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Published on: 18 June 2014

Statement No: 972

**STATEMENT THAT A PROPOSAL MAY BE IMPLEMENTED  
(PURSUANT TO THE PROVISIONS OF THE  
ENVIRONMENTAL PROTECTION ACT 1986)**

Bunbury Berth 14A Expansion Project

**Proposal:** The proposal is to construct and operate a coal handling and export facility within the Bunbury Port Inner Harbour in the south-west region of Western Australia.

**Proponent:** Lanco Resources Australia Pty Ltd  
Australian Company Number 147 835 452

**Proponent Address:** Level 1  
677 Murray Street  
West Perth WA 6005

**Assessment Number:** 1886

**Report of the Environmental Protection Authority Number:** 1486

This Statement authorises the implementation of the proposal described and documented in Columns 1 and 2 of Table 2 of Schedule 1. The implementation of the proposal is subject to the following implementation conditions and procedures and Schedule 2 details definitions of terms used in the implementation conditions and procedures.

**1 Proposal Implementation**

1-1 When implementing the proposal, the proponent shall not exceed the authorised extent of the proposal as defined in Column 3 of Table 2 in Schedule 1, unless amendments to the proposal and the authorised extent of the proposal has been approved under the EP Act.

## **2 Contact Details**

- 2-1 The proponent shall notify the CEO of any change of its name, physical address or postal address for the serving of notices or other correspondence within twenty eight (28) days of such change. Where the proponent is a corporation or an association of persons, whether incorporated or not, the postal address is that of the principal place of business or of the principal office in the State.

## **3 Time Limit for Proposal Implementation**

- 3-1 The proponent shall not commence implementation of the proposal after the expiration of five (5) years from the date of this Statement, and any commencement, within this five (5) year period, must be substantial.
- 3-2 Any commencement of implementation of the proposal, within five (5) years from the date of this Statement, must be demonstrated as substantial by providing the CEO with written evidence, on or before the expiration of five (5) years from the date of this Statement.

## **4 Compliance Reporting**

- 4-1 The proponent shall prepare and maintain a compliance assessment plan to the satisfaction of the CEO.
- 4-2 The proponent shall submit to the CEO the compliance assessment plan required by condition 4-1 at least six (6) months prior to the first compliance assessment report required by condition 4-6, or prior to implementation, whichever is sooner.

The compliance assessment plan shall indicate:

- (i) the frequency of compliance reporting;
  - (ii) the approach and timing of compliance assessments;
  - (iii) the retention of compliance assessments;
  - (iv) the method of reporting of potential non-compliances and corrective actions taken;
  - (v) the table of contents of compliance assessment reports; and
  - (vi) public availability of compliance assessment reports.
- 4-3 The proponent shall assess compliance with conditions in accordance with the compliance assessment plan required by condition 4-1.
- 4-4 The proponent shall retain reports of all compliance assessments described in the compliance assessment plan required by condition 4-1 and shall make those reports available when requested by the CEO.

- 4-5 The proponent shall advise the CEO of any potential non-compliance within seven (7) days of that non-compliance being known.
- 4-6 The proponent shall submit to the CEO the first compliance assessment report fifteen (15) months from the date of issue of this Statement addressing the twelve (12) month period from the date of issue of this Statement and then annually from the date of submission of the first compliance assessment report.

The compliance assessment report shall:

- (i) be endorsed by the proponent's Managing Director or a person delegated to sign on the Managing Director's behalf;
- (ii) include a statement as to whether the proponent has complied with the conditions;
- (iii) identify all potential non-compliances and describe corrective and preventative actions taken;
- (iv) be made publicly available in accordance with the approved compliance assessment plan; and
- (v) indicate any proposed changes to the compliance assessment plan required by condition 4-1.

## **5 Public Availability of Data**

5-1 Subject to condition 5-2, within a reasonable time period approved by the CEO of the issue of this Statement and for the remainder of the life of the proposal the proponent shall make publicly available, in a manner approved by the CEO, all validated environmental data (including sampling design, sampling methodologies, empirical data and derived information products (e.g. maps)) relevant to the assessment of this proposal and implementation of this Statement.

5-2 If any data referred to in condition 5-1 contains particulars of:

- (i) a secret formula or process; or
- (ii) confidential commercially sensitive information;

the proponent may submit a request for approval from the CEO to not make this data publicly available. In making such a request the proponent shall provide the CEO with an explanation and reasons why the data should not be made publicly available.

## **6 Marine Fauna (Construction)**

6-1 Prior to the commencement of any marine pile driving and rock fracturing (blasting) activities, the proponent shall prepare a Marine Pile Driving and Rock Fracturing (Blasting) Plan subject to the approval of the CEO.

