



MINISTER FOR THE ENVIRONMENT; SCIENCE

Statement No.

000762

ENVIRONMENTAL PROTECTION ACT 1986

STATEMENT THAT A REVISED PROPOSAL MAY BE IMPLEMENTED

HAMERSLEY IRON DAMPIER PORT UPGRADE  
TO A THROUGHPUT CAPACITY OF 120 MILLION TONNES PER ANNUM

- Proposal:** To expand its iron ore operations at Dampier Port, which includes Parker Point and East Intercourse Island facilities to a total of 120Mtpa by greater utilisation of existing equipment, and an increase in rail transport and shipping movements, as documented in schedule 1 of this statement.
- Proponent:** Hamersley Iron Pty Limited
- Proponent Address:** Level 22, Central Park, 152 - 158 St George's Terrace,  
PERTH WA 6837
- Assessment Numbers:** (original 1489) 1586

**Reports of the Environmental Protection Authority:** Bulletins (original 1114) 1191

Except where the contrary intention appears, the conditions and procedures of this statement supersede the conditions and procedures of Statement No. 638 pursuant to section 45B of the *Environmental Protection Act 1986 (the Act)*.

The revised proposal, to which the above reports of the Environmental Protection Authority (**the Authority**) relate, may be implemented, subject to the following conditions and procedures:

**1 Proposal description**

- 1-1 The proponent shall implement the proposal as documented in schedule 1 of this statement subject to the conditions and procedures of this statement, unless approval is given under section 45C of the Act.

**2 Proponent Commitments**

- 2-1 The proponent shall fulfil the environmental management commitments documented in schedule 2 of this statement.
- 2-2 To the extent not already complied with, the proponent shall fulfil the environmental management commitments documented in schedule 2 of Statement 638.

Published on

25 NOV 2005

### **3 Proponent Nomination and Contact Details**

- 3-1 The proponent for the time being nominated by the Minister for the Environment (**the Minister**) under section 38(6) or (7) of the Act is responsible for the implementation of the proposal until such time as the Minister has determined to revoke the nomination of that proponent and nominate another person as the proponent for the proposal under section 38(7).
- 3-2 If the proponent wishes to relinquish the nomination, the proponent shall apply for the transfer of proponent and provide the Minister a letter with a copy of this statement endorsed by the proposed replacement proponent that the proposal will be carried out in accordance with this statement. Contact details and appropriate documentation on the capability of the proposed replacement proponent to carry out the proposal shall also be provided.
- 3-3 The nominated proponent shall notify the Chief Executive Officer of the Department of Environment (**the CEO**) of any change of contact name and address within 60 days of such change.

### **4 Commencement and Time Limit of Approval**

- 4-1 The proponent shall substantially commence the proposal within five years of the date of this statement or the approval granted in this statement shall lapse and be void.

Note: The Minister will determine any dispute as to whether the revised proposal has been substantially commenced.

- 4-2 (a) The proponent shall make application for any extension of approval for the substantial commencement of the revised proposal beyond five years from the date of this statement to the Minister, prior to the expiration of the five-year period referred to in condition 4-1.
- (b) The application shall demonstrate that:
1. the environmental factors of the proposal have not changed significantly;
  2. new, significant, environmental issues have not arisen; and
  3. all relevant government authorities have been consulted.

Note: The Minister may consider the grant of an extension of the time limit of approval not exceeding five years for each application for the substantial commencement of the proposal.

### **5 Compliance Audit and Performance Review**

- 5-1 The proponent shall prepare an audit program and submit compliance reports to the CEO which address:

1. the status of implementation of the proposal as defined in schedule 1 of this statement;
2. evidence of compliance with the conditions, procedures and commitments; and
3. the performance of the environmental management plans and programs.

Note: Under sections 48(1) and 47(2) of the Act, the CEO is empowered to monitor the compliance of the proponent with the statement and should directly receive the compliance documentation, including environmental management plans, related to the conditions, procedures and commitments contained in this statement.

