	1986	Woodside Offshore Petroleum				
	Two new palaemonid shrimps (Crustacea: Decapoda) from the Australian North West Shelf	1988	Bruce, A. J.				
1071	Two new paraemonid simmps (Crustacea. Decapoda) nom the Adstralian North West Shell	1900	Environmental				
1054	Chemical and Ecological Monitoring of Mermaid Sound June 1991Survey First Annual Report	1991	Consultants				
	A new genus of hemibranchiate sphaeromatid isopod crustacean from tropical Western Australia	1992	Bruce, A. J.				
	Marine Monitoring of Dredging Operations in Mermaid Sound, WA - 1996. Internal report prepared for Woodside Offshore Petroleum	1996	ECOS Consulting				
1000		1000	Reitsema TJ and				
1033	Imposex in Morula granulata as bioindicator of tributyltin (TBT) contamination in the Dampier Archipelago, Western Australia	1999	Spickett JT	?			
	Water Corporation Dampier Marine Environmental Survey, Appendix D, Burrup Peninsula Desalinated Water and Seawater Supplies						
1037	Project, Environmental Protection Statement, Environmental Impact Identification and Management. Rev 0	2001	Astron Environmental	1	1		
1059	Port Walcott Baseline Survey for Introduced marine Pests. Report to Robe River Iron and Associates	2002	Ecologia		1		
1000	Biology of Conus on shores of the Dampier Archipelago, northwestern Australia [In: Proceedings of the twelfth International Marine Biological Workshop : the marine flora and fauna of Dampier, Western Australia : held in Dampier from 24 July to 11 August	2003	Kohn AJ	1			
1009	The Terebellidae, Trichobranchidae and Pectinariidae (Polychaeta) of the Dampier Archipelago, Western Australia [In: Proceedings of	2003					
	the twelfth International Marine Biological Workshop : the marine flora and fauna of Dampier, Western Australia : held in Dampier from 24		Hutchings PA and Avery				
1010	July to 11 August	2003	L		1		
			Roger R. Seapy, Carol				
			M. Lalli and Fred E.				
	Heteropoda from Western Australian Waters	2003	Wells	1	1		
	Feeding ecology of common intertidal Muricidae (Mollusca: Neogastropoda) from the Burrup Peninsula, Western Australia	2003	Tan Koh-Siang	1	1		
1015	The biogeography of Western Australian shallow-water barnacles	2003	Jones DS		1		
10.28	Aspects of the ecology of the mudwhelks Terebralia palustris and T. semistriata in northwestern Australia	2003	Fred E. Wells and Carol M. Lalli				
1020	Aspects of the ecology of the mutaments referrance particine and r. semistriate in northwestern Australia	2003					
1029	Australian Aphelodoris (Mollusca: Nudibranchia): two new species, sperm ultrastructure and a redescription of Aphelodoris greeni Burn	2003	Nerida G. Wilson				
			Anne Brearley, Kashane				
1030	Pholadidae and Teredinidae (Mollusca: Bivalvia) collected from mangrove habitats on the Burrup Peninsula, Western Australia	2003	Chalermwat and Nopadon Kakhai	1	1		
1000	Acute hypo- and hypersaline activity responses relative to zonation of intertidal rocky shore and mangrove gastropods from the Burrup	2000					
1031	Peninsula, Western Australia	2003	Robert F. McMahon				
	Convective cooling by the tropical intertidal chiton, Acanthopleura spinosa (Mollusca: Polyplacophora) from rocky intertidal habitat at		Joseph C. Britton and				
1032	Watering Cove, Burrup Pennisula, Western Australia, Australia	2003	Brian Morton				
1034	Functional morphology and mode of life of Isanda coronata (Gastropoda: Trochidae) in an Australian macrotidal sandflat	2003	Hickman CS				
1035	The behaviour and feeding ecology of a suite of gastropod scavengers at Watering Cove, Burrup Peninsula, Western Australia	2003	Morton B and Britton JC				

ID	Study/Dataset Title	Publication Year	Author	Asset Cor Indicators o		Asset P Indica Inte	
				Abundance	Diversity	ТВА	ТВА
1036	Distribution, abundance and foraminiferal diet of an intertidal scaphopod, Laevidentalium lubricatum, around the Burrup Peninsula, Dampier, Western Australia	2003	Glover E etal				
	A new species of Platydoris (Mollusca: Nudibranchia) from North-Western Australia	2003	Fahey SJ and Valdés A				
	The feeding process in Conus victoriae	2003	Alan J. Kohn				·
	A new arenicolous Copidognathus (Halacaridae: Acari) from Dampier, Western Australia	2003	llse Bartsch				
	A new species of the brevipalpus group, genus Agauopsis (Halacaridae: Acari) from Dampier, Western Australia: description and key to related species	2003	Ilse Bartsch				
	Five new species of the water mite family Pontarachnidae from Western Australia (Acari: Hydrachnidia)	2003	Harry Smit				
	Marine Tubificidae (Oligochaeta) of the Dampier area, Western Australia	2003	Christer Erséus and Hongzhu Wang	1	1		
1048	Grania ocarina sp.n., G. darwinensis (Coates and Stacey) comb.n., and other marine Entchytraeidae (Oligochatea) from the Dampier area, Western Australia	2003	Emilia Rota, Christer Erséus and Hongzhu Wang	1	1		
	Review of Coral Surveillance Monitoring for the ChEMMS Programme. Report prepared for Woodside.	2003	URS Australia				ļ
	Astropecten sumbawanus (Echinodermata: Asteroidea) in Withnell Bay, northwestern Australia (In: The Marine Flora and Fauna of Dampier, Western Australia, Western Australian Museum, Perth)	2003	Wells, Fred E. and Lalli, Carol M.		1		
	A survey of the benthic molluscs of the Dampier Archipelago, Western Australia [In: A Report on the Results of the Western Australian Museum/Woodside Energy Ltd. Partnership to explore the Marine Biodiversity of the Dampier Archipelago Western Australia	2004	Slack-Smith SM and Bryce CW (WAM)		1		
1004	Barnacles (Cirripedia: Thoracica) of the Dampier Archipelago, Western Australia [In: A Report on the Results of the Western Australian Museum/Woodside Energy Ltd. Partnership to explore the Marine Biodiversity of the Dampier Archipelago Western Australia	2004	Jones DS (WAM)		1		
1005	Crustacea (excluding Cirripedia) of the Dampier Archipelago, Western Australia [In: A Report on the Results of the Western Australian Museum/Woodside Energy Ltd. Partnership to explore the Marine Biodiversity of the Dampier Archipelago Western Australia	2004	Hewitt MA (WAM)		1		
1006	Diversity and distribution of subtidal benthic molluscs from the Dampier Archipelago, Western Australia : results of the 1999 dredge survey (DA2/99) [In: A Report on the Results of the Western Australian Museum/Woodside Energy Ltd. Partnership to explore	2004	Taylor JD and Glover EA (WAM)	1	1		
1007	Echinoderms of the Dampier Archipelago, Western Australia [In: A Report on the Results of the Western Australian Museum/Woodside Energy Ltd. Partnership to explore the Marine Biodiversity of the Dampier Archipelago Western Australia 1998-2002.	2004	Marsh LM and Morrison SM (WAM)		1		
1008	Porifera (sponges) of the Dampier Archipelago, Western Australia : habitats and distribution [In: A Report on the Results of the Western Australian Museum/Woodside Energy Ltd. Partnership to explore the Marine Biodiversity of the Dampier Archipelago Western Australia	2004	Fromont J (WAM)		1		
1026	Amphipoda (Crustacea) collected from the Dampier Archipelago, Western Australia [In: A Report on the Results of the Western Australian Museum/Woodside Energy Ltd. Partnership to explore the Marine Biodiversity of the Dampier Archipelago Western Australia	2004	Peart RA (WAM)	1	1		
1038	Other marine invertebrates collected by the diving expedition DA1/98 in the Dampier Archipelago, Western Australia [In: A Report on the Results of the Western Australian Museum/Woodside Energy Ltd. Partnership to explore the Marine Biodiversity of the D	2004	Salotti M, Griffith JK and Fromont J (WAM)				
	Survey of seabed habitat damage from dredging and pipelay barge anchoring during TSEP pipeline installation. Report prepared by IRC Environment for Woodside.	2004	Consultants Environment				
	Chemical and Ecological Monitoring of Mermaid Sound Annual Report 2004. Report Prepared for Woodside Energy Limited.	2004	URS Australia	1	1		
	Chemical and Ecological Monitoring of Mermaid Sound Annual Report 2005. Report Prepared for Woodside.	2005	URS Australia				ا
	Assets of the marine and coastal environment of the Dampier Archipelago, Western Australia : a register, July 2005	2005	M-Science				ا
	Indicative Management Plan for the Proposed Dampier Archipelago Marine Park and Cape Preston Marine Management Area.	2005	DoCLM				ا
1023	Cape Lambert Upgrade Sampling and Analysis Plan Report Rev 1 20 January 2006. Prepared for the Robe River Iron Associates.	2006	SKM	1	1		
1069	Review of research and data relevant to the marine and terrestrial environment of Dampier	2006	Jackson, K. J. , Paling, E. I., Stoddart, J. A.				
1001	Assessing the effectiveness of sanctuary zones in the proposed Dampier Archipelago Marine Park : data collected during the 2007 survey	2007	Armstrong SJ	1			
	Marine sponges of the Dampier Archipelago, Western Australia: patterns of species distributions, abundance and diversity	2007	Fromont J, Vanderklift M and Kendrick G	1	1		
1024	Dredging Program for the Cape Lambert Port Upgrade Environmental referral Document. Prepared for the Robe River Iron Associates	2007	SKM				

Appendix 2 Table 3 Identified and prioritised datasets for invertebrates in the study area ordered by year of publication

ID	Study/Dataset Title	Publication Year	Author	Asset Co Indicators o		Asset P Indicat Inte	tors of
				Abundance	Diversity	ТВА	ТВА
1052	Crustaceans collected by the Western Australian Museum/Woodside Energy Ltd. partnership to explore the marine biodiversity of the Dampier Archipelago, Western Australia, 1998-2002 Marine biodiversity of the Dampier Archipelago, Western Australia, 1998-	2007	Jones DS				
1019	Cape Lambert Port Upgrade_Pre and post disposal infauna monitoring	2008	SKM	1	1		
1073	Pluto LNG - Baseline Marine Habitat Survey, Report Prepared in Accordance with Requirements of Ministerial Condition 6-11 of the Pluto Ministerial Statement, Rev 1, 21 November 2008	2008	SKM	1	1		
1020	Cape Lambert Port Upgrade_12 month post disposal infauna monitoring	2009	SKM	1	1		
1016	Anketell Point Port Development Proposal PER/draft PER; PART 3 MARINE ENVIRONMENTAL IMPACT ASSESSMENT SECTION 9 MARINE FAUNA	2010	AECOM				
1017	West Pilbara Iron Ore Project Stage 1 Anketell Point Port Development Proposal [Associated with MAS881]	2010	AECOM				
1067	King Bay Biomonitoring Report 2009-2010 [Mermaid Marine Annual Compliance Monitoring]	2010	AECOM				
1068	Laboratory Reports. [Appendix A In: King Bay Biomonitoring Report 2009-2010, Mermaid Marine Annual Compliance Monitoring]	2010	AECOM				
1011	API West Pilbara Iron Ore Project - Stage 1 Bouger Passage Reef Habitat Assessment. Supporting document 7.8, Appendix 2 Anketell Point Port Development Proposal Public Environmental Review/Final Public Environment Report	2011	API				
1065	Habitats and Invertebrate Assemblages of Bouguer Passage and their Regional Significance. Supporting document 7.9, Appendix 2 Anketell Point Port Development Proposal Public Environmental Review/Final Public Environment Report	2011	Wilson BR (Murex Consultants)		1		
1074	Pluto LNG Development Post-Dredging Benthic Habitat Survey Rev 2 28 January 2011	2011	SKM	1	1		
1075	Pluto LNG Development Post Dredging Drop Camera Post Dredge Survey 2011 [M-Science report MSA163R1 - Associated with MAS 757]	2011	Mscience	1	1		
	Food of giants – field observations on the diet of Syrinx aruanus (Linnaeus, 1758) (Turbinellidae) the largest living gastropod		John D. Taylor and Emily A. Glover				
1050	Monitoring program and compliance reporting associated with Ministerial 116 for Dampier Solar Salt Field Enhancement						

A total of 69 studies/datasets identified to be of relevance to the invertebrate asset