- 6-2 The objectives of the Marine Pile Driving and Rock Fracturing (Blasting) Plan are to:
- (i) minimise the need for marine pile driving and rock fracturing (blasting) in the inner harbour; and
  - (ii) for elements of the proposal where marine pile driving and rock fracturing are necessary, ensure that it has been planned and designed to minimise underwater noise emissions.
- 6-3 The Marine Pile Driving and Rock Fracturing (Blasting) Plan required pursuant to condition 6-1 shall include:
- (i) the duration, timing and methodology of each activity; and
  - (ii) best practice management technologies that will be implemented during marine pile driving and rock fracturing (blasting) activities to minimise the intensity of underwater noise emissions, including the use of vibratory pile drivers and low explosive devices.
- 6-4 During marine pile driving or rock fracturing (blasting) activities, unless otherwise agreed by the CEO, the proponent shall implement the approved plan required by condition 6-1.
- 6-5 Revisions to the Marine Pile Driving and Rock Fracturing (Blasting) Plan may be approved by the CEO.
- 6-6 The proponent shall implement the revised Marine Pile Driving and Rock Fracturing (Blasting) Plan required by condition 6-5.
- 6-7 No rock fracturing (blasting) activities shall occur between the dolphin calving periods defined as between 1 October to 31 May in any year.
- 6-8 Prior to construction and for the duration of the marine construction activities, as defined in Schedule 2, the proponent shall engage dedicated Marine Fauna Observers (observers) who must:
- (i) demonstrate a knowledge of marine wildlife species in the South-west Region of Western Australia, including Threatened and Migratory Species listed under the *Environment Protection and Biodiversity Conservation Act 1999* (EPBC Act), and Wildlife Conservation (Specially protected fauna) Notice 2010(2) (and their updates) and priority listing, and their behaviours;
  - (ii) have the capacity, subject to safety considerations, to move and make observations and other relevant records independently within 500 metres of marine construction activities;
  - (iii) be on duty during all marine construction activities; and
  - (iv) maintain a log of:
    - a. their observations of cetaceans in a format consistent with the National Cetacean Sightings and Strandings Database;

- b. observations of cetaceans, pinnipeds and penguins, including injured or dead fauna within 500 metres (m) of the marine construction activities referred to in 6-8 (ii);
- c. observations of cetaceans, pinnipeds and penguins behaviours, in particular any behaviour that could be interpreted as a display of disturbance or distress;
- d. management responses by the proponent in relation to observation of disturbed or distressed fauna, and injured or dead fauna;
- e. observation hours; and
- f. the duration of the marine construction activities.

6-9 The proponent shall within six (6) months of completing marine construction activities, lodge cetacean records with the National Cetacean Sighting and Strandings Database at the Australian Antarctic Division and with the DPaW.

6-10 The Marine Fauna Observer as required by condition 6-8 is to be present on each vessel undertaking marine construction activities, or land-based location approved by the CEO, and will be trained in marine fauna observations and mitigation measures, including the requirements of the *Wildlife Conservation (Closed Season Marine Mammals) Notice 1998*, as amended or replaced from time to time, and maintain a watch and a log of fauna observed during transit and construction activity consisting of: GPS coordinates; species (if known); and behaviour. Logs are to be submitted to the DPaW on an annual basis at the same time as submitting the compliance assessment report required by condition 4-6 to the CEO.

6-11 Subject to condition 6-7, no marine construction activities, shall commence until the observer(s) required by condition 6-8 have verified that no cetacean(s), pinniped(s) or penguin(s) have been observed within the:

- (i) Marine Fauna Observation Zone delineated in Figure 2 of Schedule 1, during rock fracturing (blasting);
- (ii) Marine Pile Driving Exclusion Zone delineated in Figure 2 of Schedule 1, during marine pile driving activities; or
- (iii) Dredging Exclusion Zone delineated in Figure 2 of Schedule 1, during dredging activities,

during the thirty (30) minute period immediately prior to commencement of the relevant marine construction activity.

6-12 Prior to commencement of full power marine pile driving, the proponent shall implement soft start-up procedures that slowly increase the intensity of noise emissions over a period of no less than fifteen (15) minutes.

- 6-13 If the observer(s) required by condition 6-8, or any other person, observes cetacean(s), pinniped(s) or penguin(s) within the:
- (i) Marine Fauna Observation Zone delineated in Figure 2 of Schedule 1, during rock fracturing (blasting);
  - (ii) Marine Pile Driving Exclusion Zone delineated in Figure 2 of Schedule 1, during marine pile driving activities; or
  - (iii) Dredging Exclusion Zone delineated in Figure 2 of Schedule 1, during dredging activities,

those activities are to be suspended.

- 6-14 Marine construction activities that have been suspended in accordance with condition 6-13 shall not recommence until the cetacean(s), pinniped(s) or penguin(s) has moved beyond:

- (i) the Marine Fauna Observation Zone delineated in Figure 2 of Schedule 1, for rock fracturing (blasting);
- (ii) Marine Pile Driving Exclusion Zone delineated in Figure 2 of Schedule 1, for marine pile driving activities; or
- (iii) Dredging Exclusion Zone delineated in Figure 2 of Schedule 1, for dredging activities,

for a period of thirty (30) minutes.