5-2 The proponent shall submit to the CEO a performance review report with every second triennial report provided under the *Iron Ore (Hamersley Range) Agreement Act 1963*, from the date of this statement to the requirements of the Minister on advice of the Authority, which addresses:

1. the major environmental issues associated with implementing the project; the environmental objectives and targets for those issues; the methodologies used to achieve these; and the key indicators of environmental performance measured against those targets;
2. the level of progress in the achievement of sound environmental performance, including industry benchmarking, and the use of best available technology where practicable;
3. significant improvements gained in environmental management, including the use of external peer reviews;
4. stakeholder and community consultation about environmental performance and the outcomes of that consultation, including a report of any on-going concerns being expressed; and
5. the proposed environmental objectives and targets over the next five years, including improvements in technology and management processes.

## 6 Decommissioning Plan

- 6-1 (a) At least six months prior to the anticipated date of decommissioning operations at Dampier (Parker Point and/or East Intercourse Island Facilities), or at a time agreed with the Minister, the proponent shall prepare a Decommissioning Plan designed to ensure that the site is left in an environmentally acceptable condition to the requirements of the Minister on advice of the Authority.
- (b) The Decommissioning/Closure Plan shall address:
1. removal or, if appropriate, retention of plant and infrastructure in consultation with relevant stakeholders;

2. rehabilitations of all disturbed areas to a standard suitable for the agreed new land use(s); and
3. identification of contaminated areas, including provisions of evidence of notification and proposed management measures to relevant statutory authorities.

6-2 The proponent shall implement the Decommissioning Plan required by condition 6-1 until such time as the Minister determines, on advice of the Authority, that the proponent's decommissioning responsibilities have been fulfilled.

## 7 Dust Management

7-1 The proponent shall implement the Dust Management Plan (*Dust Management Plan Dampier Operations* prepared by Hamersley Iron, 2005).

7-2 The proponent shall implement the Dust Monitoring Program (*Hamersley Iron Dampier Port Operations Compliance with Dust Management Conditions in Ministerial Statement of Approval for 95 Million tonnes per annum (Mtpa) Expansion* prepared by Environmental Alliances, 2005).

7-3 Prior to 30 September 2006, the proponent shall submit to the CEO a revised Dust Emissions Inventory, which shall:

1. Be undertaken by a consultant approved by the CEO;
2. Include on-site dust sampling of Total Suspended Particulates (i.e. particulate matter less than 50 micrometres ( $\mu\text{m}$ )) and  $\text{PM}_{10}$  particulates;
3. Determine the effectiveness of the dust abatement measures which have been completed within the existing plant;
4. Confirm, where practicable, assumptions made in the proponent's Environmental Protection Statement, Dampier Port Upgrade to 95 Mtpa Capacity, 2003) regarding dust emissions, including the Particulate Matter less than 10  $\mu\text{m}$  component; and
5. Compare the estimated total dust emission with the predicted total dust emission presented in the abovementioned Environmental Protection Statement.

7-4 (a) The proponent shall engage a consultant approved by the CEO to undertake the Dust Dispersion Modelling of operations at 95 Mtpa at Dampier.

(b) The study shall use the revised Dust Emissions Inventory referred to in condition 7-3 to demonstrate that dust impacts (Total Suspended Particulates and Particulate Matter less than 10  $\mu\text{m}$ ) on the town of Dampier are no greater than those prior to

the upgrade (as documented in the Environmental Protection Statement, Dampier Port Upgrade to 95 Mtpa Capacity 2003).