Appendix 2 Table 4 Identified and prioritised datasets for intertidal sand and mudflat communities in the study area ordered by year of publication

Appendix 2 Table 4 Identified and prioritised datasets for intertidal sand and mudflat communities in the study area ordered by year of publication

ID	Study/Dataset Title	Publication	Author	Asset Cor Indicators o			Pressure s of Interest
10		Year	Additor	Abundance	Diversity	TBD	TBD
ISMC016	Marine biological monitoring programme, Burrup Peninsula, Western Australia, phase 1	1980	LeProvost, Semeniuk and Chalmer	1	1		
			LeProvost, Semeniuk and				
ISMC015	Marine biological monitoring programme, Burrup Peninsula, Western Australia, phase 2	1981	Chalmer Woodside	1			<u> </u>
ISMC005	North West Shelf Gas Development (Woodside) Agreement : interim report on environmental investigations and monitoring 1983 (attachment 3)	1983	Offshore Petroleum	1	1		<u> </u>
ISMC006	North West Shelf Gas Development (Woodside) Agreement : interim report on environmental investigations and monitoring 1984	1984	Woodside Offshore Petroleum				
ISMC013	Heavy metal concentrations in the oysters Saccostrea cuccullata and Saccostrea sp. (probably S. commercialis) from the Dampier Archipelago, Western Australia.	1984	Talbot V				ļ
ISMC007	North West Shelf Gas Development (Woodside) Agreement : interim report on environmental investigations and monitoring 1985	1985	Woodside Offshore Petroleum				
ISMC008	North West Shelf Gas Development (Woodside) Agreement : interim report on environmental investigations and monitoring 1986	1986	Woodside Offshore Petroleum				
	The ecological significance of the blue-green algal mats in the Dampier mangrove ecosystem	1986	Paling E I				
ISMC035	The mangroves of the Dampier Archipelago	1987	Semeniuk, and Wurm	1	1		
ISMC009	North West Shelf Gas Development (Woodside) Agreement : interim report on environmental investigations and monitoring 1989	1989	Woodside Offshore Petroleum				
ISMC010	North West Shelf Gas Development (Woodside) Agreement : interim report on environmental investigations and monitoring 1990	1990	Woodside Offshore Petroleum				
ISMC028	Chemical and Ecological Monitoring of Mermaid Sound June 1991Survey First Annual Report	1991	LeProvost Environmental Consultants				
ISMC011	North West Shelf Gas Development (Woodside) Agreement : interim report on environmental investigations and monitoring 1992	1992	Woodside Offshore Petroleum				
ISMC032	Marine Monitoring of Dredging Operations in Mermaid Sound, WA - 1996. Internal report prepared for Woodside Offshore Petroleum	1996	ECOS Consulting				
ISMC036	Cape Lambert Port Facility Extensions: Marine Environmental Impact Assessment. Report to Robe River Iron Associates by Ecologia Environmental Consultants	1997	Ecologia				
ISMC026	Investigative Sampling at King Bay	1998	Astron Engineering				
ISMC033	Dampier Marine Services Facility Vol.1: Environmental impact identification and management. Unpublished report ref 918-RV-01 to Mermaid Marine Sept 1998	1998	Astron Environmental				<u> </u>
ISMC034	Dampier Marine Services Facility: Environmental Investigations at King Bay. Unpublished report ref 930-RA-01 for Mermaid Marine May 1999	1999	Astron Environmental				<u> </u>
ISMC014	Baseline Survey of Benthic Marine Communities of Cape Preston and Preston Island Appendix A in: Cape Preston Benthic Habitats 2008	2000	Campey & Gilmore				<u> </u>
ISMC020	Dampier Archipelago/Cape Preston regional perspectives	2000	Osbourne,S Bancroft.K				

Appendix 2 Table 4 Identified and prioritised datasets for intertidal sand and mudflat communities in the study area ordered by year of publication

ID	Study/Dataset Title	Publication	Author	Asset Con Indicators of			ressure of Interest
		Year		Abundance	Diversity	TBD	TBD
	Developing a broadscale habitat map for the Montebello/Barrow islands and the Dampier Archipelago/Cape Preston regions : Marine Reserve Implementation, Pilbara : a collaborative project between CALM Marine Conservation Branch and the Pilbara Regional Office	2000	Bancroft KP, Sheridan MW and Davidson JA (CALM)				
		2001	IRC Environment				
ISMC029	Review of Coral Surveillance Monitoring for the ChEMMS Programme. Report prepared for Woodside.	2003	URS Australia				
ISMC030	Chemical and Ecological Monitoring of Mermaid Sound Annual Report 2004. Report Prepared for Woodside Energy Limited.	2004	URS Australia				
ISMC031	Chemical and Ecological Monitoring of Mermaid Sound Annual Report 2005. Report Prepared for Woodside.	2005	URS Australia				
ISMC039	Indicative Management Plan for the Proposed Dampier Archipelago Marine Park and Cape Preston Marine Management Area.	2005	DoCLM				
ISMC038	Review of research and data relevant to the marine and terrestrial environment of Dampier	2006	Jackson, K. J. , Paling, E. I., Stoddart, J. A.				
ISMC003	Cape Lambert Port B Development Abundance and distribution of inter and subtital benthic habitats in the Cape Lambert area: 2008 survey.	2008	SKM/RioTinto		1		
ISMC004	Population dynamics of the western australian solider crab mictyis occidentalis	2008	Unno and Semeniuk	1			
	Cape Lambert Benthic Habitat Mapping: benthic marine habitats at Cape Lambert West, Bezout, Dixon and Delambre Islands. Supporting Document 7.4, Appendix 1, Anketell Point Port Development Proposal Public Environmental Review/draft Public Environment Repo	2008	M-Science				
ISMC023	Cape Lambert Port B Development, baseline intertidal report (for Rio Tinto Iron Ore)	2009	SKM				
ISMC001	Anketell Point Port Marine Benthic Habitat Assessment	2010	AECOM		1		
ISMC024	Anketell Point and Dixon Island Proposed Port Development Area Level 2 Flora and Vegetation Assessment. Supporting document 12.1, Appendix 1 Anketell Point Port Development Proposal Public Environmental Review/draft Public Environment Report	2010	AECOM				
	Future monitoring associated with API West Pilbara Iron Ore Project - Stage 1 Coastal Habitat Management Plan. Appendix 3 Anketell Point Port Development Proposal Public Environmental Review/draft Public Environment Report	2010	AECOM				
ISMC002	Anketell Point Port Development Proposal PER/draft PER;	2011	AECOM				
	Habitats and Invertebrate Assemblages of Bouguer Passage and their Regional Significance. Supporting document 7.9, Appendix 2 Anketell Point Port Development Proposal Public Environmental Review/Final Public Environment Report	2011	Wilson BR (Murex Consultants)		1		
ISMC021	Woodside Offshore Petroleum ChEMMS monitoring program. Data and reports.	1983-?					

A total of 37 studies/datasets identified to be of relevance to the intertidal sand and mudflat communities asset

Appendix 2 Table 5 Identified and prioritised datasets for subtidal soft sediment communities in the study area ordered by year of publication

Appendix 2 Table 5 Identified and prioritised datasets for subtidal soft sediment communities in the study area ordered by year of publication

ID	Study/Dataset	Publication Year	Author	Abundance	Diversity
SSBC001 Ca	pe Lambert Port B Development Benthic primary producer habitat (BPPH) monitoring report (Subtidal)	2009	SKM	1	
			North West		
			Shelf Join		
CROOM Re	inthic habitat dynamics and models on Australia's North West Shelf technical report 11	2000	Enviromental Study		
	ketel Point Port Marine Benthic Habitat Assessment. Supporting document 7.5. Anketell Point Port Development Proposal	2000	Siluay		
	bic Environmental Reviewdraft Public Environment Report	2010	AECOM		
000000110	and Environmental Patrice Distributed report	2010	Wilson BR		
Ha	bitats and Invertebrate Assemblages of Bouquer Passage and their Regional Significance. Supporting document 7.9, Appendix		(Murex		
	Anketell Point Port Development Proposal Public Environmental Review/Final Public Environment Report	2011	Consultants)		5
	seline Survey of Benthic Marine Communities of Cape Preston and Preston Island Appendix A in: Cape Preston Benthic	1.2.2.00	Campey &		
SBC005 Ha			Gilmore	1	
	nthic Primary Producer Habitat Assessment Cape Lambert Upgrade Dredging Programme	2007	SKM	1	
	ater Corporation Dampier Marine Environmental Survey, Appendix D, Burrup Peninsula Desalinated Water and Seawater		Astron		
SBC007 Su	pples Project, Environmental Protection Statement, Environmental Impact Identification and Management	2001	Environmental		
011	ISI Iron Project, Infrastructure Requirements, Consultative Environmental Review, Madigan Point Marine Survey (Marine		LeProvost		
	rvey, Appendix D, In: AUSI Iron Project, Infrastructure Requirements, Consultatiuve Environmental Review March 1996	1996	Dames & Moore		
oborto du	neg, reponde o, ne nove nom region, and searce requestions, search and search and reserves maker rate		Osbourne.S	1	-
SBC009 Da	empier Archipelago/Cape Preston regional perspectives	2000	Bancroft.K		
			Borowaaitzka,	6 S	-
SBC010 Th	e algae and seagrasses of the dampier archipelago	unpublished	MAetal		
	pe Lambert Upgrade Sampling and Analysis Plan Report Rev 1 20 January 2006. Prepared for the Robe River Iron Associates.	2006	SKM	1	
	edging Program for the Cape Lambert Port Upgrade Environmental referral Document. Prepared for the Robe River Iron	1.000			
SBC012 As			SKM		<u> </u>
	phoring and reporting associated with Ministerial Approval Statement 644 for Hamersley Iron Pty Ltd - Hamersley Iron Dredging				
	ogram for the Dampier Port Upgrade mitoring and reporting associated with Ministerial Approval Statement 702 for Hamersley Iron Pty Ltd - Hamersley Iron Dampier	2003			
	mioring and reporting associated with Ministerial Approval Statement, 702 for Hamersley from Pty Ltd - Hamersley from Dampier rt Upgrade to a Throughput Capacity of 120 million Tonnes Per Annum	2005			
	information of the provided of the second	2000			<u> </u>
	moning and reporting associated with withsterial Approval Statement 656 for Hamersley roll Pity Liu - Hamersley incli Dampier rt Upgrade to 95 MTPA Capacity	2003			
	94 LPG Jetty and Ship-Turning Basin Dredging Programme Marine Monitoring Programme Appendix D In: North West Shelf	2000			-
	nture Additional Liquefied Natural Gas (LNG) Fascilities Public Environmental Review (WA) and Public Environmental Report		LeProvost		
	ommonwealth)]	1994	Dames & Moore		
	11 (24 C) ((14 C)		International		
			Risk		
	rvey of seabed habitat damage from dredging and pipelay barge anchoring during TSEP pipeline installation. Report prepared		Consultants		
SBC019 by	IRC Environment for Woodside.	2004	Environment		
			LeProvost		
		26.23	Environmental		
	emical and Ecological Monitoring of Mermaid Sound June 1991Survey First Annual Report		Consultants	-	
SBC021 Re	wew of Coral Surveillance Monitoring for the ChEMMS Programme. Report prepared for Woodside.	2003	URS Australia	-	<u> </u>
680022 Ch	emical and Ecological Monitoring of Mermaid Sound Annual Report 2004. Report Prepared for Woodside Energy Limited.	2004	URS Australia		
	emical and Ecological Monitoring of Mermaid Sound Annual Report 2004, Report Prepared for Woodside Energy Emileo. emical and Ecological Monitoring of Mermaid Sound Annual Report 2004, Report Prepared for Woodside.		URS Australia		-
	final report summarising the results, analyses and interpretation of the particle size distribution monitoring will be provided to the		Cito rastala		
SBC024 DE		2	2		
Ma	arine Monitoring of Dredging Operations in Mermaid Sound, WA - 1996. Internal report prepared for Woodside Offshore		ECOS	-	
SBC025 Per	troleum	1996	Consulting	· · · · · · · · · · · · · · · · · · ·	
		26.070	Astron		
	vestigative Sampling at King Bay	1998	Engineering		
	ports associated with infauna monitoring referred to in section 6.9 of the Dampier Port Dredging: Dredging and Dredge Spoil		SKM?		
SBC027 Dis	sposal Management Plan' (SKM, 2006. For Hamersley Iron) (Associated with MAS 731)	?	Mscience?	?	?
			Woodside		
			Petroleum Development		
SBOD28 De	aft Environmental Impact Statement and Environmental Review and Management Programme	1070	Pty. Ltd.		
	en som som solar in gest storensen, or a som som kannar fyd were driv andriagenter it. Programmer	13/3	r ty. Ltd.		
SBC029 Da	mpler Marine Services Facility. Assessment on Proponent Information	2011	Worley Parsons		1
	nthic Habitat Losses with Dampier Archipelago and Implications of this Project (Appendix 15. In: Dampier Marine Services		and a start of the start of the		
	dity. Assessment on Proponent Information]	2009	Worley Parsons		
SBC031 Be	nthic Habitat Report (Appendix 10 In: Dampier Marine Services Facility. Assessment on Proponent Information	2009	Worley Parsons	1	
			Jackson, K. J.,		
005407/1944 C 005			Paling, E. I.,		
SBC032 Re	wiew of research and data relevant to the marine and terrestrial environment of Dampier	2006	Stoddart, J. A.		
00000		1122201	Morrison, Peter		
580033 A g	general description of the subtidal habitats of the Dampier Archipelago, Western Australia	2004	r.		-
SBC034	feating Management Plan for the Program Dominar Archinelogy Mission Dark and Cook Desitor Marine Management Area	0005	DoCLM		
300034 INC	ficative Management Plan for the Proposed Dampier Archipelago Marine Park and Cape Preston Marine Management Area.	2005	LeProvost.		
			Semeniuk and		
SBOOM Ma	arine biological monitoring programme, Burrup Paninsula, Western Australia, phase 1	1080	Chalmer		
- and shared in the	and a second second by the state of a second s	1004	LeProvost,		
			Semeniuk and		
SBC036 Ma	arine biological monitoring programme, Burrup Peninaula, Western Australia, phase 2	1981	Chaimer		
chart that the local states of the states of			LeProvost		
196	94 LPG Jetty and Ship-Turning Basin Spoil Disposal Programme Marine Monitoring Programme (Report to Woodside. Offshore		Dames and		
	troleum Pty Ltd]	1005	Moore		

