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Published on: 9 September 2013

Statement No: 949

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

Cape Preston East – Iron Ore Export Facility

**Proposal:** The proposal is to construct and operate an iron ore export facility at Cape Preston East in the Pilbara region of WA.

**Proponent:** Iron Ore Holdings Ltd  
Australian Company Number 107 492 517

**Proponent Address:** Level 1  
1 Altona Street  
WEST PERTH WA 6005

**Assessment Number:** 1954

**Report of the Environmental Protection Authority Number:** 1476

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 and phrases 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:

- (1) the frequency of compliance reporting;
  - (2) the approach and timing of compliance assessments;
  - (3) the retention of compliance assessments;
  - (4) the method of reporting of potential non-compliances and corrective actions taken;
  - (5) the table of contents of compliance assessment reports; and
  - (6) 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 potential 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:

- (1) be endorsed by the proponent's Managing Director or a person delegated to sign on the Managing Director's behalf;

- (2) include a statement as to whether the proponent has complied with the conditions;
- (3) identify all potential non-compliances and describe corrective and preventative actions taken;
- (4) be made publicly available in accordance with the approved compliance assessment plan; and
- (5) 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:

- (1) a secret formula or process; or
- (2) 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**

6-1 Prior to construction and for the duration of the marine construction activities the proponent shall engage dedicated Marine Fauna Observers who must:

- (1) demonstrate a knowledge of marine wildlife species in the Pilbara region, 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 priority listing, and their behaviours;
- (2) have the capacity, subject to safety considerations, to move and make observations and other relevant records independently within 500 metres of marine construction activities;
- (3) be on duty during all marine construction activities; and
- (4) maintain a log of:
  - (a) observations of cetaceans in a format consistent with the National Cetacean Sightings and Strandings Database;
  - (b) observations of cetaceans, dugongs and marine turtles, including injured or dead fauna within 500 metres of the marine construction activities referred to in condition 6-1(2);

- (c) observations of cetaceans, dugongs and marine turtles behaviour, in particular any behaviour that could be interpreted as a display of disturbance or distress;
  - (d) management responses implemented by the proponent in relation to observation of disturbed or distressed fauna, and injured or dead fauna; and
  - (e) observation hours in relation to the duration of the marine construction activities.
- 6-2 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 Department of Parks and Wildlife.
- 6-3 The Marine Fauna Observer as required by condition 6-1 is to be present on each vessel undertaking construction activities, unless otherwise authorised 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 Department of Parks and Wildlife on an annual basis at the same time as submitting the compliance assessment report required by condition 4-6 to the CEO.
- 6-4 Subject to condition 6-8, no marine construction activities shall commence until the Marine Fauna Observer (or observers) required by condition 6-1 have verified that no cetacean(s) or dugong(s) have been observed within a radius of 1,000 metres or marine turtle(s) within a radius of 300 metres from any marine construction activities during the twenty (20) minute period immediately prior to commencement of marine construction activities.
- 6-5 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.
- 6-6 If the Marine Fauna Observer(s) required by condition 6-1, or any other person, observes a marine turtle enter within 100 metres of marine construction activities, or cetacean or dugong within 500 metres of marine construction activities, those activities are to be suspended.
- 6-7 Marine construction activities that have been suspended in accordance with condition 6-6 shall not recommence until the cetacean, or dugong has moved beyond 1,000 metres from the suspended marine construction activities or the marine turtle beyond 300 metres of their own accord, or the cetacean or dugong has not been observed within 500 metres of the marine construction activities or marine turtles within 100 metres of the marine construction activities for a period of twenty (20) minutes. Marine pile driving that has been suspended for more than fifteen (15) minutes shall recommence with soft start-up procedures as required by condition 6-5.

- 6-8 No marine construction activities shall occur between sunset and sunrise during the turtle nesting season defined as 20 October to 10 March in any year.