- 7-5 (a) Prior to December 2006, the proponent shall submit to the CEO a 95 Mtpa Dust Study Report that details the findings of the Dust Dispersion Modelling work and compares and contrasts the dust dispersion modelling results with those presented in the abovementioned Environmental Protection Statement and the results obtained from the Dust Monitoring Program.
- (b) If the 95 Mtpa Dust Study Report shows that dust impacts on the town of Dampier exceed the level described in condition 7-4(b), the proponent shall submit to the CEO a Dust Exceedence Report which:
1. Describes the exceedences;
  2. Identifies reasons for the dust levels being exceeded; and
  3. Outlines what steps the proponent will take to reduce dust emissions to below the level identified in condition 7-4(b).
- (c) The Dust Exceedence Report shall be submitted to the CEO within three months of the date the Dust Study Report referred to in sub-paragraph (a) is submitted to the CEO.
- 7-6 The proponent shall engage a consultant approved by the CEO to undertake Dust Dispersion Modelling of operations at 120 Mtpa at Dampier, using the updated emissions inventory data, to demonstrate that dust impacts (Total Suspended Particulates and Particulate Matter less than 10  $\mu\text{m}$ ) on the town of Dampier are not more than 1% greater than impacts prior to the upgrade to 95 Mtpa (as documented in the proponent's Environmental Protection Statement, Dampier Port Upgrade to 95 Mtpa Capacity, 2003).
- 7-7 (a) Prior to 31 December 2007, the proponent shall submit to the CEO a 120 Mtpa Dust Study Report that details the findings of the Dust Dispersion Modelling work.
- (b) The 120 Mtpa Dust Study Report shall compare and contrast the dust dispersion modelling results with those presented in the abovementioned Environmental Protection Statement and the results obtained from the Dust Monitoring Program.
- (c) If the 120 Mtpa Dust Study Report shows that dust impacts on the town of Dampier exceed the level described in condition 7-6, the proponent shall submit to the CEO a Dust Exceedence Report which:
1. Describes the exceedences;
  2. Identifies reasons for the dust levels being exceeded; and
  3. Outlines what steps the proponent will take to reduce dust emissions to below the level identified in condition 7-6.

- (d) The Dust Exceedence Report shall be submitted to the CEO within three months of the date the Dust Study Report referred to in sub-paragraph (a) is submitted to the CEO.
- 7-8 (a) Prior to 30 September 2007, the proponent shall update the Dust Management Plan (*Dust Management Plan Dampier Operations* prepared by Hamersley Iron, 2005).
- (b) The updated Dust Management Plan shall incorporate strategies to achieve an overall reduction in dust impacts on the town of Dampier and on Aboriginal rock art sites, and shall include:
1. Identification of potential dust remediation works;
  2. Commitments to undertake practicable dust remediation works;
  3. Timelines to implement practicable dust remediation works;
  4. A review of operational and maintenance procedures to ensure that dust emissions are minimised using all 'reasonable and practicable' measures, including optimising the performance of dust suppression equipment, and where practicable, restricting potentially dusty operations during adverse weather conditions;
  5. A dust level (PM<sub>10</sub>) reduction target on existing dust levels within the town of Dampier, and a plan to achieve the target dust level reduction;
  6. An action trigger level based on the real time monitoring which when exceeded shall be reported to the CEO within 5 days of being recorded, and the report shall:
    - (i) identify (as far as practicable) the sources of the dust; and
    - (ii) where the exceedence is attributable to dust from the proponent's operations, include a description of the management actions taken, or proposed to be taken, by the proponent to reduce its emissions to below the trigger level;
  7. Frequent reporting of ambient dust levels to the community;
  8. Recording and investigating community complaints;
  9. Investigation and recording of the cause for all exceedences of the National Environment Protection Measure (for particles as PM<sub>10</sub>) in the town of Dampier;
  10. Reporting to relevant agencies of dust monitoring, complaints and progress on dust remediation works; and
  11. Management of dust levels to protect Aboriginal rock art sites.
- 7-9 The proponent shall implement the Dust Management Plan referred to in condition 7-8.
- 7-10 The proponent shall provide a current copy of the Dust Management Plan to the CEO.