- 6-15 Marine pile driving that has been suspended for more than fifteen (15) minutes shall recommence with soft start-up procedures as required by condition 6-12.

## **7 Marine Fauna (Dolphin Monitoring)**

- 7-1 Prior to the commencement of marine construction activities, the proponent shall prepare a Dolphin Monitoring Plan subject to the approval of the CEO in order demonstrate that condition 7-2 has been met.

- 7-2 The objective of the Dolphin Monitoring Plan is to ensure that the long-term adverse impacts from marine construction activities on the abundance and distribution of the Bottlenose Dolphin in Koombana Bay are minimised, through the implementation of conditions 7-3 to 7-5.

- 7-3 The Dolphin Monitoring Plan shall include:

- (i) procedures and protocols for a monitoring program to measure dolphin abundance and distribution, consistent with the studies and long-term monitoring programs that have been undertaken in Koombana Bay;
- (ii) visual boat-based dolphin monitoring, as a component of the dolphin monitoring procedures in 7-3 (i) above;

- (iii) the temporal and spatial scales at which the protocols and procedures in 7-3 (i) would apply;
  - (iv) the reporting procedures, including the format, timing and frequency for the monitoring data and method of comparing against the available baseline data of dolphin abundance and distribution; and
  - (v) protocol's for ongoing consultation with the Dolphin Discovery Centre on dolphin monitoring results.
- 7-4 Prior to the commencement of dredging, unless otherwise agreed by the CEO, the proponent shall implement the approved plan required by condition 7-3 and continue to implement the plan during marine construction activities and for 12 months following the completion of marine construction activities.
- 7-5 A report shall be submitted to the CEO which includes trends of the abundance and distribution of the local Bottlenose Dolphins as monitored by condition 7-3 compared with the baseline data collected by the South West Marine Research Program - Cetacean Research Project, within 18 months following the completion of construction.

## **8 Marine Environmental Quality (Construction)**

- 8-1 The proponent shall ensure that impacts from marine construction activities are minimised to meet the environmental quality objectives listed in Schedule 3 within the area shown in Figure 3 of Schedule 1, through the implementation of conditions 8-2 to 8-8.
- 8-2 Prior to the commencement of dredging, the proponent shall prepare a Construction Marine Environmental Monitoring and Management Plan subject to the approval of the CEO to demonstrate that condition 8-1 has been met.
- 8-3 The Construction Marine Environmental Management and Monitoring Plan shall include for all environmental quality objectives:
- (i) the location of monitoring sites for monitoring water and biota quality, including at sites of high recreational usage;
  - (ii) a baseline water and biota quality survey plan, including contaminants of concern at monitoring sites identified pursuant to condition 8-3 (i), based on the guidelines and recommended approaches in the *Manual of Standard Operating Procedures for Environmental Monitoring against the Cockburn Sound Environmental Quality Criteria (2003-2004)*, as amended or replaced from time to time;
  - (iii) the development of trigger levels (total suspended solids not required) for the environmental quality objectives listed in Schedule 3;

- (iv) protocols, procedures and frequency for monitoring and evaluating water and biota quality at monitoring sites required under condition 8-3 (i);
  - (v) procedures for publishing the monitoring results periodically throughout the marine construction activities to inform the stakeholders and public of the monitoring results;
  - (vi) reporting procedures, including the format, timing, and frequency for the reporting of monitoring data against the relevant trigger levels and environmental quality objectives; and
  - (vii) a framework for development of management and contingency actions to be implemented in the event that any trigger levels referred to in condition 8-3 (iii) are not met.
- 8-4 Prior to the commencement of dredging, unless otherwise agreed by the CEO, the proponent shall implement the approved plan required by condition 8-1.
- 8-5 Revisions to the Construction Marine Environmental Management and Monitoring Plan may be approved by the CEO.
- 8-6 The proponent shall implement approved revisions of the Construction Marine Environmental Management and Monitoring Plan required by condition 8-5.
- 8-7 In the event that monitoring required in condition 8-3 indicates that the trigger levels, are exceeded, or likely to be exceeded, due to construction, the proponent shall:
- (i) report such findings to the CEO within 24 hours of the exceedance being identified;
  - (ii) investigate and submit a report to the CEO within seven days of the exceedance being reported, on the likely cause(s) of the trigger levels in condition 8-3(iii) being exceeded;
  - (iii) if determined by CEO to be a result of activities undertaken in implementing the proposal, the proponent shall submit actions to be taken, including the option of cessation of dredging, until the trigger levels in condition 8-3(iii) are no longer exceeded, to the CEO; and
  - (iv) the actions required by condition 8-7(iii) to meet the trigger levels shall be undertaken upon approval of the CEO.
- 8-8 The proponent shall provide spatial data for the constructed marine elements as set out in Column 2, Table 2 of Schedule 1 to the CEO within two months of completion of construction.