## **7 Introduced Marine Pests**

- 7-1 The proponent shall manage 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.
- 7-2 Prior to any non-trading vessels or immersible equipment entering the Cape Preston East Marine Operations Area as required in condition 8, the proponent shall prepare an Introduced Marine Pest Risk Assessment Procedure to the satisfaction of the CEO in consultation with the Department of Fisheries which includes but is not limited to the following:
- (1) all factors to be considered in the risk assessment;
  - (2) limits for unacceptable risk of introducing an Introduced Marine Pest;
  - (3) a tool for performing Introduced Marine Pest Risk Assessments; and
  - (4) measures to be implemented to reduce risks to an acceptable level, where the risk assessment identifies an unacceptable risk.
- 7-3 The proponent shall ensure that any non-trading vessels or immersible equipment are subject to an Introduced Marine Pest Risk Assessment, prior to entering or demobilising from the Cape Preston East Marine Operations Area as required in condition 8, in accordance with the Introduced Marine Pest Risk Assessment Procedure approved pursuant to condition 7-2.
- 7-4 The proponent shall ensure that any Introduced Marine Pest Risk Assessment undertaken pursuant to condition 7-3 is recorded and that record is provided to the Department of Fisheries within seven (7) days of the Introduced Marine Pest Risk Assessment being undertaken.
- 7-5 The proponent shall ensure that any non-trading vessel or immersible equipment that poses an unacceptable risk, as defined by the limits identified under condition 7-2(2), of introducing Introduced Marine Pests, as determined by an Introduced Marine Pest Risk Assessment undertaken pursuant to condition 7-3, does not enter the Cape Preston East Marine Operations Area as required in condition 8.
- 7-6 Prior to any non-trading vessels or immersible equipment entering the Cape Preston East Marine Operations Area as required in condition 8, the proponent shall prepare an Introduced Marine Pests Monitoring Program to the satisfaction of the CEO in consultation with the Department of Fisheries that:
- (1) 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 (Marine Intergovernmental Agreement, April 2005)*;

- (2) includes a minimum monitoring frequency of once every two years and/or consistent with the *National System for the Prevention and Management of Marine Pest Incursions (Marine Intergovernmental Agreement, April 2005)*; and
  - (3) requires opportunistic sampling and analysis of specimens removed during port, vessel and immersible equipment monitoring activities.
- 7-7 The proponent shall implement the Introduced Marine Pests Monitoring Program approved pursuant to condition 7-6, or amended versions approved by the CEO for the life of the proposal, prior to any entry to the Cape Preston East Marine Operations Area as required in condition 8 by a non-trading vessel or immersible equipment.
- 7-8 The proponent shall provide the results of monitoring undertaken pursuant to condition 7-7 to the CEO and the Department of Fisheries annually.
- 7-9 Prior to any non-trading vessel or immersible equipment entering the Cape Preston East Marine Operations Area as required in condition 8, the proponent shall prepare an Introduced Marine Pest Management Strategy to the satisfaction of the CEO in consultation with the Department of Fisheries, to prevent wherever practicable, the 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.
- 7-10 The proponent shall notify the CEO, Department of Fisheries and any relevant Port Authority:
  - (1) within 24 hours following initial detection of a suspected Introduced Marine Pest; and
  - (2) within 24 hours following subsequent analysis and confirmation of species identification of the suspected Introduced Marine Pest.
- 7-11 In the event that any Introduced Marine Pests are suspected or detected, the proponent shall, in consultation with the Department of Fisheries and the CEO implement the Introduced Marine Pests Management Strategy.
- 7-12 The proponent is to submit a report detailing the outcomes of any implementation of the Introduced Marine Pests Management Strategy to the Department of Fisheries 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 Department of Fisheries.

## **8 Infrastructure Plan**

- 8-1 Prior to the commencement of marine construction activities, unless otherwise agreed by the CEO, the proponent shall prepare an Infrastructure Plan in consultation with the Department of Transport which is to be approved by the CEO.