## 8 Noise Management

- 8-1 Prior to 31 December 2005, the proponent shall commence the implementation of the Noise Management Plan (*Environmental Noise Management Program for Dampier Port Facility* prepared by SVT Engineering Consultants, 2004).
- 8-2 Prior to 31 December 2005, the proponent shall commence the implementation of the Noise Monitoring Program (*Environmental Noise Management Program for Dampier Port Facility* prepared by SVT Engineering Consultants, 2004).
- 8-3 Prior to 31 December 2006, the proponent shall submit to the CEO a 95 Mtpa Noise Monitoring Report to verify the accuracy of the acoustic model and to confirm the effectiveness of the proposed noise reduction measures as set out in the Noise Monitoring Program required by condition 8-2.
- 8-4 Prior to 31 December 2006, the proponent shall undertake an acoustic modelling assessment of the new plant (in isolation) using noise emissions data from the noise monitoring program, to determine if the assigned noise levels under the *Environmental Protection (Noise) Regulations 1997* are met in the town of Dampier.
- 8-5 In the event that the new plant (in isolation) operating at capacity does not meet the assigned noise levels, the proponent shall implement further noise abatement measures.
- 8-6 (a) Prior to 31 December 2006, and thereafter at intervals of two years, the proponent shall review the Noise Management Plan (*Environmental Noise Management Program for Dampier Port Facility* prepared by SVT Engineering Consultants, 2004) to identify and implement all reasonable and practicable measures to reduce noise emissions from new and existing plant.
- (b) Each review shall include the maintenance and operating procedures for the new and existing plant with a view to restricting the out-of-hours operations of noisy items of equipment (such as the existing car dumper), or scheduling of operations to minimise the out-of-hours use of noisy equipment, where practicable.
- (c) The proponent is to provide a copy of the current Noise Management Plan to the CEO.

## 9 Marine Flora and Fauna

- 9-1 (a) Prior to 31 December 2005, the proponent shall conduct a field survey of the current distribution of coral reef habitat\* within the "Special Lease 3126/3471 (Dampier Offshore Lease)", outside periods when water clarity is affected by dredging in the vicinity of the survey area.
- (b) In the survey, the proponent shall:
1. Identify the location, spatial extent and percentage cover of the different scleractinian coral communities in the area; and

2. Record existing scleractinian corals observed within the communities to species level.

\* Note: "Coral reef habitat" is defined as "areas of the seafloor that support scleractinian corals at a density of greater than 10% cover".

- 9-2 (a) Prior to 31 December 2005, the proponent shall determine the original historical\* distribution of scleractinian coral reef habitat within the Hamersley Iron State Agreement Act area and determine the cumulative coral loss resulting from human activity.

(b) This investigation shall:

1. employ historical aerial photographic records, previous environmental review documents, management plans, monitoring programs and other relevant information to assist in determining the original extent of coral habitat and historical losses; and
2. provide best, most probable and worst case estimates of coral reef habitat loss and the assumptions used for each estimate.

\* Note: "Historical distribution of scleractinian coral reef habitat" is defined as "the original distribution of coral reef habitat with a density of greater than 10% cover of the seafloor prior to European impact".

- 9-3 (a) Prior to 31 December 2005, the proponent shall prepare a Marine Management Program, to the requirements of the Minister for the Environment on advice of the Environmental Protection Authority.

(b) This Program shall address the following:

1. establishment of the environmental values and environmental quality objectives (as defined in the Environmental Protection Authority document Perth's Coastal Waters, Environmental Values and Objectives) which explicitly identify uses and values and where they will be protected;
2. the environmental quality criteria to be met in order to sustain each environmental quality objective;
3. water and sediment quality surveys, including the determination of contaminants, turbidity, temperature, dissolved oxygen and pH;
4. contaminant accumulation in biological tissues (eg. deployed oysters);
5. characterisation of the effluent and spatial extent of the Power Station outfall;
6. benthic habitat health surveys, including clear objectives to measure spatial and temporal changes/variation;



7. spatial changes to distribution of coral habitat;
8. regular marine pest surveys (every three years);
9. oil and chemical spill response;
10. a management framework to prevent or mitigate any identified environmental impacts; and
11. other parameters as determined by the Environmental Protection Authority from time to time.

9-4 The proponent shall implement the Marine Management Program required by condition 9-3.

9-5 The proponent shall design the blending stockpile and bulk heap storage areas to avoid stormwater run-off and other potential impacts on the adjacent marine environment, particularly the coral community.

9-6 The proponent is to provide a copy of the current Marine Management Plan to the CEO.