## **9 Marine Environmental Quality (Dredge Plume Management)**

- 9-1 The proponent shall not carry out any dredge activities as set out in Schedule 1 of this Statement between 1 November and 31 March in any year.
- 9-2 The proponent shall ensure that the extent of dredge plumes within Koombana Bay from marine construction activities are minimised, through the implementation of conditions 9-3 to 9-9.
- 9-3 Prior to the commencement of dredging, the proponent shall prepare a Dredging Environmental Monitoring and Management Plan subject to the approval of the CEO.
- 9-4 The Dredging Environmental Monitoring and Management Plan shall include:
- (i) a baseline water quality survey for total suspended solid concentrations and turbidity (NTU);
  - (ii) the duration, timing and methodology of the dredging program;
  - (iii) a spatial map of the modelled Zone of Influence in total suspended solid concentrations, based on the dredge program in (ii), above. This Zone of Influence shall be no greater than the Zone of Influence presented in Figure 10.3 of the Public Environmental Review (November 2012);
  - (iv) a 'target' level which if exceeded trigger management responses in (viii);
  - (v) a 'limit' level based on the modelled Zone of Influence in (iii), above, which if exceeded triggers the requirements of condition 9-9;
  - (vi) the location of reference and impact monitoring sites to apply to the 'target' level in (iv) and 'limit' level in (v);
  - (vii) protocols and procedures for monitoring and evaluating water quality at monitoring sites required in (vi);
  - (viii) a framework for development of management responses to be implemented in the event that the 'target' levels in (iv) are exceeded;
  - (ix) procedures for publishing the dredge program's modelled Zone of Influence in (iii), prior to the commencement of dredging to inform the stakeholders and public of the modelling results;
  - (x) descriptions of the program for intensive field sampling to be carried out within the initial period (two weeks) of dredging, to validate/calibrate the dredge model;
  - (xi) protocols and procedures for the mapping of dredge plumes and reporting the realised extent of the Zone of Influence to the CEO; and

- (xii) procedures for publishing on a fortnightly basis, throughout the dredging program, the mapped dredge plumes in (xi), above.
- 9-5 Prior to the commencement of dredging, unless otherwise agreed by the CEO, the proponent shall implement the approved plan required by condition 9-3.
- 9-6 If intensive sampling required in condition 9-4 (x) and mapped dredge plumes in 9-4 (xi) show significant differences between the predicted and realised extent of the Zone of Influence then within six (6) weeks of the commencement of dredging activities the proponent shall submit a revised Dredge Environmental Monitoring and Management Plan to the CEO. The revised Dredge Environmental Monitoring and Management Plan shall include recommendations for alternative and/or additional monitoring sites as required in condition 9-4 (vi), and management measures as required in condition 9-4 (viii).
- 9-7 Revisions to the Dredge Environmental Monitoring and Management Plan may be approved by the CEO.
- 9-8 The proponent shall implement the revised Dredge Environmental Monitoring and Management Plan required by condition 9-6.
- 9-9 In the event that monitoring required in conditions 9-4 (vii) or 9-6, indicates that the 'limit' level in condition 9-4 (v), is exceeded, or likely to be exceeded, due to dredge activities, the proponent shall:
  - (i) report such findings to the CEO within 24 hours of the exceedance being identified;
  - (ii) investigate and submit a report to the CEO within seven days of the exceedance being reported on the likely cause(s) of the 'limit' level being exceeded;
  - (iii) if determined by CEO to be a result of activities undertaken in implementing the proposal, the proponent shall submit actions to be taken to the CEO, including the cessation of dredging, until the 'limit' level is no longer exceeded or as determined by the CEO; and
  - (iv) the actions required by condition 9-9(iii) shall be undertaken upon approval of the CEO.

## **10 Benthic Communities and Habitat**

- 10-1 The proponent shall ensure the implementation of the proposal does not cause any detectable effects on the health and distribution of any benthic communities and habitat shown in Figure 4 of Schedule 1.
- 10-2 Prior to the commencement of dredging, the proponent shall prepare a Benthic Community Monitoring Plan subject to the approval of the CEO.

- 10-3 The Benthic Community Monitoring Plan required pursuant to condition 10-2 shall:
- (i) include criteria and measures for benthic community health and distribution;
  - (ii) confirm the extent and coverage of benthic communities and habitat located within Figure 4 of Schedule 1;
  - (iii) prior to the commencement of dredging, characterise the benthic community health and distribution within the area identified pursuant to condition 10-3(ii); and
  - (iv) protocols and procedures for monitoring of benthic community health and distribution following the completion of dredging to determine if condition 10-1 has been met.
- 10-4 Prior to the commencement of dredging, unless otherwise agreed by the CEO, the proponent shall implement the approved plan required by condition 10-2.
- 10-5 A report shall be submitted to the CEO following the completion of dredging detailing the health and distribution of benthic communities and habitat surveyed in condition 10-3 and the extent to which condition 10-1 is achieved.