Appendix 2 Table 6 Identified and prioritised datasets for mangrove communities in the study area ordered by year of publication

					Asset Con	dition Indic	ators of Inter	est		Pressure of Interest
ID	Study/Dataset	Publication Year	Author	Extent*	Canopy Cover	Tree Density	Foliage Condition	Mortality	Salinity	ТВА
MC001	North West Shelf Gas Development (Woodside) Agreement : interim report on environmental investigations and monitoring 1983 (attachment 1 and 2)	1983	Woodside Offshore Petroleum	1				1	1	
MC002	North West Shelf Gas Development (Woodside) Agreement : interim report on environmental investigations and monitoring 1984	1984	Woodside Offshore Petroleum					1	1	
MC003	North West Shelf Gas Development (Woodside) Agreement : interim report on environmental investigations and monitoring 1985	1985	Woodside Offshore Petroleum							
MC004	North West Shelf Gas Development (Woodside) Agreement : interim report on environmental investigations and monitoring 1986	1986	Woodside Offshore Petroleum						1	
MC005	North West Shelf Gas Development (Woodside) Agreement : interim report on environmental investigations and monitoring 1989	1989	Woodside Offshore Petroleum				1	1		
MC006	North West Shelf Gas Development (Woodside) Agreement : interim report on environmental investigations and monitoring 1990	1990	Woodside Offshore Petroleum							
MC007	North West Shelf Gas Development (Woodside) Agreement : interim report on environmental investigations and monitoring 1992	1992	Woodside Offshore Petroleum							
MC008	Anketell Point Port Benthic Primary Producers [Supporting document 7.6, Appendix 1 Anketell Point Port Development Proposal Public Environmental Review/draft Public Environment Report]	2010	AECOM	1	1					
MC009	Fauna and Flora Survey of Western Lease No. 5976H [Appendix 8, Environmental assessment of the temporary reserves nos. 5975H and 5976H. Prepared for Dampier Salt (Operations) Pty Lyd]	1980	LeProvost, Semeniuk and Chalmer							
MC010	A preliminary study of the mangroves of the Dampier Archipelago, Western Australia	1983	Gordon DM (DCE)		1			1	1	
MC011	Mangrove Condition and Rehabilitation Monitoring Report 2008, Appendix H, Annual Environmental Complaince Report 2009 (AECOM, 2009) [Prepared for Mermaid Marine Pty Ltd under MAS 535 - Upgrade of Marine Services Facility, King Bay, Dampier]	2009	AECOM		1	1				
MC012	2007 Mangrove Monitoring Program [Appendix 7, Annual Environmental Compliance Report 2007, Worley Astron for Mermaid Marine Australia. Associated with MAS 535]	2007	Worley Astron			1				
MC013	Mangrove Rehabilitation Programme Status Report December 2001 [Prepared for Mermaid Marine Australia Limited. Associated with MAS535]	2001	Mermaid Marine					1		
MC014	Mermaid Marine Mangrove Monitoring and Rehabilitation Annual Report 2005 [Prepared for Mermaid Marine Australia Limited. Associated with MAS535]	2005	Worley Astron			1				
MC015	Mermaid Marine Mangrove Monitoring and Rehabilitation Annual Report 2006 [Associated with MA	2006	Worley Astron							

[r			
	Mermaid Marine Dampier Marine Services Facility Triennial Environmental Report 2006 [Prepared								
MC016	for Mermaid Marine Australia Pty Ltd. Associated with MAS535]	2006	Worley Astron			1			
	Mangrove Condition and Rehabilitation Monitoring King Bay, Burrup Peninsula, Annual Report -								
MC017	July 2007 [Annual Environmental Compliance Report 2007. Prepared for Mermaid Marine Australia Ltd. Associated with MAS 535]	2007	Actrop		1				
IVICUT7	Mermaid Marine Mangrove Monitoring Program 2012 Mangrove Monitoring Program Report. Rev	2007	Astron		1				
	1. 12 July 2012 [Appendix D, Upgrade of Marine Services Facility, King Bay, Dampier Ministerial								
	Statement No. 535 2011-12 Annual Compliance and 2006-2012 Performance Review July 2012.								
MC019	Mermaid Marine Australia (2012); Associated to MAS535]	2012	SKM	1					
	Mangrove Condition and Rehabilitation Monitoring Report [Appendix H, Annual Environmental								
MC020	Compliance Report 2009 - 2010. Prepared for Mermaid Marine Limited. Associated with Mas 535]	2010	AECOM			1			
			LeProvost, Semeniuk						
MC021	Marine biological monitoring programme, Burrup Peninsula, Western Australia, phase 2	1981	and Chalmer			1	1		
	Mangrove monitoring programmes. A. Spoil area no. 4; B. King Bay causeway : report to		LeProvost, Semeniuk						
MC022	Woodside Offshore Petroleum	1981	and Chalmer						
	Selection of Mangrove Stands for Conservation in the Pilbara Region of Western Australia - a								
	Discussion. 30th June 1997 (updated 28th July 1997) [Report to Department Resources and		V and C Semeniuk						
MC023	Development]	1997	Research Group						
			Semeniuk, Wilson						
MC024	Mangroves of Western Australia	1978	and Kenneally						
MC025	The Mangroves of the Dampier Archipelago Western Australia	1987	Semeniuk and Wurm					1	
			Dampier Salt						
MC026	Salt field expansion : consultative environmental review	1990	(Operations) Pty Ltd						
	The Burrup Peninsula and Dampier Archipelago, Western Australia:marine an introduction to the								
	history of its discovery and study, habitats and their flora and fauna [In: A Report on the Results of								
MC027	the Western Australian Museum/Woodside Energy Ltd. Partner	2004	Diana S. Jones						
MC028	Anketell Point Port Marine Benthic Habitat Assessment	2010	AECOM						
10000		0000	Osbourne,S						
MC029	Dampier Archipelago/Cape Perston regional perspectives	2000	Bancroft.K						
	nitrogen fixation in nonhetercystous cyanobaterical mats from the dampier archipelago In: Aust J								
MC030	Mar Freshwater Res, vol: 40, pg: 147-153	1989	Paling,E.I					<u> </u>	
MC031	API West Pilbara Iron Ore Project - Stage 1 Pope's Nose Creek Mangrove Assessment	2011	API		1				
	Guidance for the Assessment of Environmental Factors Western Australia (in accordance with the							1	
	Environmental Protection Act 1986) No. 1 April 2001 Guidance Statement for protection of tropical								
MC032	arid zone mangroves along the Pilbara coastline	2001	EPA						

					r			1
	Conse Dreaters land One Dreisert							
MC033	Cape Preston Iron Ore Project Project Environmental Management Plan	2009	Mineralogy					
IVIC033		2009	wineralogy					
			LeProvost Semeniuk					
MC034	Environmental assessment of proposed marine dredge spoil grounds in the dampier archipelago	1985	& Chalmers					
10004		1905	d Onaimers					
MC035	Browsing of mangroves by green turtles in western australia	No date	Pendoly, K.					
1110000								
			Carr, B.; Livesey, N.					
MC036	Pilbara mangrove study	1996	and Paling, E.					
	Investigative sampling at King Bay. Unpublished report ref 916-RS-02 to Mermaid Marine by							
MC037	Astron Engineering, June 1998	1998	Astron Engineering					
	Dampier Marine Services Facility Vol.1: Environmental impact identification and management.		Astron					
MC038	Unpublished report ref 918-RV-01 to Mermaid Marine Sept 1998	1998	Environmental					
	Dampier Marine Services Facility: Environmental Investigations at King Bay. Unpublished report		Astron			1		
MC039	ref 930-RA-01 for Mermaid Marine May 1999	1999	Environmental					
	Reports associated with monitoring programs 1, 2, 5, 6, 7 and 8 in the Dampier Operations Marine							
MC040	Management Program	Annual report?	?					
	Hamersley Iron Maintenance Dredging, Dampier Shipping Channel, Environmental Monitoring		LeProvost					
	Programme, Final report - November 1990.", Unpublished Report No. R 322, November 1990 to	1000	Environmental					
MC041	Hamersley Iron Pty Ltd, Perth WA.	1990	Consultants					
MC042	Monitoring program and compliance reporting associated with Ministerial 116 for Dampier Solar Salt Field Enhancement							
1010042								
	Monitoring and reports associated with Ministerial Approval Statement 823 for Mineralogy Pty Ltd -							
MC043	Balmoral South Iron Ore Project, Cape Preston, Shire of Roebourne	2009						
10043		2003						
	Monitoring and reporting associated with Ministerial Approval Statement 644 for Hamersley Iron							
MC044	Pty Ltd - Hamersley Iron Dredging Program for the Dampier Port Upgrade	2003						
						1		
	Monitoring and reporting associated with Ministerial Approval Statement 731 for Hamersley Iron							
MC045	Pty Ltd - Hamersley Iron Dredging Program for the Dampier Port Upgrade	2006						
	Monitoring and reporting associated with Ministerial Approval Statement 638 for Hamersley Iron					1		
MC046		2003						
	Management plans, monitoring and reporting associated with Ministerial Approval Statement 535					1		
MC047	for Mermaid Marine Australia Pty Ltd - Upgrade of Marine Sservices, King Bay, Dampier	2000						
	Environmental Management Programme, monitoring and compliance reporting associated with					1		
MC048	Ministerial Approval Statement 410 for Australian Unitied Steel Industry Pty Ltd	1996						
			V and C Semeniuk			1		
MC049	Study of the impacts of Pilbara coastal developments on arid zone mangroves	1994	Research Group					