- 8-2 The Infrastructure Plan required pursuant to condition 8-1 shall:
- (1) detail the boundary of the Cape Preston East Marine Operations Area;  
and
  - (2) detail the alignment, dimensions and locations of the key proposal elements as referred to in Columns 1 and 2 of Schedule 1.
- 8-3 The proponent shall provide spatial data for the Cape Preston East Marine Operations Area and the constructed key elements of the proposal as set out in Columns 1 and 2 of Table 2 in Schedule 1 to the CEO, 2 months prior to the commencement of construction activities.

[Signed 9 September 2013]

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

Table 1: Summary of the Proposal

<b>Proposal Title</b>	Cape Preston East – Iron Ore
<b>Short Description</b>	<p>The proposal is to design, construct and operate an iron ore export facility on the eastern side of Cape Preston approximately 60 km south-west of Dampier in the Pilbara region.</p> <p>The Marine infrastructure includes:</p> <ul style="list-style-type: none"> <li>• 200 m rock breakwater</li> <li>• 1.5 km trestle jetty</li> <li>• Navigation markers and cyclone mooring</li> <li>• Deep water transshipment anchorage points</li> <li>• Desalination plant intake and outfall pipelines</li> </ul> <p>Terrestrial infrastructure includes:</p> <ul style="list-style-type: none"> <li>• Stockyard</li> <li>• Access road corridor from North Coast Highway</li> <li>• Central Services Facility</li> <li>• Port Services Area</li> <li>• Desalination plant</li> </ul>



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

Column 1 Element	Column 2 Location	Column 3 Authorised Extent
Project development envelope	Figure 1.	Disturbance of up to 401.2 ha within a 2,942 ha development envelope.
Terrestrial infrastructure	Includes stockyard, roads, workshops, accommodation, conveyors and supporting infrastructure as shown in Figure 1.	<ul style="list-style-type: none"> <li>• Total clearing of up to 398 ha.</li> </ul>
Marine infrastructure	Includes a rock breakwater, trestle jetty, navigation aids, moorings (Figures 1 and 2) and transhipment anchorage points.	<ul style="list-style-type: none"> <li>• Disturbance of up to 3.2 ha of benthic, intertidal and coastal areas.</li> <li>• Trestle jetty up to 1.5 km offshore.</li> <li>• 200 m supporting rock structure.</li> </ul>
Desalination plant	A permanent desalination plant with ocean intake and outfall diffuser used during operation. Intake pipe to include marine fauna exclusion devices such as screening and low velocity intake of water.	<ul style="list-style-type: none"> <li>• Brine discharge up to 8.2 ML/day (3GL/year).</li> <li>• Intake velocity not to exceed 0.15 metres per second.</li> </ul>
Export operations	<ul style="list-style-type: none"> <li>• Loading of barges with ore from trestle jetty; and</li> <li>• transhipment of ore to vessels moored in deep water.</li> </ul>	