## **11 Introduced Marine Pests**

- 11-1 The proponent shall manage all non-trading vessel activities and immersible equipment activities whilst engaged for the construction, operation, maintenance and decommissioning of the proposal so as to prevent the introduction of Introduced Marine Pests into and within State waters.
- 11-2 Prior to any non-trading vessels or immersible equipment entering the Bunbury Port Inner Harbour, the proponent shall prepare an Introduced Marine Pest Risk Assessment Procedure to the satisfaction of the CEO in consultation with the DoF which includes but is not limited to the following:
- (i) all factors to be considered in the risk assessment;
  - (ii) limits for unacceptable risk of introducing an Introduced Marine Pest;
  - (iii) a tool for performing Introduced Marine Pest Risk Assessments; and
  - (iv) measures to be implemented to reduce risks to an acceptable level, where the risk assessment identifies an unacceptable risk.

- 11-3 The proponent shall ensure any non-trading vessels or immersible equipment are subject to an Introduced Marine Pest Risk Assessment, prior to entering or demobilising from the Bunbury Port Inner Harbour, in accordance with the Introduced Marine Pest Risk Assessment Procedure approved pursuant to condition 11-2.
- 11-4 The proponent shall ensure that any Introduced Marine Pest Risk Assessment undertaken pursuant to condition 11-3 is recorded and that record is provided to the DoF within seven (7) days of the Introduced Marine Pest Risk Assessment being undertaken.
- 11-5 The proponent shall ensure that any non-trading vessels or immersible equipment that poses an unacceptable risk, as defined by the limits identified under condition 11-2(ii), of introducing Introduced Marine Pests, as determined by an Introduced Marine Pest Risk Assessment undertaken pursuant to condition 11-3, does not enter Bunbury Port Inner Harbour.
- 11-6 Prior to any non-trading vessels or immersible equipment entering the Bunbury Port Inner Harbour, the proponent shall prepare an Introduced Marine Pests Monitoring Program to the satisfaction of the CEO in consultation with the DoF that:
- (i) is consistent with monitoring design, implementation and reporting standards as set out in the *National System for the Prevention and Management of Marine Pest Incursions (National System<sup>1</sup>)*;
  - (ii) includes a minimum monitoring frequency of once per year and/or consistent *National System for the Prevention and Management of Marine Pest Incursions (National System)*; and
  - (iii) requires opportunistic sampling and analysis of specimens removed during port, vessel and immersible equipment monitoring activities.
- 11-7 The proponent shall implement the Introduced Marine Pests Monitoring Program approved pursuant to condition 11-6, or amended versions approved by the CEO for the life of the proposal, prior to any entry to the Bunbury Port Inner Harbour by any non-trading vessel or immersible equipment.
- 11-8 The proponent shall provide the results of monitoring undertaken pursuant to condition 11-7 to the CEO and the DoF annually.
- 11-9 Prior to any non-trading vessel or immersible equipment entering the Marine Project Area, the proponent shall prepare an Introduced Marine Pests Management Strategy to the satisfaction of the CEO in consultation with the DoF, to prevent wherever practicable, the

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<sup>1</sup> National System - The Intergovernmental Agreement on Biosecurity (IGAB)

establishment and proliferation of any Introduced Marine Pest, aiming to control and potentially eradicate that Introduced Marine Pest, and to minimise the risk of that Introduced Marine Pest being transferred to other locations within Western Australia.

11-10 The proponent shall notify the CEO, the DoF and any relevant Port Authority:

- (i) within 24 hours following initial detection of a suspected Introduced Marine Pest; and
- (ii) within 24 hours following subsequent analysis and confirmation of species identification of the suspected Introduced Marine Pest.

11-11 In the event that any Introduced Marine Pest is suspected or detected, the proponent shall, in consultation with the DoF and the CEO, implement the Introduced Marine Pests Management Strategy.

11-12 The proponent is to submit a report detailing the outcomes of any implementation of the Introduced Marine Pests Management Strategy to the DoF and the CEO within thirty (30) days of the commencement of the implementation of the Introduced Marine Pests Management Strategy and thereafter as required by the CEO in consultation with the DoF.

## **12 Community consultation**

12-1 The proponent shall consult with the relevant stakeholders during development of the plans and programs required by the conditions of this Statement prior to submission to the CEO for approval.

[Signed 18 June 2014]

Albert Jacob MLA  
**MINISTER FOR ENVIRONMENT; HERITAGE**

**Table 1: Summary of the Proposal**

<b>Proposal Title</b>	Lanco Bunbury Berth 14A Expansion Project
<b>Short Description</b>	<p>The proposal is to construct and operate Berth 14A within the Inner Harbour of Bunbury Port to accommodate the storage and export of 15 Mtpa of coal.</p> <p>Marine infrastructure includes:</p> <ul style="list-style-type: none"> <li>• Berth structure with rock armour seawall and sheet pile wall and rock armour slope protection;</li> <li>• Jetty, wharf, two (2) dolphin mooring stations and a ship loading rail structure running the length of the jetty.</li> </ul> <p>Terrestrial infrastructure includes:</p> <ul style="list-style-type: none"> <li>• Material handling facility – including train unloader, conveyors and fully enclosed coal storage facility;</li> <li>• One (1) ship loading facility; and</li> <li>• Rail loop.</li> </ul>