## **10 Community surveys**

10-1 Prior to 31 December 2006, and thereafter at intervals determined by the CEO (but not greater than every five years), the proponent shall conduct a survey residents in Dampier and Karratha to gauge community opinion on the impact of dust and noise emissions from the proponent's operations at Dampier.

10-2 Surveys undertaken within the meaning of condition 10-1 shall be undertaken by a consultant approved by the CEO.

10-3 In relation to dust, the surveys shall be designed to expand upon, track and compare the results of the survey commissioned by the Dampier-Sampson Dust Working Group in 2001.

10-4 The proponent is to provide a copy of the results of the surveys to the CEO.

## **11 Consultation**

11-1 The proponent shall implement the Stakeholder Consultation Strategy prepared under commitment 11 of Ministerial Statement 638.

11-2 In implementing the Stakeholder Consultation Strategy, the proponent shall convene a consultative group (such as the Coastal Community Environmental Forum) comprising local government, public authorities, Aboriginal groups and other stakeholders and community representatives with an interest in the proponent's Dampier Port operations.

11-3 The proponent will provide the group convened under condition 11-2 with details of management plans and management programs with a view to receiving feedback from the group on measures to improve environmental performance.

## **12 Public availability of documentation**

12-1 The proponent shall make the following documents available for viewing by members of the public free of charge:

- (a) the Decommissioning Plan referred to in condition 6-1;
- (b) the Dust Emissions Inventory referred to in condition 7-3;
- (c) the Dust Study Reports referred to in conditions 7-5(a) and 7-7(a);
- (d) any Dust Exceedence Reports prepared under conditions 7-5(b) and 7-7(c);
- (e) the current Dust Management Plan referred to in condition 7-8;
- (f) the Noise Monitoring Report referred to in condition 8-3;
- (g) the current Noise Management Plan referred to in condition 8-6; and
- (h) the Marine Management Plan referred to in condition 9-3.

12-2 The documents referred to in condition 12-1 should be available for viewing at a location approved by the CEO in the Shire of Roebourne and the City of Perth.

## **Procedures**

- 1 Where a condition states “to the requirements of the Minister on advice of the Authority”, the Authority will provide that advice to the Department of Environment for the preparation of written notice to the proponent.
- 2 The Authority may seek advice from other agencies or organisations, as required, in order to provide its advice to the Department of Environment.
- 3 Where a condition lists advisory bodies, it is expected that the proponent will obtain the advice of those listed as part of its compliance reporting to the CEO.
- 4 The Minister administering the Iron Ore Processing Agreement Act (or its equivalent following its gazettal) will establish a formal review mechanism to ensure that a bond is placed on the proponent at the appropriate time to facilitate completion of environmental programs.

**Notes**

1. The Minister for the Environment will determine any dispute between the proponent and the Authority or the CEO over the fulfilment of the requirements of the conditions, procedures or commitments.
2. The proponent is required to apply for a Works Approval and Licence for this project under the provisions of Part V of the Act.
3. Compliance and performance reporting will endeavour to be in accord with the timing requirements of the *Iron Ore (Hamersley Range) Agreement Act 1963*.
4. It is expected that the revision of the Noise Management Program required by condition 8-2 will form the basis for assessment of a Regulation 17 application in the future.

Dr Judy Edwards MLA  
MINISTER FOR THE ENVIRONMENT; SCIENCE

25 NOV 2005

**Schedule 1****The Proposal (Assessment No. 1586)**

The proposal is to expand iron ore operations at Dampier Port from 95 million tonnes per annum (Mtpa) to 120 Mtpa. This will be primarily through an increase in throughput of Parker Point terminal from 50 Mtpa to approximately 75 Mtpa. The capacity of the East Intercourse Island terminal is expected to remain unchanged at 45 Mtpa, although this may be increased to 48 Mtpa provided that the total capacity of the combined operations does not exceed 120Mtpa. The proposal does not include any construction work, and the increase in throughput will be achieved through greater utilisation of the existing equipment.

The main characteristics of the proposal are summarised in Table 1. This Table assumes no increase in throughput at East Intercourse Island.