1	1		I	T		1		
MC050	Anketell Point and Dixon Island Proposed Port Development Area Level 2 Flora and Vegetation Assessment. Supporting document 12.1, Appendix 1 Anketell Point Port Development Proposal Public Environmental Review/draft Public Environment Report	2010	AECOM		1			
100000		2010						
MC051	Future monitoring associated with API West Pilbara Iron Ore Project - Stage 1 Coastal Habitat Management Plan. Appendix 3 Anketell Point Port Development Proposal Public Environmental Review/draft Public Environment Report	2010	AECOM	1				
MC052	West Pilbara Iron Ore Project Anketell Point Port Development Proposal Public Environmental Review/draft Public Environment Report. Associated with Ministerial Approval Statement 881	2010	API					
MC053	Functional morphology and mode of life of Isanda coronata (Gastropoda: Trochidae) in an Australian macrotidal sandflat [In: The Marine Flora and Fauna of Dampier, Western Australia]	2003	Hickman CS					
MC054	Woodside Offshore Petroleum ChEMMS monitoring program. Data and reports.	1983-?	Woodside Offshore Petroleum					
MC055	Chemical and Ecological Monitoring of Mermaid Sound June 1991 Survey First Annual Report	1991	LeProvost Environmental Consultants					
MC056	Review of Coral Surveillance Monitoring for the ChEMMS Programme. Report prepared for Woodside.	2003	URS Australia					
MC057	Chemical and Ecological Monitoring of Mermaid Sound Annual Report 2004. Report Prepared for Woodside Energy Limited.	2004	URS Australia		1	1		
MC058	Chemical and Ecological Monitoring of Mermaid Sound Annual Report 2004. Report Prepared for Woodside.	2005	URS Australia					
MC059	Marine Monitoring of Dredging Operations in Mermaid Sound, WA - 1996. Internal report prepared for Woodside Offshore Petroleum	1996	ECOS Consulting					
MC060	Water Corporation Dampier Marine Environmental Survey	2001	IRC Environment					
MC061	Dampier Inner Harbour Marine Habitats Survey." Unpublished Report to Hamersley Iron by Environmental Contracting Services, Perth WA.	1995	ECS					
MC062	Dampier Marine Environmental Study - Review & Survey Report.", Unpublished report by IRC Environment for Hamersley Iron Pty Limited, Perth, WA.	2000	IRC Environment					

	Community structure and zoogeographic affinities of the coast fishes of dampier region of north						
MC063	west WA [In: Australian Journal of Marine and Freshwater Research, 1985, 36, 247-266]	1985	Blaber, S.J				
l							
		1981-?(at least	Woodside Offshore				
MC064	Aerial Photographs used to analyse discrete mangrove communities in certain areas	1991)	Petroleum	1			
	Investigations into the effect of condensate on the sediments and mangroves of Withnell Bay.						
	Document No. ENV0150, November 1990. [Technical Appendix 3 in: North West Shelf Gas						
MC065	Development (Woodside) Agreement : interim report on environmental investigations and monitoring 1992; however it isn't with the report]	1990	Woodside Offshore Petroleum	2	2	2	
100000		1000				:	
	Change analysis of the mangrove populations proximal to the bitterns release channel, Nickol						
	Bay, Western Australia, from an analysis of remotely sensed data[Appendix E Of Dampier Salit		Caccetta, M. and				
MC066	Limited - URS annual Environmental Report - Associated with MAS638]	2003	Tapley, I. (CSIRO)		1		
MC067	AECOM report on Environmental management of eastern lease sites operations [Associated with MAS116]	2005	Maunsell/ AECOM		1		
1110007		2000					
1							
MC068	AECOM Dampier Port and Port Hedland Aerial imaging of Mangroves [Associated with MAS116]	2007	AECOM		1		
MC069	AECOM Groundtruthing Mangrove impact assessment Dampier and Port Hedland [Assosciated with MAS116]	2007	AECOM				
IVICU09	WILL MAST 18	2007	AECOM				
1							
1	Disturbance to Mangroves in Tropical-Arid Western Australia: Hypersalinity and Restricted Tidal						
MC070	Exchange as Factors Leading to Mortality	1987	Gordon, D.M.	1			
					Ī	1	
1							
M0071	Balmoral South Iron Ore Project, Cape Preston, WA - Report and recommendations of the	0000					
MC071	Environmental Protection Authority Maitland heavy industrial estate. Karratha Landcorn / Department of Resources Development :	2009	EPA				
	Maitland heavy industrial estate, Karratha Landcorp / Department of Resources Development : advice to the Minister for the Environment from the Environmental Protection Authority under						1
MC072	Section 16(e) of the Environmental Protection Act 1986	1997	EPA				
	Developing a broadscale habitat map for the Montebello/Barrow islands and the Dampier		Bancroft KP,				
MC073	Archipelago/Cape Preston regions : Marine Reserve Implementation, Pilbara : a collaborative project between CALM Marine Conservation Branch and the Pilbara Regional Office	2000	Sheridan MW and Davidson JA (CALM)				
		2000	Daviusuli JA (CALIVI)				+
	Introduction to the marine environment of Dampier, Western Australia [In: The Marine Flora and		Fred E. Wells and				
MC074	Fauna of Dampier, Western Australia]	2003	Diana I. Walker				

?	?		
1	1		
		1	
	1	1	

MC075	Assets of the marine and coastal environment of the Dampier Archipelago, Western Australia : a register, July 2005	2005	M-Science				
MC076	Review of research and data relevant to the marine and terrestrial environment of Dampier		Jackson, K. J. , Paling, E. I., Stoddart, J. A.				
MC077	Indicative Management Plan for the Proposed Dampier Archipelago Marine Park and Cape Preston Marine Management Area.	2005	DoCLM				

* Historical time-series dataset of mangrove community extent to be developed using remote sensing techniques with archived aerial photography - see main body of mangrove community text in Appendix B1

Appendix 2 Key Performance Indicator datasets

							Asset Indicato	rs of Ir	nterest					
ID	Study/Dataset Title	Publication Year	Author	Turbidity / TSS	Hydrocarbons	Light Attenuation	Sedimentation	Litter	TBT / Metals	Sea Water Temp	Nitrogen	Phosphates	Chl a	Mean Wave Height
WQ162	Nickol Bay Coastal Station Data 1970 [see metadata link]	1970	CSIRO							?				
	Dampier archipelago historic site survey	1979	Macllroy J											
WQ091	The growth of marine fouling on a proposed platform offshore from dampier WA Phase 1 and 2	1979	Chalmer, P.N											
WQ064	Marine Systems of the Dampier Archipelago	1981	Chittleborough ,R.G											
	Monitoring of pipe trench spoil disposal, Contract 269C, prepared for Woodside Offshore Petroleum Pty Ltd, Interim Report for Fieldwork Conducted in October, 1982	1982	TD Meagher and Associates			1	1		1	1	1	1	1	
	Environmental monitoring programme conducted in Mermaid Sound for Woodside Offshore Petroleum Pty Ltd : interim report	1982	TD Meagher and Associates			1	1		1					
WQ084	Some effects of waves and tidal currents on the coast and continental shelf near dampier	1982	Chappell, J.											
WQ067	Bitterns discharge program; annual monitoring report	1983	Dampier Salt WAIT: The Petroleum Geochemistry											
WQ173	Polycyclic aromatic hydrocarbons in rock oysters from Mermaid Sound, Western Australia	1983	Group Meagher TD							1			<u> </u>	1
	Environmental Monitoring of Pipeline Installation in Mermaid Sound. Report prepared by Meagher and Associates for Woodside.	1984	and Associates			?	?		1	1				
WQ171	Heavy metal concentrations in the Oysters Saccostrea cuccullata and Saccostrea sp. from the Dampier Archipelago, Western Australia [Australian Journal of Marine and Freshwater Research, 1985, 36, 169-75]	1984	Talbot, V.						1	1				
	Community structure and zoogeographic affinities of the coastal fishes of the Dampier region of North-Western Australia [In: Australian journal of marine and freshwater research Vol. 36 (1985)]		Blaber SJM et al	1					1	1				
WQ045	Technical report on suspended matter in Mermaid Sound, Dampier Archipelago		Forde MJ (DCE)	1		1	1							
	enviromental assessment of the proposed mairne dredge spoil grounds		LeProvost											?
	Mineralogical variation within the marine sediment of the dampier region: a dynamic approach	1985	Talbolt V LeProvost,										<u> </u>	
WQ096	Chemical and ecological monitoring of Mermaid Sound : second annual report	1986	Semeniuk and Chalmer											
WQ098	Woodside Offshore Petroleum Pty Ltd . Spoil dumping permit. Intensive water quality survey of dredge spoil : preliminary report		LeProvost, Semeniuk and Chalmer						1	1	1	1	1	
	The ecological significance of blue-green algae in the Dampier Archipelago, In: Technical Series 2, Department of Conservation and Land Management	1986	Paling El							1				
WQ097	LNG shipping channel; dredging project : water quality surveys January 1987		LeProvost, Semeniuk and Chalmer											
	Woodside Offshore Petroleum Pty LTD LNG Shipping Channel Spoil Dumping Permit Water Quality Surveys to June 1987. Report prepared for Woodside	1987	LeProvost, Semenuik and Chalmer							1				1
WQ085	Port Walcott Oil Spill Enviromental Investigation; Report for Robe River Iron associates	1988	Bowman Bishaw Gorham							1				

						-				
	Nitrogen fixation in nonhetercystous cyanobaterical mats from the Dampier Archipelago									
WQ047	[Journal: Marine and Freshwater Research]	1989	Paling El				1	1		
			LeProvost,							
	LNG Shipping Channel - Spoil Dumping Permit Mermaid Sound Western Australia		Semenuik and							
WQ128	Environmental Monitoring Programme to December 1989. Report prepared for Woodside.	1989	Chalmer							
			Dampier Salt							
			(Operations)							
WQ099	Salt field expansion : consultative environmental review	1990	Pty Ltd							
	Hamersley Iron Maintenance Dredging, Dampier Shipping Channel, Environmental	1000	LeProvost							
	Monitoring Programme, Final report - November 1990.", Unpublished Report No. R 322,		Environmental							
	November 1990 to Hamersley Iron Pty Ltd, Perth WA.	1000	Consultants					1		
WQIZI		1990						1		<u> </u>
			LeProvost,							
	Maintenance Dredging 1989 Mermaid Sound Western Australia - State Environmental		Semenuik and							
WQ129	Monitoring Programme. Report no R292, prepared for Woodside Offshore Petroleum Pty Ltd	1990	Chalmer							
			LeProvost							
			Dames &							
WQ087	Chemical and Ecological Monitoring of Mermaid Sound Triennial Report 1988-1991	1991	Moore					1		
			LeProvost							
			Dames &							
WQ088	Chemical and Ecological Monitoring of Mermaid Sound Triennial Report 1991-1993	1993	Moore					1		
	A review of ballast water introductions into australia and the implications for the port of			1	1					
WQ092		1993	Oliver, G.					1	1	1
WQ075	Sediment contaiminants stud, dampier habour	1995	LeProvost			_		1		
	Enviromental report on the impact of disposal of ballast water by ships loading lpg and									
	condensate	1995	Oliver, G.							1
			LeProvost							
	1994 LPG Jetty and Ship-Turning Basin Dredging Programme Marine Monitoring		Dames and							
	Programme. Report prepared for Woodside.	1005	Moore						1	
				+		-			1	+ +
WQ009	AUSI Iron project; Wickham	1996	AUSI							
			LeProvost							
			Dames &							
WQ066	Chemical and ecological monitoring of mermaid sound	1996	Moore				1	1		
			Ecos							
WQ086	Marine Monitoring of Dredging operations in mermaid sounds	1996	Consulting					1		
			LeProvost		1					
			Dames &							
WO080	Chemical and Ecological Monitoring of Mermaid Sound Report 1996	1006	Moore							
11 003		1990		1	1					+ $+$ $-$
MOCC	Marine menitories of decision encosting is a second barrier (1999)	1000	Ecos							
	Marine monitoring of dredging operations in mermaid sound (Prepared for woodside)	1996	Consulting	 	1					+ $+$ $$
	Environmental Management Programme, monitoring and compliance reporting associated									
WQ101	with Ministerial Approval Statement 410 for Australian Unitied Steel Industry Pty Ltd	1996								
WQ068	Bitterns discharge program; annual monitoring report	1997	Dampier Salt				T		T	
	Dampier port upgrade - seidment contaminats study		LeProvost	1	1			1	1	1 1
				1	1				1	
WQ077	dampier shipping channel maintenance dredging	1998	LeProvost							
			Astron				T		T	
WQ140	Investigative Sampling at King Bay	1998	Engineering							
	a review of dampier coastlines; its resources, uses, and management prepared for hamersly			1						
WQ072		1000	Mattiske EM							
VVQU/2		1999								+ $+$ $-$
1			Reitsema TJ							
	Imposex in Morula granulata as bioindicator of tributyltin (TBT) contamination in the Dampier		and Spickett							
WQ115	Archipelago, Western Australia [electronic resource]	1999	JI							