**Table 2: Location and authorised extent of physical and operational elements**

<b>Column 1</b>	<b>Column 2</b>	<b>Column 3</b>
<b>Element</b>	<b>Location/Description</b>	<b>Authorised Extent</b>
Terrestrial Elements	Includes coal storage facility, train unloader, conveyors, ship loader, rail loop, roads and supporting infrastructure within the proposal's Development Envelope shown in Figure 1.	<ul style="list-style-type: none"> <li>• Terrestrial ground disturbance of up to 30 ha.</li> <li>• Clearing of up to 2 ha of native vegetation.</li> <li>• Rail loop beginning on the northern side of the Preston River.</li> </ul>
Marine Elements	Includes a berth pocket, navigational channel, and berth structure consisting of a rock armour seawall with sheet pile wall and rock armour slope protection within the proposal's Development Envelope shown in Figure 1.	<ul style="list-style-type: none"> <li>• Marine component of the proposal's Development Envelope.</li> </ul>
Construction Activities	Clearing, dry-land excavation and marine dredging of the berth pocket and berth structure, and approach channel located within the proposal's Development Envelope shown in Figure 1.	<ul style="list-style-type: none"> <li>• Marine dredging volume of up to 1.9 million m<sup>3</sup>.</li> <li>• Rock fracturing (blasting) of up to 20,000 m<sup>3</sup> of Bunbury Basalt.</li> </ul>

**Table 3: Abbreviations**

<b>Abbreviation</b>	<b>Term</b>
CD	Chart Datum
ha	Hectares
m <sup>3</sup>	Cubic Metres
Mtpa	Million tonnes per year
DPaW	Department of Parks and Wildlife
DoF	Department of Fisheries

**Figures (attached)**

Figure 1 – Location of Proposal and Development Envelope

Figure 2 – Exclusion zones for marine construction activities

Figure 3 – Environmental Quality Protection Area (Construction)

Figure 4 – Benthic Communities and Habitat within Koombana Bay



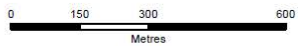
LEGEND

 Development Envelope

SOURCE DATA

Shapefiles: Proponent Supplied, georeferenced  
SLIP: Bunbury Townsite Nov 2012 Mosaic  
File No: 20130625\_Koombana\_Bay\_map  
Bufferzones  
Location Path: I:\Projects\lepas\minor\_projects  
Imarine\20130624\_Lanco\_Resources\_Bunbury  
\_Berth

Disclaimer:  
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Projection: Map Grid of Australia Zone 50  
Datum: Geocentric Datum of Australia, 1994  
Scale: 1:12,000

LOCALITY MAP



Figure 1: Location of Proposal and Development Envelope








<p><b>LEGEND</b></p> <ul style="list-style-type: none"> <li><span style="border: 2px solid blue; display: inline-block; width: 20px; height: 10px; margin-right: 5px;"></span> Development Envelope</li> <li><span style="border-bottom: 2px solid black; display: inline-block; width: 20px; margin-right: 5px;"></span> Dredging Exclusion Zone</li> <li><span style="border: 2px solid red; display: inline-block; width: 20px; height: 10px; margin-right: 5px;"></span> Marine Pile Driving Exclusion Zone</li> <li><span style="border: 2px solid yellow; display: inline-block; width: 20px; height: 10px; margin-right: 5px;"></span> Marine Fauna Observation Zone</li> </ul>	<p><b>SOURCE DATA</b>                  Shapefiles: Proponent Supplied, georeferenced                  SLIP: Bunbury TownsiteNov 2012Mosaic                  File No: 20130625_Koombana_Bay_map                  Bufferzones                  Location Path: I:\Projects\epas\minor_projects\lmanne\20130624_Lanco_Resources_Bunbury_Berth</p> <p><small>Disclaimer:                  This map is intended as a generalised interpretation of environmental issues. The information contained on this map is to be considered indicative only and in no event shall the Environmental Protection Authority be liable for any incident or consequential damages resulting from use of the material.                  Copyright: Environmental Protection Authority, 2013. All rights reserved.                  All other rights and information reserved are subject to copyright. For the reproduction or publication of this map, permission must be sought from the Authority.</small></p>	<p style="text-align: center;">                  GOVERNMENT OF WESTERN AUSTRALIA                  Office of the EPA</p> <p style="text-align: center;">N  </p> <p style="text-align: center;">0 200 400 800                  Metres</p> <p style="text-align: center;">Projection: Map Grid of Australia Zone 50                  Datum: Geocentric Datum of Australia, 1994                  Scale: 1:16,000</p>	<p><b>LOCALITY MAP</b></p>  <p style="text-align: center;">PERTH</p>
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Figure 2: Exclusion zones for marine construction activities