**Table 1: The Key Proposal Characteristics - Parker Point**

Characteristic	Parker Point Operations (as total port throughput of 95 Mtpa as described in 95 Mtpa EPS)	Parker Point Operations following increased throughput to 120Mtpa
Project life	50 years	50 years
Total Licensed Port Capacity	95 Mtpa	120 Mtpa
Licensed Capacity of PP	50 Mtpa	75 Mtpa
Berth capacity	220 000 DWT	220 000 DWT
Wharf capacity	895m*	895 m
Number of ship loading berths	2 at 220 000 DWT and 1 at 180 000 DWT	2 at 220 000 DWT and 1 at 180 000 DWT
Blending stockpile capacity	4.7 Mt	4.7 Mt
Bulk stockpile live capacity	4 Mt	2.5 Mt
Number of products	7	7
Number of train arrivals	6 per day	8-9 per day
Rail dump cycle	80 seconds	80 seconds (average cycle)
Facility footprint	186 ha	186 ha
Major plant components	2 Car Dumpers 2 Lump Re-screening Plants 1 Sample Stations 4 Stackers 3 Reclaimers 2 Shiploaders 24 Stockpiles	2 Car Dumpers 2 Lump Re-screening Plants 1 Sample Stations 4 Stackers 3 Reclaimers 2 Shiploaders 24 Stockpiles
Plant operation	24 hours, 7 days per week	24 hours, 7 days per week
Water requirements	1 700 Ml/year	2 160 Ml/year
Shipping Movements at PP **	Approximately 390 ships per year	Approximately 500-550 ships per year
Workforce	Operations approximately 430 personnel.	Operations approximately 440 personnel.

\* the length of the wharf was increased by 100m (from 795m to 895m) following a Section 45C approval by the Minister for the Environment in December 2004.

\*\* the number of ship movements per year at East Intercourse Island will remain unchanged at approximately 300.