			1		 		<u>т т</u>		
W0011	Dempier Archinglage/Cape Persten regional perspectives	2000	Osbourne S & Bancroft K						
VQUIT	Dampier Archipelago/Cape Perston regional perspectives	2000	Dalicion		 				
	Management plans, monitoring and reporting associated with Ministerial Approval Statement								
	535 for Mermaid Marine Australia Pty Ltd - Upgrade of Marine Sservices, King Bay, Dampier	2000							
-	Dampier Marine Environmental Study - Review & Survey Report.", Unpublished report by		IRC						
	IRC Environment for Hamersley Iron Pty Limited, Perth, WA.	2000	Environment						
	Recommendations of the Environmental Proection Authority, Bulletin 1014. Associated with								
	MAS 567]	2001	EPA	1	 				
	Preliminary Seawater Monitoring, Appendix G, Burrup Peninsula Desalinated Water and Seawater Supplies Project, Environmental Protection Statement, Environmental Impact		Astron						
	Identification and Management	2001	Environmental	1					
		2001	IRC						
WQ141	Water Corporation Dampier Marine Environmental Survey	2001	Environment						
	Upgrade of multi-user seawater supply and introduction of wastewater to ocean outfall,								
	Burrup Peninsula, Change to Environmenatl Conditions. [Report and Recommendations of								
	the Environmental Protection Authority, Bulletin 1044. Associated with MAS 594]		EPA	1				 	
	Dampier public warf	2002			 		+		
	Dampier marine ecosystem intergiry survey prepared for hamersley iron	2002		+	 		+	_	+ $+$ $-$
WQ074	Dampier Wharf channel sediment quality survey	2002	IRC		 		+	 	+ $+$ $-$
	Analysis of nitrogen contributors to kign bay and mermaid sound and review of potential								
WQ080			URS		 				
	Ammonia urea plant burrup peninsula report and recommendations of the epa	2002			 				
	Substantial asexual recruitment of mushroom corals contributes little to population genetics of adults in conditions of chronic sedimentation [Marine Ecology Progress Series, Vol 235:		Gilmour, James P						
WQ177		2002	(UWA)			1			
	Environmental Quality Criteria - Dampier Operations." Unpublished report by IRC		(0)						
	Environment for Hamersley Iron Pty Limited. Perth, WA	2002	IRC						
	A review of the oceanography of the Dampier Archipelago, Western Australia, [In: Wells FE,								
	Walker DI and Jone DS (Eds) Proceedings of the Twelfth Interational Marine Biological								
	Workshop: The Marine Flora and Fauna of Dampier, Western Australia. Held in Dampier from 24 July to 11 August 2000. Volume 1]	2003	Pearce A et al		1				
	Dredging program for the dampier port upgrage, report and recommendations of the EPA	2000							
	[MAS 638]	2003	EPA						
	Monitoring and reporting associated with Ministerial Approval Statement 644 for Hamersley								
	Iron Pty Ltd - Hamersley Iron Dredging Program for the Dampier Port Upgrade	2003							
	Monitoring and reporting associated with Ministerial Approval Statement 638 for Hamersley								
	Iron Pty Ltd - Hamersley Iron Dampier Port Upgrade to 95 MTPA Capacity	2003			 				
	Surveys, monitoring and reporting associated with Ministerial Approval Statement 635 for								
	Mineralogy Pty Ltd - Iron Ore Mine, Downstream Processing (Direct Produced and Hot- Briqutted Iron) and Port Construction, Cape Preston, Pilbara	2003							
	Stockpiling Environmental Management Plan [For Dampier Cargo Wharf South Project.	2003		 	 		╉		
	Assocaited with MAS589]	2003	BGC	1					
	TSEP Environmental Monitoring Water Quality At Hamersley shoals during		IRC						
	dredging/dumping operations [Associated with MAS482]	2003	Environment	1	1				
	Water quality, plume modelling and tracking before and during dredging in Mermaid Sound,								
	Dampier, Western Australia [In: Eds Stoddart and Stoddart, Corals of the Dampier Harbour: Their Survival and Reproduction during the Dredging Programs of 2004]	2004	Stoddart J and Anstee S						
							+		+ $+$ $-$
	Dampier harbour port upgrade- extended dredging program; sediment quality assessment		Mscience	+	 		+		+ $+$ $-$
	Dampier Salt limited annual enviromental report	2004	URS	+	 		+		+ $+$ $-$
	Dampier Harbour Seawater Monitoring Studies. HI0203R1, Unpublished Report to Hamersley Iron Pty Limited by Mscience Pty Ltd, Perth, WA.	2004	M-Science						
1104113		2004		I			1 1		

					1			-	-	1	r	1	
WQ152	Trunkline System Expansion Project- Pipeline coral and water quality monitoring - Final Report [Assocaited with MAS482]	2004	IRC Environment				1	1					
WQ160	King Bay Water Quality Monitoring Program [Appendix 10 to the BFPL Annual Environmental Report -Associated with MAS567-594]	2004	SKM										
WQ163	Water Quality Monitoring Data [Appendix E, Dampier Port Upgrade to 95 Mtpa Capacity, Monthly Marine Monitoring Report, July 2004, Final (SKM report - DPU-REF-125 Rev B). Associated with MAS 638]	2004	SKM	1									
WQ164	Water Quality Monitoring Data [Appendix F, Dampier Port Upgrade to 95 Mtpa Capacity, Monthly Marine Monitoring Report, September 2004, Final (SKM report - DPU-REF-125 Rev B). Associated with MAS 638]	2004	SKM	1									
WQ106	Monitoring and reporting associated with Ministerial Approval Statement 702 for Hamersley Iron Pty Ltd - Hamersley Iron Dampier Port Upgrade to a Throughput Capacity of 120 million Tonnes Per Annum	2005											
WQ151	Environmental Management of Eastern Lease Sites Operations [Associated with MAS116]	2005	Maunsell / AECOM										
WQ156	Dampier Marine Service facility: Marine Sediments and Water Monitoring Results [Associated with MAS535]	2005	Worley Astron										
WQ157	Mermaid Marine March 2005 Marine Sediment Sampling Report [Associated to MAS535]	2005	Worley Astron										
WQ158	Mermaid Marine - Dampier Marine Service Facility - Proposed Amendments to Water and Sediment Quality Monitoring Programs [Associated to MAS535]	2005	Worley Astron										
WQ167	Indicative Management Plan for the Proposed Dampier Archipelago Marine Park and Cape Preston Marine Management Area.	2005	DoCLM										
WQ012	Background quality for coastal marine waters of the North West Shelf, Western Australia [NWSJEMS Technical Report 18]	2006	Wenziker K, McAlpine K, Apte S, and Masini R			1							
WQ019	Dampier Port Dredging. Dredging and Dredge Spoil Disposal Management Plan [Revision 9, 7 December 2006. Report to Hamersly Iron. Associated to MAS731]	2006	SKM	1									
WQ036	Technical Report 6 North West Shelf Joint Environmental Management Study, Modelling circulation and connectivity on Australia's north west shelf.	2006	Condie S, Andrewartha J, Mansbridge J & Waring J										
WQ082	Background quality for coastal marine waters of the north west shelf, western australia		Wenziker K.K										
	Monitoring and reporting associated with Ministerial Approval Statement 731 for Hamersley Iron Pty Ltd - Hamersley Iron Dredging Program for the Dampier Port Upgrade	2006											
WQ155	Dampier Marine Service Facility: Marine Sediment and Water Monitoring Results May 2006 [Associated with MAS535]	2006	Worley Astron	1		1							
WQ181	Pluto LNG Development Marine Baseline Studies: Initial Sediment Characteristics [Mscience report MSA61R3. Associated with MAS757]	2006	Mscience	1		?							
WQ185	Cape Lambert Upgrade Sampling and Analysis Plan Implementation Report Rev 1 20 January 2006. Prepared for the Robe River Iron Associates.	2006	SKM	1									
WQ033	Dredging Program for the Cape Lambert Port Upgrade - 85 Mtpa, Monthly Marine Water Quality Report - August, Rev 1, 28 September 2007 [Series of monthly reports associated with condition 8-3 MAS743]	2007	SKM	1			1	1					
WQ035	Dredging program for the Cape Lambert Port Upgrade - 85 mtpa Dredging and spoil disposal management plan:- environmental management plan [MAS743]	2007	SKM	1									
WO055	Dampier Port Upgrade Phase B Dredging Program 2006/07. Monthly Marine Monitoring Reports 1-12(?) [Associated with MAS731. This record also includes 'Baseline Water Quality Monitoring Report. Dampier Port Upgrade Dredging Program 2006/7. Rev 02. 8 January 2007' (SKM, 2007); 'Dampier Port Upgrade Phase B Dredging Program 2006/07. Final Marine Monitoring Report. 27 March 2008 - Rev 5' (SKM, 2008); 'Dampier Port Upgrade Phase B Dredging Program 2006/07. Final Report Adressing Ministerial Statement 731, Condition 8-1. Rev 2. 16 July 2008' (SKM, 2008)]	2007	SKM				1						