<p><b>LEGEND</b></p> <p> Environmental Quality Protection Area</p>	<p><b>SOURCE DATA</b> Shapefiles: Koombana_Bay SLIP: Bunbury 2031 Oct Nov 2010 Mosaic</p> <p>File No: 20130605_Koombana_Bay Location Path: U:\Working\Benthic Communities and Habitat - Koombana Bay</p> <p><small>Disclaimer: This map is intended as a generalised interpretation of environmental issues. The information contained on this map is to be considered indicative only and in no event shall the Environmental Protection Authority be liable for any incident or consequential damages resulting from use of the material. Copyright Environmental Protection Authority, 2012. All Rights Reserved. All marks and information contained are subject to Copyright. For the reproduction in publication beyond that permitted by the Commonwealth Copyright Act 1969 written permission must be sought from the Authority.</small></p>	 <p>0 250 500 1,000 Metres</p> <p>Projection: Map Grid of Australia Zone 50 Datum: Geocentric Datum of Australia, 1994 Scale: 1:20,000</p>	<p><b>LOCALITY MAP</b></p>  <p>PERTH</p>
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Figure 3: Environmental Quality Protection Area (Construction)





Figure 4: Benthic Communities and Habitat within Koombana Bay

## Schedule 2

Term or Phrase	Definition
ANZECC Guidelines	Australian and New Zealand Environment and Conservation Council and Agriculture and Resource Management Council of Australia and New Zealand 2000, Australian Water Quality Guidelines for Fresh and Marine Waters.
CEO	The Chief Executive Officer of the Department of Public Service of the State responsible for the administration of section 48 of the Environmental Protection Act 1986, or his delegate.
EPA	Environmental Protection Authority
EP Act	<i>Environmental Protection Act 1986</i>
Marine Construction Activities	Dredging, marine pile driving and rock fracturing (blasting) activities as detailed in Table 2 - Construction Activities, of Schedule 1.
Marine Pile Driving	Means driving structural supports into the ground below the waterline.
Zone of Influence	As defined in Environmental Assessment Guideline No. 7 for Marine Dredging Proposals.
Introduced Marine Pest	Means any marine species that poses a threat to the Western Australian environment or industry, if introduced, established or translocated. The marine species that are considered to pose a threat as outlined above include those detailed in the <i>Western Australian Prevention List for Introduced Marine Pests</i> , Department of Fisheries (2012), as amended from time to time and other species that appear to have clear adverse impacts or invasive characteristics.

**The Environmental Quality Objectives and Level of Ecological Protection to be achieved in marine waters of Koombana Bay during marine construction activities.**

Environmental Values	ENVIRONMENTAL QUALITY OBJECTIVES AND THEIR DESCRIPTIONS
<p><b>Ecosystem Health</b></p>	<p><b><i>Maintenance of ecosystem integrity.</i></b>  Ecosystem integrity is considered in terms of structure (e.g. the biodiversity, biomass and abundance of biota) and function (e.g. food chains and nutrient cycles).</p> <p>A high level of ecological protection shall apply to the marine waters of Koombana Bay. This means to allow small changes in the quality of water, sediment and biota (e.g. small changes in contaminant concentrations and toxicology with no resultant detectable changes beyond natural variation in the diversity of species and biological communities, ecosystem processes and abundance/biomass of marine life).</p> <p>For this protection level the 99% species protection guideline trigger values* for toxicants in water apply (except for cobalt for which the 95% species protection guideline should apply) and for other physical and chemical parameters the trigger values are based on the 80th percentile of natural background measurements. Trigger values should be derived in accordance with the recommended approaches in ANZECC &amp; ARMCANZ (2000). For sediments the ISQG-low* apply.</p>
<p><b>Fishing and Aquaculture</b></p>	<p><b><i>Maintenance of seafood for human consumption</i></b>  Seafood is safe for human consumption when collected or grown in Port waters.</p>
<p><b>Recreation and Aesthetics</b></p>	<p><b><i>Maintenance of primary contact recreation values</i></b>  Primary contact recreation (e.g. swimming) is safe to undertake in Port waters.</p> <p><b><i>Maintenance of secondary contact recreation values</i></b>  Secondary contact recreation (e.g. boating) is safe to undertake in Port waters.</p>

**Schedule 4**

**BUNBURY BERTH 14A EXPANSION PROJECT**

**Coordinates that define the Development Envelope**

<b>Coordinate No.</b>	<b>Easting</b>	<b>Northing</b>
0	376261.9832	6313235.507
1	376495.0031	6312946.947
2	376816.4093	6312538.948
3	376810.0715	6312443.183
4	376801.3166	6312415.036
5	376784.2946	6312388.445
6	376784.2418	6312378.639
7	376786.7521	6312369.435
8	376792.6094	6312356.605
9	376842.815	6312304.168
10	376816.3176	6312276.276
11	376730.3601	6312364.276
12	376345.794	6312745.833
13	376307.7631	6312799.633
14	376233.1362	6312906.028
15	376197.9222	6312955.95
16	376184.5424	6312971.885
17	376166.1901	6312989.825
18	376145.3915	6313005.263
19	376127.967	6313014.14
20	376109.7551	6313019.708
21	376089.8842	6313026.082
22	376067.5668	6313029.953