**Figures (attached)**

Figure 1 – Hamersley Iron Dampier Port Operations

Figure 2 – Hamersley Iron Parker Point Layout

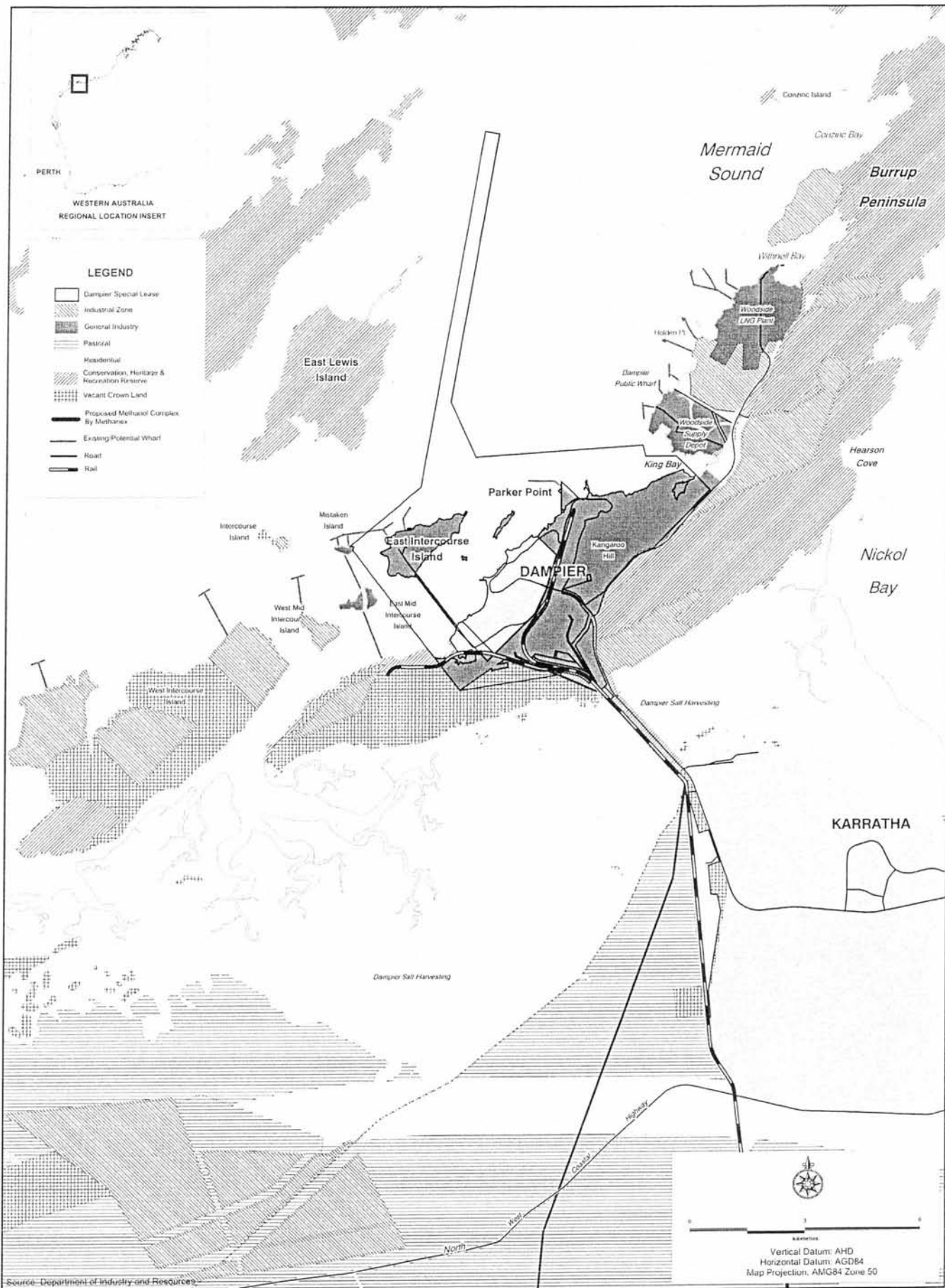


Figure 1: Hamersley Iron Dampier Port Operations





Figure 2: Dampier Operations – Parker Point Layout



**Proponent's Environmental Management Commitments**

HAMERSLEY IRON DAMPIER PORT  
UPGRADE  
TO A THROUGHPUT CAPACITY OF  
120 MILLION TONNES PER ANNUM

(Assessment No. 1586)

Hamersley Iron Pty Limited

1.

## Proponent's Environmental Management Commitments

### Hamersley Iron Dampier Port upgrade in throughput to 120Mtpa (Assessment No. 1586)

**Note:** The term "commitment" as used in this schedule includes the entire row of the table and its six separate parts as follows:

- a commitment number;
- a commitment topic;
- the objective of the commitment;
- the 'action' to be undertaken by the proponent;
- the timing requirements of the commitment; and
- the body/agency to provide technical advice to the Department of Environment.

No.	Topic	Objective	Action	Timing	Advice
1	Water Supply	Better understand where water is used and minimise water use	Develop a water balance for the port operations, incorporating the port upgrade, to identify opportunities for reductions in water demand.	Prior to 31 December 2005	
2	Water Supply	Reduce the water supply demand from port operations	As part of the port upgrade, implement water recycling and water minimisation initiatives and progress a staff awareness program of water use and minimisation.	On-going	

Attachment to Statement 702 – Change to Proposal.

**Proposal:** Hamersley Iron Dampier Port Upgrade

**Proponent:** Hamersley Iron Pty Limited

**Change:** a temporary change to the description of facilities in schedule 1 of the proposal to increase the capacity to 120 Mtpa throughput, specifically, to the railway car dumping facility and the screen house facility.

**From:**

<b>Element</b>	<b>Quantities/Description</b>
Car Dumper facility	Two car dumpers
Screen House facility	Two Lump re-screening plants

**To:**

<b>Element</b>	<b>Quantities/Description</b>
Car Dumper facility	Three car dumpers (only two operational) during commissioning in 2007, then two. Car dumper 4 replaces Car dumper 1.
Screen House facility	Three lump re-screening plants (only two operational) during commissioning in 2007, then two. Screen house SH3P replaces screen house SH1P.

**Approval Date:** 5 - DEC 2005