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	Report MSA61R12 to Woodside Burrup Pty Ltd. Appendix A, Pluto LNG Development										
	Addendum to Public Environmental Report/Public Environmental Review Supplement and										
	Response to Submissions, SKM, Rev 02, 1 June 2007. Appendix 6 (Summary of										
	Submissions and Proponent's Response to Submissions), Pluto LNG Development, Burrup										
	Peninsula, Report and Recommendations of the Environmental Protection Authority, Bulletin										
	1259, EPA, July 2007. Associated with MAS 757]	2007	MScience	1	1	1					
WQ154	AECOM Sediment and Water Quality monitoring programs design [Associated with MAS535]	2007	AECOM				1				1
	Pluto LNG Development, Addendum to public environment report / public environmental										
	review supplement and response to public submissions . [Appendix 6 to Pluto LNG										
	Development, Burrup Peninsula, Woodside Energy Ltd, Report and recommendations of the										
	Environmental Protection Authority]	2007	SKM								
	Pluto LNG Development Remote Sensing Water Quality Monitoring Plan		SKM								
		2007	SIXIVI				-				
	Pluto LNG Development Marine Baseline Studies: Final Report [Draft Mscience report	0007									
	MSA61R14. Associated with MAS 757]		Mscience		1	1					
WQ187	Dampier Port Environmental Monitoring GIS May 2007 (Report to Dampier Port Authority)	2007	M-Science								
	Pluto LNG Development Coral Health Monitoring: Survey 12 - April - May 2008 [Mscience										
	report MSA93R33 to Woodside Burrup Pty Ltd. Report to Dredge Management Group										
	(DRIMS-#4198447-v1-Attachment_1). Associated with MAS 757]	2008	M- Science								
	Dredging and Dredge Spoil Assessment: Including Benthic Primary Producer Habitat		l								
	Assessment [Associated to MAS840]	2008	SKM								
	Dredging Program for the Cape Lambert port upgrade - 85 mtpa Final report on Relationship	2000									
	Between Total Suspended Solids/Turbidity and Light Attenuation Coefficient in Dredging and										
	Spoil Disposal-Induced Turbidity Plumes. Rev 1,15 February 2008, Turbididty and Light	0000	OKM		4						
	[Associated to MAS 420]	2008	SKM	<u> </u>	1						
	Dredging Program for the Cape Lambert Port Upgrade - 85 Mtpa - Marine Water Quality										
	Monitoring Final Report. Rev 4, 7 March 2008 [Associated with MAS 743]	2008	SKM		1	1					
	Mineralogy's Report on Marine water quality monitoring Environmental Management Plan.										
	Appendix 5 Oceanica's review of previous water quality sampling at Cape Preston Port										
WQ054	[Associated to MAS 535]	2008	Mineralogy								
			Leprovost								
	Sino Iron Project Marine Management Plan [Prepared for Mineralogy to fulfill obligations		Environmental								
WQ116	under MAS 635]	2008	Pty Ltd								
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	Pluto LNG Project - Monitoring Frequency and Logging Interval [M-Science Memo -										
WQ147	MAS757]	2008	M-Science	1							
	Pluto LNG Project- Water Qaulity Monitoring Exceedence		Ī								
	report(s)6,7,8,9,10,11,12,13,14,19,21,23,24,26,27,28,31. [M-Science Report MSA93E6-										
	MSA93E31 - Associated to MAS757]	2008	M-Science								
	Pluto LNG Development Water Quality Review. [Appendix 6 in Pluto LNG Project -										
	Ministerial Statement 757 Compliance Report 2008: Pluto Liquefied Natural Gas										
	Development (Site B Option) Burrup Peninsula, Shire of Roebourne]	2008	MScience		2						
	Environmental Offset Research Workshop: Worshop to identify Research Priorities for	2000			 						
	Improving Capacity to Manage Dredging Impacts on Tropical Coral Reef Communities.										
	Tradewinds Hotel, Fremantle 24-25 November 2008. Mscience report MSA93R53,	2000	MScience								
-	associated with MAS 757]	2008	MScience			-				+ $+$	
	Dredging Program for the Cape Lambert Port Upgrade - 85 Mtpa Marine Final Summary										
	Report Rev 3 28 April 2008	2008	SKM		1	1					
	Pluto LNG Development: Offsets Program Comparison of Predicted and Measured Impacts										
WQ184	[Mscience report MSA101R3. Associated with MAS757]	2008	Mscience			 1					
WQ188	Pluto LNG Development Coral Bleaching Assessment Feb 2008 [Associated with MAS757]	2008	MScience								
	Dampier Plume Monitoring and Characterisation: Particle Size Distribution Data Addendum		In-Situ Marine								
	[Addendum to In-situ Marine Optics' (IMO) report PLUTO-03]	2008	Optics								
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			Asia Pacific										
	Dampier Port Authority: Marine Environmental Modelling [Final Report, 17 December 2009,		Applied										
WOOAF	Appendix 13, Dampier Marine Services Facility Assessment on Proponent Information.	2000	Science					4					
WQUIS	Associated with MAS 868]	2009	Solutions					1					
	Dampier Marine Service Facility: Water Quality Impacts of the Pluto Program in an Area of Intesive Dredging [Mscience Report MSA142R2, Appendix 8, Dampier Marine Services												
	Facility Assessment on Proponent Information. Worley Parsons report to Dampier Port												
WO016	Authority 2011. Associated with MAS 868]	2009	MScience				1	1					
11 2010	Dampier Marine Services Facility Benthic Habitat Losses within Dampier Archipelago and	2003					- 1						
	Implications of this Project [WorleyParsons Report 301012-01121, Appendix 15, Dampier		Worley										
WQ017	Marine Services Facility Assessment on Proponent Information. Associated with MAS 868]	2009	Parsons										
	Cape Lambert Port B Development public environmental review and draft public												
WQ031	environmental report [Associated with MAS840, EPBC report number 2008/4032]	2009	SKM				1	1					
	Cape Lambert Port B Marine Water Quality Baseline Monitoring Report Revision 1, 28 July												
WQ032	2009 [Assosciated with MAS840]	2009	SKM				1	1					
	Dampier Port Wharf Construction: Water Quality Descriptors [M-Science Report MSA142R1,												
WQ042	associated with MAS868]	2009	M-Science										
	Cape Preston Iron Ore Project Project Environmental Management Plan		Mineraology										
		2009	initia a la		+				├				
	Monitoring and reports associated with Ministerial Approval Statement 822 for Mineralogy Pty Ltd - Balmoral South Iron Ore Project, Cape Preston, Shire of Roebourne	2009											
WQIII		2009											
WO131	Pluto LNG Development: Dredging and Spoil Management Plan/Dredge Impact Management Plan (Rev 9, July 2009, SKM)	2000	SKM										
		2009	SKW										
	Burrup Peninsula Industrial Water Supply Marine Outlet Operational Monitoring 2008 [Associated with MAS567 and 594]	2000	AECOM										
WQ159	· · · · · · · · · · · · · · · · · · ·	2009	AECON						<u>}</u>			+	
	Anketell Point Port Marine Benthic Habitat Assessment [Appendix 1, Supporting study 7.5,												
	Anketell Point Port Development Proposal Public Environmental Review/draft Public												
	Environmental Report. Report prepared for API Management Pty Ltd. Associated with MAS881]	2010	AECOM										
VVQ002	Anketell Point Port Development Proposal PER/draft PER	2010	API										
WQ003	Anketell Point Port Development Proposal PER/draft PER; Part 3 Marine Environemental Impact Assessment Section 9.	2010	API		1						1		
	Anketell Point Port Development Proposal PER/draft Part 3 Marine Environemental Impact												
WQ005	Assessment	2010	API								1	1	
WQ006	API West Pilbara Iron Ore Project - Stage 1 Desalination Discharge Management Plan	2010	API		1					1	1		
WQ007	API West Pilbara Iron Ore Project - Stage 1 Sediment Quality Management Plan	2010	API			1							
	API West Pilbara Iron Ore Project - Stage 1 Dredge Environmental Management Plan	2010			1								
	Baseline Water Quality and Sedimentation Assessment [Appendix 1, Supporting study 7.3,	2010											
	Anketell Point Port Development Proposal Public Environmental Review/draft Public												
	Environmental Report. Report prepared for API Management Pty Ltd. Associated with												
WQ041	MAS881]	2010	AECOM				1	1					
	Marine Water Quality Report Wet and Dry Seasons 2010 [Associated with MAS 535]		AECOM								1		
11 0002	Environmental Review/draft Public Environment Report. Associated with Ministerial Approval	2010							┟──┼			1	
WQ112	Statement 881	2010	ΑΡΙ										
	Future monitoring associated with API West Pilbara Iron Ore Project - Stage 1 Desalination	2010				<u> </u>			┟──┼			1	
	Discharge Management Plan. Appendix 3 Anketell Point Port Development Proposal Public												
WQ113	Environmental Review/draft Public Environment Report	2010	API										
	Future monitoring associated with API West Pilbara Iron Ore Project - Stage 1 Dredge											1	
	Environmental Management Plan. Appendix 3 Anketell Point Port Development Proposal												
WQ114	Public Environmental Review/draft Public Environment Report	2010	API										
	Report on 'Whole of Port Oil Spill Risk Assessment and Response Capability Review'		DPA?		1					1	1	1	1
	Pluto LNG Project: An Evaluation Of Dredging Impacts on Water Quality - November 2007	2010											
W0146	to Febuary 2010 [M-science Report Number MSA145R2 - Associated with MAS757]	2010	M-Science		1					1	1		
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W0106 Monter Annual Compliance Monitoring 2010														
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WQ123 Seawater Quality Monitoring Programme plan/reports/data/data summaries	ongoing	Water Corp?			1	1		
WQ124 Marine Sediment Monitoring Programme plan/reports/data/data summaries	ongoing	Water Corp?						
Monitoring program and compliance reporting associated with Ministerial 116 for Dampier WQ102 Solar Salt Field Enhancement								
Environmental Management Plan, monitoring program and compliance reports associated with Ministerial Approval Statement 594 for Water Corporation - Desalinated Water and WQ103 Seawater Supplies Project Burrup Peninsular, Shire of Roebourne						1		
Reconnaissance survey of background levels of halogenated materials in rock oysters from WQ172 Mermaid Sound, Western Australia		WAIT: The Petroleum Geochemistry Group						

Appendix 2 Key Performance Indicator datasets

ID	Study/Dataset	Location	Publication Year	Author	Related Asset
	Assessing the effectiveness of sanctuary zones in the proposed Dampier Archipelago Marine Park : data collected during				Macroalgal and Seagrass
XKPI001	the 2007 survey	Dampier Archipelago	2007	Armstrong SJ	communities
	Cape Lambert Port B Development, Benthic Primary Producer Habitat (BPPH) monitoring report (subtidal) (for Rio Tinto Iron				Macroalgal and Seagrass
XKPI002	Ore) [Cape Lambert Port B, Pilbara Iron Ore Pty Limited : report and recommendations of the Environmental Protection	Cape Lambert	2009	SKM	communities
	A general description of the subtidal habitats of the Dampier Archipelago, Western Australia [In: A Report on the Results of	•			Macroalgal and Seagrass
XKPI003	the Western Australian Museum/Woodside Energy Ltd. Partnership to explore the Marine Biodiversity of the Dampier	Dampier Archipelago	2004	WAM)	communities
	Marine benthic flora of the Dampier Archipelago, Western Australia [In: A Report on the Results of the Western Australian			/	Macroalgal and Seagrass
XKPI004	Museum/Woodside Energy Ltd. Partnership to explore the Marine Biodiversity of the Dampier Archipelago Western Australia	Dampier Archipelago	2004	Huisman JM (WAM)	communities
		Inner Archipelago (including in			
		proposed marine park) and			
XKPI005	Background quality of the marine sediments of the Pilbara coast. Marine Technical Series Report MTR 1	DPA waters	2006	DEC	sediment quality
	Comparison of the Dampier Port Fringing Reef Benthic Community with Nearby Reef Areas [Report to the Dampier Port		2000		Macroalgal and Seagrass
XKPI006	Authority] [Macrogalgae and seagrass communities]	Cape Preston - Cape Lambert	2000	Worley Parsons	communities
	Cape Lambert Benthic Habitat Mapping: benthic marine habitats at Cape Lambert West, Bezout, Dixon and Delambre	Cape Lambert - Dixon Island,	2003	Wolley Faisons	Macroalgal and Seagrass
	Islands. Supporting Document 7.4, Appendix 1, Anketell Point Port Development Proposal Public Environmental	-	2000	M Saianaa	
XKPI007		plus Bezout and Delambre	2008	M-Science	communities
VICEIOOO	Anketell Point Port Benthic Primary Producers. Supporting document 7.6, Appendix 1 Anketell Point Port Development	Cape Lambert - Dixon Island,	0040	150014	Macroalgal and Seagrass
XKPI008	Proposal Public Environmental Review/draft Public Environment Report	plus Bezout and Delambre	2010	AECOM	communities
		Eastern onshore part of focus			
	Migratory Wader Assessment Report. Supporting document 13.2, Appendix 1 Anketell Point Port Development Proposal	area including Clearville, Dixon			- · · · ·
XKPI009	Public Environmental Review/draft Public Environment Report	Island, Bouger Channel and	2010	AECOM	Seabirds
	Field Report : A Description of Humpback Whale and other Mega fauna Distribution and Abundance in the Western Pilbara				Marine mammals
XKPI010	Using Aerial Surveys - 2009/2010. Supporting document 9.1, Appendix 1 Anketell Point Port Development Proposal Public	West Pilbra	2010	М	(Cetaceans)
	Cape Lambert Benthic Habitat Mapping: benthic marine habitats at Cape Lambert West, Bezout, Dixon and Delambre	Cape Lambert - Dixon Island,			Macroalgal and Seagrass
XKPI011	Islands. Supporting Document 7.4, Appendix 1, Anketell Point Port Development Proposal Public Environmental	plus Bezout and Delambre	2008	M-Science	communities
		Eastern onshore part of focus			
	Migratory Wader Assessment Report. Supporting document 13.5, Appendix 2 Anketell Point Port Development Proposal	area including Clearville, Dixon			
XKPI012	Public Environmental Review/Final Public Environment Report	Island, Bouger Channel and	2011	AECOM	Seabirds
	Field Report : A Description of Humpback Whale Behaviour Patterns in Nickol Bay Western Australia Using Vessel Based			Jenner C and Jenner	Marine mammals
XKPI013	Surveys. Supporting document 9.6, Appendix 2 Anketell Point Port Development Proposal Public Environmental	Nikol Bay	2011	Μ	(Cetaceans)
	API West Pilbara Iron Ore Project - Stage 1 Bouger Passage Reef Habitat Assessment. Supporting documment 7.8,				Macroalgal and Seagrass
XKPI014	Appendix 2 Anketell Point Port Development Proposal Public Environmental Review/Final Public Environment Report	Bouger Passage	2011		communities
					Marine mammals
XKPI015	Anketell Point Port Development Proposal PER/draft PER; aerial survey from study 9.1	Anketell Point	2010	AECOM	(Cetaceans)
	Anketell Point Port Development Proposal PER/draft PER; PART 3 MARINE ENVIRONMENTAL IMPACT ASSESSMENT				Marine mammals
XKPI016	SECTION 9 MARINE FAUNA	Anketell Point	2010	AECOM	(Cetaceans)
	Future monitoring associated with API West Pilbara Iron Ore Project - Stage 1 Marine Fauna Management Plan. Appendix 3				Marine mammals
XKPI017	Anketell Point Port Development Proposal Public Environmental Review/draft Public Environment Report	Damiper Archipelago	2010	ΔΡΙ	(Cetaceans)
	Future monitoring associated with API West Pilbara Iron Ore Project - Stage 1 Marine Fauna Management Plan. Appendix 3		2010		Marine mammals
XKPI018	Anketell Point Port Development Proposal Public Environmental Review/draft Public Environment Report	Anketell Point	2010		(Cetaceans)
	West Pilbara Iron Ore Project Stage 1		2010	IVI	Marine mammals
XKPI019	Anketell Point Port Development Proposal	Anketell Point	2010	AECOM	(Cetaceans)
	Cape Lambert Port B Development public environmental review and draft public enviromental report		2010		
	שמים במחושבות היות ש שבייבוסףווובות פעשוני בחיזוסווווובותמו דביוביא מווע עומת פעשוני בחיזוסווובותמו ובפטת				Marine mammale
		Conclombert	0000	CKM/DiaTinta	Marine mammals
XKPI020		Cape Lambert	2009	SKM/RioTinto	(Cetaceans)
	Demoior Archinologo/Cono Deroton regional normactives	Cono Drogoton	0000	Osbourne,S	Marine mammals
XKPI021	Dampier Archipelago/Cape Perston regional perspectives	Cape Preseton	2000	Bancroft.K	(Cetaceans)
	Otatus and distribution of duman addin unations of starting	North Mont OL 11		Dia alum a c. D	Marine mammals
XKPI022	Status and distribution of dugongd in western australia	North West Shelf	1981	Blackman,D.	(Cetaceans)
	Future monitoring associated with API West Pilbara Iron Ore Project - Stage 1 Marine Fauna Management Plan. Appendix 3				Marine mammals
XKPI023	Anketell Point Port Development Proposal Public Environmental Review/draft Public Environment Report	Anketell Point	2010		(Cetaceans)
XKPI024	marine sediment condition monitoring	Dampier Archipelago	2010	AECOM	sediment quality
	marine sediment quality investigation novermber 2009- december 2010	Dampier Archipelago	2009-2010		sediment quality
XKPI026	Damp Marine Service facility- MarineSediment monitoring.	Dampier Archipelago	2007	Memaid-marine	sediment quality