<b>Coordinate No.</b>	<b>Easting</b>	<b>Northing</b>
23	376046.9272	6313031.369
24	376026.297	6313031.96
25	376005.7042	6313029.251
26	375985.1301	6313024.893
27	375963.7405	6313019.701
28	375945.6877	6313011.247
29	375927.6443	6313001.968
30	375907.9793	6312990.195
31	375893.6841	6312977.741
32	375877.3558	6312962.707
33	375864.3269	6312947.71
34	375852.9664	6312931.083
35	375842.4494	6312912.815
36	375836.0285	6312897.068
37	375830.4793	6312877.206
38	375827.3203	6312864.796
39	375825.033	6312848.272
40	375822.7456	6312831.747
41	375822.8673	6312821.024
42	375841.8214	6312719.298
43	375854.548	6312690.663
44	375869.8199	6312667.119
45	375889.5461	6312637.848

Coordinate No.	Easting	Northing
46	375910.5449	6312613.986
47	376379.5195	6312156.465
48	376406.5635	6312131.967
49	376421.8354	6312118.604
50	376444.7432	6312105.241
51	376472.7417	6312093.15
52	376497.5585	6312088.06
53	376524.2844	6312084.242
54	376549.7375	6312084.878
55	376572.009	6312089.969
56	376613.3704	6312102.059
57	376618.4611	6312100.15
58	376620.3701	6312092.514
59	376619.0974	6312091.241
60	376601.2802	6312086.151
61	376569.4637	6312079.788
62	376543.3742	6312077.879
63	376509.6488	6312077.879
64	376477.196	6312084.878
65	376446.6522	6312095.059
66	376421.199	6312109.695
67	376410.3814	6312115.422
68	376389.3826	6312135.148
69	375910.5449	6312600.305
70	375875.5468	6312642.302
71	375854.548	6312675.392

Coordinate No.	Easting	Northing
72	375828.4585	6312714.844
73	375807.4596	6312753.024
74	375797.2784	6312774.659
75	375792.0787	6312790.731
76	375715.993	6312715.869
77	375523.5498	6312518.174
78	375358.8205	6312458.971
79	375239.266	6312453.49
80	375186.4483	6312455.365
81	375128.4757	6312475.331
82	375098.5757	6312493.14
83	375086.0908	6312502.898
84	375077.7301	6312512.703
85	375075.9494	6312524.232
86	375076.6161	6312538.181
87	375082.9808	6312558.876
88	375096.8814	6312569.758
89	375279.6689	6312673.301
90	375295.1817	6312687.501
91	375348.8535	6312755.755
92	375375.5677	6312800.605
93	375378.605	6312823.738
94	375374.4727	6312897.111
95	375370.0678	6312921.809
96	375374.9139	6312930.938
97	375315.2977	6313023.068

<b>Coordinate No.</b>	<b>Easting</b>	<b>Northing</b>
98	375475.9737	6313112.335
99	375583.1102	6313194.395
100	375605.0051	6313155.046
101	375701.531	6313227.086
102	375853.8355	6313254.387
103	375951.5378	6313331.803
104	376041.1562	6313430.988
105	376050.1638	6313436.864
106	376061.6554	6313441.944
107	376096.2236	6313448.936
108	376106.8342	6313458.956
109	376152.9234	6313541.148
110	376319.8798	6313658.533
111	376345.7958	6313628.305
112	376300.9446	6313582.424
113	376352.889	6313512.068
114	376353.8729	6313498.056
115	376145.2805	6313342.25
116	376210.4317	6313271.219
117	376229.562	6313257.413
118	376261.9832	6313235.507



## Notes

The following notes are provided for information and do not form a part of the implementation conditions of the Statement:

- The proponent for the time being nominated by the Minister for Environment under section 38(6) of the *Environmental Protection Act 1986* is responsible for the implementation of the proposal unless and until that nomination has been revoked and another person is nominated.
- If the person nominated by the Minister, ceases to have responsibility for the proposal, that person is required to provide written notice to the Environmental Protection Authority of its intention to relinquish responsibility for the proposal and the name of the person to whom responsibility for the proposal will pass or has passed. The Minister for Environment may revoke a nomination made under section 38(6) of the *Environmental Protection Act 1986* and nominate another person.
- To initiate a change of proponent, the nominated proponent and proposed proponent are required to complete and submit *Post Assessment Form 1 – Application to Change Nominated Proponent*.
- The General Manager of the Office of the Environmental Protection Authority was the Chief Executive Officer of the Department of the Public Service of the State responsible for the administration of section 48 of the *Environmental Protection Act 1986* at the time the Statement was signed by the Minister for Environment.