	Damp Marine Service facility- MarineSediment monitoring.	Dampier Archipelago		2010	AECOM	sediment quality
XKPI028	Damp Marine Service facility- MarineSediment monitoring.: AECOM_Meusell_MermaidMarine_SedimentQualityReport2007	Dampier Archipelago			AECOM	sediment quality
XKPI029	DPA annual Report 2004-2011	Dampier Archipelago	2004-2011		DPA	Iron/Mineral Export
						Marine mammals
XKPI030	Independent Fauna Observer Final Report for the Pluto LNG Dredging Project IFO Report 2007-2010	Dampier Archipelago		2010	Blue Planet Marine	(Cetaceans)
					TD Meager and	
XKPI031	Monitoring of pipe soil disposal	Dampier Archipelago		1982	Associates	sediment quality
	Environmental monitoring programme conducted in Mermaid Sound for Woodside Offshore Petroleum Pty Ltd : interim				TD Meager and	
	report	Dampier Archipelago		1982	Associates	sediment quality
					Bowman Bishaw	
XKPI033	Dampier port authority management plan	North West Shelf		1994	Gorham	
	Bampior port additiontly management plan			1001	Coman	Marine mammals
XKPI034	Group 4 humpback whale calving ground and population monitoring programme	North West Shelf		1995	Jenner, K.C.S	(Cetaceans)
				1000		Marine mammals
XKPI035	Humpback Highway	North West Shelf		1008	Jenner,M-N	(Cetaceans)
XIXI 1033	Humpback Highway			1330		(Cetaceans)
XKPI036	marine protected areas and dugong conservation along australia indian ocean coast	North West Shelf		1002	Preen, A.	Marine mammals (Dugongs)
	manne protested areas and dugong conservation along adstralla indian ocean coast		+	1990	1 100H, / \ .	manne mannais (Dugongs)
XKPI037	Dugongs in the northern waters of western australia	North West Shelf		1096	Price, R.I.T	Marine mammals (Dugongs)
XIXF 1037		North West Shell	-	1900	F 110 0 , IX.1.1	Marine mammals
XKPI038	A preliminary population estimate of the group 4 breeding stock of humpback whales of western australia	North West Shelf		1004	Jenner,K.C.S	(Cetaceans)
ARF1030	A preliminary population estimate of the group 4 breeding stock of numpback whates of western australia			1994	Jenner, N.C.S	Marine mammals
	Coographical and temporal mayoments of hymphosic wholes in wastern systemic	North Woot Shalf		2004	Jenner,K.C.S	
	Geographical and temporal movements of humpback whales in western australia Vertebrate fauna study of Burrup Peninsula for woodside petroleum	North West Shelf			-	(Cetaceans)
		North West Shelf			Tingay	Seabirds
XKPI041	Fauna assessment of service corridors on the burruo peninsula	North West Shelf	_	2002	Biostat	Seabirds
	🗖 standar states attende second to the teleform states of the second second states at the body second states to the body second states at the body			0000		Marine mammals
XKPI042	Evaluation of the effectiveness of reducing dolphin catches with pingers and exclusion grids in the pilbara trawl fishery	North West Shelf		2008	Stephenson, P.C	(Cetaceans)
						Marine mammals
	Evaluation of exclusion grids to reduce the cathc of dolphines, turtles, sharks, and rays in the pilbara trawl fishery	North West Shelf		2008	Stephenson, P.C	(Cetaceans)
	Aerial survey of th distribution and abundance of dugongs and sassociated macrovertebrate fauna- pilbra coast/offshore				550	
XKPI044	region	North West Shelf	No date		DEC	Marine mammals (Dugongs)
					550	
XKPI045	Status and distribution of dugons in western australia	North West Shelf	No date		DEC	Marine mammals (Dugongs)
XKPI046	The distribution and abundance of dugongs and other megavertebrates in western australia coastal waters	North West Shelf				
			No date		DEC	Marine mammals (Dugongs)
			No date			Marine mammals
XKPI047	Seismic surveys and humpbackwhales	North West Shelf	No date	1997	Anon	Marine mammals (Cetaceans)
		North West Shelf	No date		Anon	Marine mammals (Cetaceans) Marine mammals
	Seismic surveys and humpbackwhales Aerial Observations on the humpback whale (Megaptera nodosa) with notes on other species		No date			Marine mammals (Cetaceans) Marine mammals (Cetaceans)
XKPI048	Aerial Observations on the humpback whale (Megaptera nodosa) with notes on other species	North West Shelf North West Shelf	No date	1953	Anon Chittleborough, R.G	Marine mammals (Cetaceans) Marine mammals (Cetaceans) Marine mammals
XKPI048		North West Shelf	No date	1953	Anon	Marine mammals (Cetaceans) Marine mammals (Cetaceans) Marine mammals (Cetaceans)
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	North West Shelf Venture Additional Liquefied Natural Gas (LNG) Fascilities Public Environmental Review (WA) and Public			Woodside Energy	
	Environmental Report (Commonwealth)	Burrup Peninsula	1009	Limited	Seabirds
XKF 1037	The Burrup Peninsula and Dampier Archipelago, Western Australia:marine an introduction to the history of its discovery and		1990		Seabilus
XKPI058	study, habitats and their flora and fauna [In: A Report on the Results of the Western Australian Museum/Woodside Energy	Watering Cove	2004	Diana S. Jones	Rocky shore communities
	Notes on birds breeding in Dampier Archipelago, NW coast of Australia			Whitelock FL	Seabirds
	Marine benthic flora of the Dampier Archipelago, Western Australia [In: Proceedings of the twelfth International Marine		1918	Huisman JM and	Macroalgal and Seagrass
	Biological Workshop : the marine flora and fauna of Dampier, Western Australia : held in Dampier from 24 July to 11 August		2002	Borowitzka MA	communities
	Woodside ChEMMS monitoring program		1985-	DUIUWILZKA IMA	Rocky shore communities
	Environmental Management Plan, monitoring program and compliance reports associated with Ministerial Approval		1900-		Rocky shore communities
	Statement 594 for Water Corporation - Desalinated Water and Seawater Supplies Project Burrup Peninsular, Shire of				sediment quality
	Management plans, surveys, monitoring and compliance reports associated with Ministerial Approval Statement 868 for DPA				Macroalgal and Seagrass
XKPI063	- Dampier Marine Services Facility		2011		communities
	Environmental Management Programme, monitoring and compliance reporting associated with Ministerial Approval		2011		communities
	Statement 410 for Australian Unitied Steel Industry Pty Ltd	Cape Lambert	1996		sodimont quality
	Monitoring program and compliance reporting associated with Ministerial 116 for Dampier Solar Salt Field Enhancement	Nickol Bay/Creek/River	1990		sediment quality geomorphology
	Monitoring program and compliance reporting associated with Ministerial 116 for Dampier Solar Salt Field Enhancement	Nickol Bay/Creek/River	1990		Seabirds
	Monitoring and reporting associated with Ministerial Approval Statement 731 for Hamersley Iron Pty Ltd - Hamersley Iron	Nickol Bay/Cleek/River	1990		Macroalgal and Seagrass
	Dredging Program for the Dampier Port Upgrade	Mermaid Sound	2006		communities
	Marine Management program, monitoring and reporting associated with Ministerial Approval Statement 702 for Hamersley		2000		communities
	Iron Pty Ltd - Hamersley Iron Dampier Port Upgrade to a Throughput Capacity of 120 million Tonnes Per Annum	Mermaid Sound	2005		sediment quality
	Marine Management program, monitoring and reporting associated with Ministerial Approval Statement 702 for Hamersley		2000		Macroalgal and Seagrass
	Iron Pty Ltd - Hamersley Iron Dampier Port Upgrade to a Throughput Capacity of 120 million Tonnes Per Annum	Mermaid Sound	2005		communities
	Monitoring and reporting associated with Ministerial Approval Statement 644 for Hamersley Iron Pty Ltd - Hamersley Iron		2000		Macroalgal and Seagrass
	Dredging Program for the Dampier Port Upgrade	Mermaid Sound	2003		communities
	Monitoring and reporting associated with Ministerial Approval Statement 638 for Hamersley Iron Pty Ltd - Hamersley Iron		2003		Macroalgal and Seagrass
	Dampier Port Upgrade to 95 MTPA Capacity	Mermaid Sound	2003		communities
	Management plans, monitoring and reporting associated with Ministerial Approval Statement 535 for Mermaid Marine		2003		communities
	Australia Pty Ltd - Upgrade of Marine Sservices, King Bay, Dampier	King Boy	2000		sediment quality
	Surveys, monitoring and reporting associated with Ministerial Approval Statement 635 for Mineralogy Pty Ltd - Iron Ore Mine,	King Bay	2000		Macroalgal and Seagrass
	Downstream Processing (Direct Produced and Hot-Brigutted Iron) and Port Construction, Cape Preston, Pilbara	Cape Preston	2003		communities
	Surveys, monitoring and reporting associated with Ministerial Approval Statement 635 for Mineralogy Pty Ltd - Iron Ore Mine,	Cape Fleston	2003		communities
	Downstream Processing (Direct Produced and Hot-Briqutted Iron) and Port Construction, Cape Preston, Pilbara	Cape Preston	2003		sediment quality
XKF 1074	Downstream Frocessing (Direct Froduced and hot-Briquited from) and Fort Construction, Cape Freston, Flibara	Eastern onshore part of focus	2003		Sediment quality
	Future monitoring associated with API West Pilbara Iron Ore Project - Stage 1 Coastal Habitat Management Plan. Appendix	area including Clearville, Dixon			
	3 Anketell Point Port Development Proposal Public Environmental Review/draft Public Environment Report	Island, Bouger Channel and	2010	AECOM	acomorphology
	West Pilbara Iron Ore Project Anketell Point Port Development Proposal Public Environmental Review/draft Public	Island, bouger Charmer and	2010	AECON	geomorphology Marine mammals
	Environment Report. Associated with Ministerial Approval Statement 881	Eastern part of the focus area	2010		(Cetaceans)
	West Pilbara Iron Ore Project Anketell Point Port Development Proposal Public Environmental Review/draft Public	Lastern part of the locus area	2010		Macroalgal and Seagrass
	Environment Report. Associated with Ministerial Approval Statement 881	Eastern part of the focus area	2010		communities
	West Pilbara Iron Ore Project Anketell Point Port Development Proposal Public Environmental Review/draft Public	Lastern part of the locus area	2010		communities
	Environment Report. Associated with Ministerial Approval Statement 881	Eastern part of the focus area	2010		sediment quality
	Future monitoring associated with API West Pilbara Iron Ore Project - Stage 1 Marine Fauna Management Plan. Appendix 3	Lastern part of the locus area	2010		Marine mammals
	Anketell Point Port Development Proposal Public Environmental Review/draft Public Environment Report	Eastern part of the focus area	2010		(Cetaceans)
	Future monitoring associated with API West Pilbara Iron Ore Project - Stage 1 Marine Fauna Management Plan. Appendix 3	Eastern part of the focus area	2010		(Celacealis)
	Anketell Point Port Development Proposal Public Environmental Review/draft Public Environment Report	Eastern part of the focus area	2010		Marine mammals (Dugongs)
	Future monitoring associated with API West Pilbara Iron Ore Project - Stage 1 Sediment Quality Management Plan.	Eastern part of the locus area	2010		Marine marinais (Dugongs)
	Appendix 3 Anketell Point Port Development Proposal Public Environmental Review/draft Public Environment Report	Eastern part of the facus area	2010		sodimont quality
	Cape Lambert Port B Development, baseline intertidal report (for Rio Tinto Iron Ore) [Cape Lambert Port B, Pilbara Iron Ore	Eastern part of the focus area	2010		sediment quality
	Pty Limited : report and recommendations of the Environmental Protection Authority]		2000	SKM	Pocky shore communities
	r ty Limited . report and recommendations of the Environmental Protection Authority]		2008		Rocky shore communities
XKPI083	Repthic Habitat Report: Dampier Marine Service Facility (Report to the Dompier Port Authority)	Mermaid Sound	2000	Worley Parsons	Macroalgal and Seagrass communities
	Benthic Habitat Report: Dampier Marine Service Facility [Report to the Dampier Port Authority] Cape Lambert Port B Development, Cetacean management plan (for Rio Tinto) [Cape Lambert Port B, Pilbara Iron Ore Pty		2009	raisons	Marine mammals
	Limited : report and recommendations of the Environmental Protection Authority]		2000	SKM	
	Marine Sediment Monitoring Programme plan/reports/data/data summaries [In: Outline of Environmental Management		2009	SKM	(Cetaceans)
	Plans, Appendix J, Burrup Peninsula Desalinated Water and Seawater Supplies Project, Environmental Protection	King Bay/Mermaid Sound	2001 - present	Water Corporation?	sediment quality
71/1-1000	rians, Appendix J, buttup reninsula desalinateu water and seawater supplies Project, Environmental Protection	King Bay/Mermaid Sound	2001 - present	Trater Corporation?	sediment quality

		Mermaid Sound plus reference			
XKPI086	Woodside Offshore Petroleum ChEMMS monitoring program. Data and reports.	sites	1983-?		Rocky shore communities
	Burrup Peninsula Fauna Study. Unpublished report for Woodside Offshore Petroleum	Burrup Peninsula		B Dinara Pty Ltd	Seabirds
		·		Woodside Offshore	
XKPI088	Terrestrial Fauna Monitoring Programme 1997	Burrup Peninsula	1997	7 Petroleum	Seabirds
	Productivity of benthic turf algae in the Dampier Archipelago, Western Australia [In: Australian Coral Reef Society, 83rd			Borowitzka M and	Macroalgal and Seagrass
XKPI089	annual conference, Fremantle, Western Australia, 9- 11th October, 2007 : east meets west: science and management of		2007	7 Mercer J	communities
	Marine plants of the rocky shores of the Dampier Archipelago [In: Report on the marine fauna and flora of the Dampier			Slack-Smith SM	Macroalgal and Seagrass
XKP1090	Archipelago : unpublished reports submitted to Meagher and LeProvost]		1978	3 (WAM)	communities
				Huisman and	Macroalgal and Seagrass
XKPI091	Algae of the Dampier Archepelago and Montebello		2003	3 Borowitzka	communities
				LeProvost	intertidal rocky shore
				Environmental	communities; sediment
XKP1092	Chemical and Ecological Monitoring of Mermaid Sound June 1991Survey First Annual Report		1991	I Consultants	quality
	1994 LPG Jetty and Ship-Turning Basin Dredging Programme Marine Monitoring Programme. Report prepared for			LeProvost Dames and	
XKPI093	Woodside.		1995	5 Moore	sediment quality
	LNG Shipping Channel - Spoil Dumping Permit Mermaid Sound Western Australia Environmental Monitoring Programme to			LeProvost, Semenuik	
XKPI094	December 1989. Report prepared for Woodside.		1989	and Chalmer	sediment quality
	Maintenance Dredging 1989 Mermaid Sound Western Australia - State Environmental Monitoring Programme. Report no			LeProvost, Semenuik	
XKPI095	R292, prepared for Woodside Offshore Petroleum Pty Ltd		1990	and Chalmer	sediment quality
	Environmental Monitoring of Pipeline Installation in Mermaid Sound. Report prepared by Meagher and Associates for		1000	Meagher TD and	
XKPI096	Woodside.		1984	Associates	sediment quality
XKPI097	Pluto LNG Development: Baseline Studies for Corals and Sediments. Report prepared for Sinclair Knight Merz			6 M-Science	sediment quality
XKPI098	Review of Coral Surveillance Monitoring for the ChEMMS Programme. Report prepared for Woodside.			B URS Australia	Rocky shore communities
	Chemical and Ecological Monitoring of Mermaid Sound Annual Report 2004. Report Prepared for Woodside Energy Limited.			URS Australia	Rocky shore communities
	Chemical and Ecological Monitoring of Mermaid Sound Annual Report 2005. Report Prepared for Woodside.			5 URS Australia	Rocky shore communities
	Pluto LNG Development: Dredging and Spoil Management Plan/Dredge Impact Management Plan (Rev 8, 2008, SKM)			B SKM	sediment quality
	"A final report summarising the results, analyses and interpretation of the particle size distribution monitoring will be provided		2000	2	geomorphology
71(11102	Pluto LNG Project Baseline Marine Habitat Survey Report Prepared in Accordance with Requirements of Ministerial		:	:	Macroalgal and Seagrass
XKPI103	Condition 6-11 of the Pluto Ministerial Statement		2000	з ѕкм	communities
ARFIIUS			2000		Macroalgal and Seagrass
XKPI104	Reports associated with post dredging benthic habitat Surveys required under condition 850:M6.12-14		2010	2	communities
	Marine Monitoring of Dredging Operations in Mermaid Sound, WA - 1996. Internal report prepared for Woodside Offshore			6 ECOS Consulting	Rocky shore communities
XKPI106	Investigative Sampling at King Bay Water Corporation Dampier Marine Environmental Survey			Astron Engineering	sediment quality
XKPI107			200	I IRC Environment	sediment quality
XKPI108	Dampier Inner Harbour Marine Habitats Survey." Unpublished Report to Hamersley Iron by Environmental Contracting		4000		Macroalgal and Seagrass
AKP1106	Services, Perth WA. Dampier Marine Environmental Study - Review & Survey Report.", Unpublished report by IRC Environment for Hamersley		1995	5 ECS	communities
VKDI400			2004		Macroalgal and Seagrass
XKPI109	Iron Pty Limited, Perth, WA.		2001	I IRC	communities
	Henereley Iron Meintenenes Dredning, Demning Chennel, Environmental Menitoring Dregramme, Final report			LeProvost	Meanedral and Coorress
	Hamersley Iron Maintenance Dredging, Dampier Shipping Channel, Environmental Monitoring Programme, Final report -		1000	Environmental	Macroalgal and Seagrass
XKPI110	November 1990.", Unpublished Report No. R 322, November 1990 to Hamersley Iron Pty Ltd, Perth WA.		1990) Consultants	communities
	Departs approximated with manifesting programs 4, 0, 5, 0, 7 and 0 in the Demarks Operation. Market Market 10,		Annual annu 10		e e dire e et aux e litur
XKPI111	Reports associated with monitoring programs 1, 2, 5, 6, 7 and 8 in the Dampier Operations Marine Management Program		Annual report?	<i>!</i>	sediment quality
	Anketell Point Port Sediment Sampling and Analysis Implementation Report [Appendix 1, Supporting study10.1, Anketell	Anketell Point - offshore from			Codim out Ourslite
XKPI112		Delambre Island	2010) Oceanica	Sediment Quality
	API West Pilbara Iron Ore Project - Stage 1. Addendum to SAP Implementation Report [Appendix 1, Supporting study10.2,				
XKPI113	for API Management Pty Ltd. Associated with MAS881]	Delambre Island	2010) API	Sediment Quality
		Probably concentrates on inner		? May be more than	
		Mermaid Sound near active		one, likely to be	
		port areas, however reference		Environmental	
	Final Report' referred to in section 7.1.7 of the 'Dampier Port Dredging: Dredging and Dredge Spoil Disposal Management	sittes are likely to be in, or very		consultant, SKM or	
XKPI114	Plan' (SKM, 2006. For Hamersley Iron) [Associated with MAS 731]	close to proposed marine park	?	MScience?	Sediment quality

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	Dampier Marine Environmental Study - Review & Survey Report.", Unpublished report by IRC Environment for Hamersley				
XKPI143	Iron Pty Limited, Perth, WA.		2001	IRC	sediment quality
				LeProvost	
	Hamersley Iron Maintenance Dredging, Dampier Shipping Channel, Environmental Monitoring Programme, Final report -			Environmental	
XKPI144	November 1990.", Unpublished Report No. R 322, November 1990 to Hamersley Iron Pty Ltd, Perth WA.		1990	Consultants	sediment quality
	Maitland heavy industrial estate, Karratha Landcorp / Department of Resources Development : advice to the Minister for the				
XKPI145	Environment from the Environmental Protection Authority under Section 16(e) of the Environmental Protection Act 1986	Maitland	1997	EPA	Marine mammals (Dugongs)
XKPI146	Dampier archipelago nature reserves management plan 1990 - 2000	Dampier Archipelago	1990	DoCLM	Seabirds
	Introduction to the marine environment of Dampier, Western Australia [In: The Marine Flora and Fauna of Dampier, Western			Fred E. Wells and	Macroalgal and Seagrass
XKPI147	Australia]	Dampier Archipelago	2003	Diana I. Walker	communities
					Macroalgal and Seagrass
XKPI148	Assets of the marine and coastal environment of the Dampier Archipelago, Western Australia : a register, July 2005	Dampier Archipelago	2005	M-Science	communities
	Introduction to the marine environment of Dampier, Western Australia [In: The Marine Flora and Fauna of Dampier, Western			Fred E. Wells and	
XKPI149	Australia]	Dampier Archipelago	2003	Diana I. Walker	Marine mammals (Dugongs)
XKPI150	Assets of the marine and coastal environment of the Dampier Archipelago, Western Australia : a register, July 2005	Dampier Archipelago	2005	M-Science	Marine mammals (Dugongs)
					Macroalgal and Seagrass
XKPI151	Review of research and data relevant to the marine and terrestrial environment of Dampier	Dampier Archipelago	2006	Paling, E. I., Stoddart,	communities
					Macroalgal and Seagrass
XKPI152	A general description of the subtidal habitats of the Dampier Archipelago, Western Australia	Dampier Archipelago	2004	,	communities
				, ,	Marine mammals
XKPI153	Review of research and data relevant to the marine and terrestrial environment of Dampier	Dampier Archipelago	2006	Paling, E. I., Stoddart,	(Cetaceans)
					Macroalgal and Seagrass
					communities, cetaceans,
					dugongs, geomorphology,
	Indicative Management Plan for the Proposed Dampier Archipelago Marine Park and Cape Preston Marine Management				sediment quality, rocky shore
XKPI154	Area.	Dampier Archipelago	2005	DoCLM	communities, seabirds
	Pluto LNG Development, Addendum to public environment report / public environmental review supplement and response to				
	public submissions . [Appendix 6 to Pluto LNG Development, Burrup Peninsula, Woodside Energy Ltd, Report and				macroalgae and seagrass
XKPI155	recommendations of the Environmental Protection Authority]	Dampier Archipelago	2007	Sinclair Knight Merz	communities
	Cape Lambert Port B Development, Cetacean management plan (for Rio Tinto) [Cape Lambert Port B, Pilbara Iron Ore Pty				Marine mammals
XKPI156	Limited : report and recommendations of the Environmental Protection Authority associated with MAS840]		2011	SKM	(Cetaceans)

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Attachment 3

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1	Unnamed Is 407	5	Enderby Is.(Temp)	9	High Point	13	Legendre Is. General
2	NE Regnard Is.(Temp)	6	Goodwin Is.	10	Conzinc Is.	14	Legendre Is. Sanctuary
3	Eaglehawk Is.	7	Sailfish (Temp)	11	Gidley Is.	15	Delambre Is.
4	Dockrell Reef	8	Malus Is.	12	Hamersley Shoal (Temp)		

Locations (red points) of fish and coral monitoring sites in the proposed Dampier Archipelago Marine Park and Regnard Marine Management Area. The location of temperature loggers are marked with blue crosses. Also included is a table listing site names.