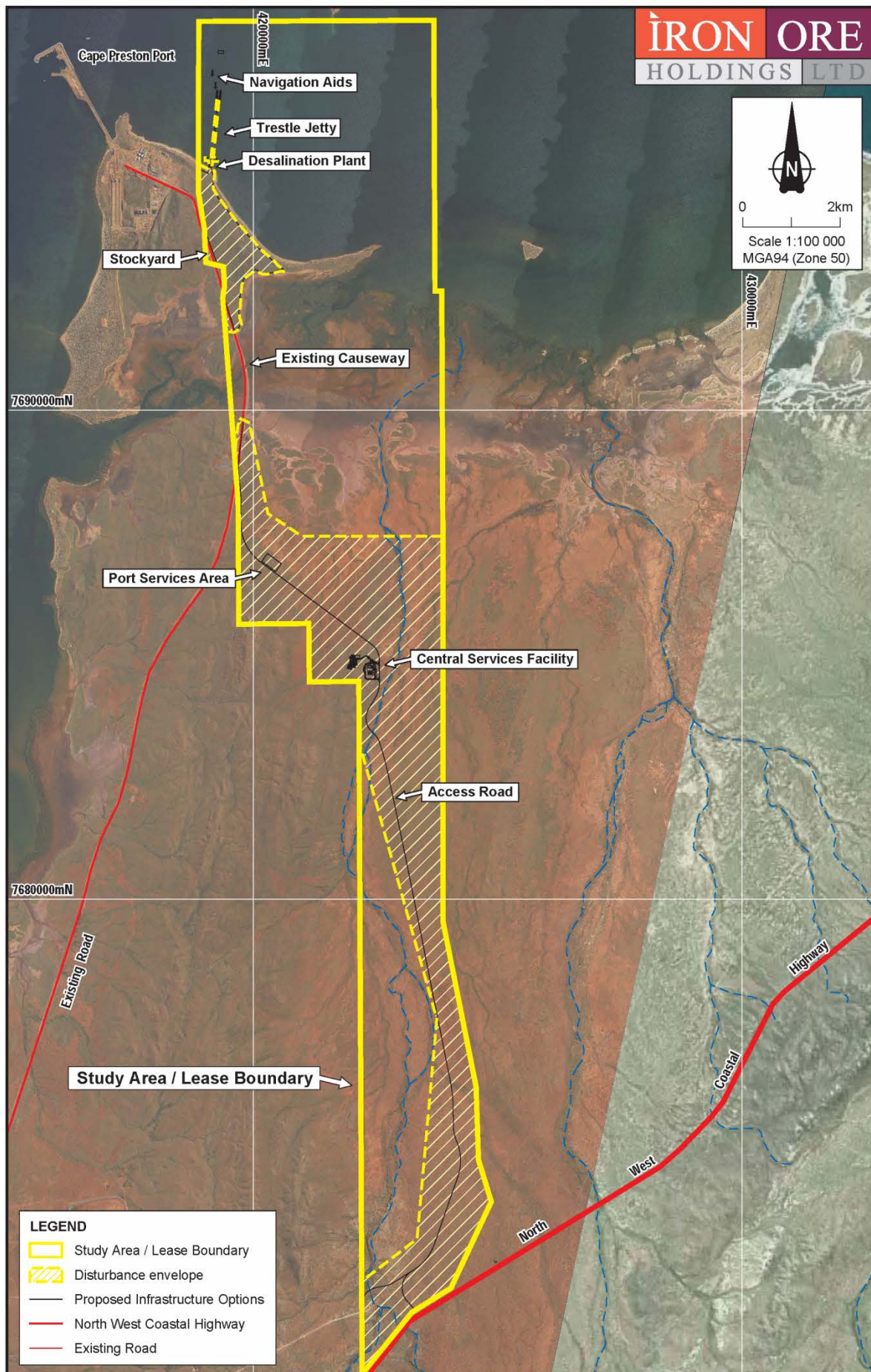
**Table 3: Abbreviations**

Abbreviation	Term
GL	gigalitres ( $10^9$ litres)
ha	Hectares
km	Kilometres
m	Metres
ML	megalitres ( $10^6$ litres)

**Figures (attached)**

Figure 1 – Location of proposal and development envelope

Figure 2 – Trestle jetty and rock breakwater infrastructure



**Figure 1 Location of proposal and development envelope**





**Figure 2 Trestle jetty and rock breakwater infrastructure**

## Schedule 2

Term or Phrase	Definition
CEO	The Chief Executive Officer of the Department of the Public Service of the State responsible for the administration of section 48 of the <i>Environmental Protection Act 1986</i> , or his delegate.
EPA	Environmental Protection Authority
Demobilising	<p>Voyage or other movement of a vessel or immersible equipment following completion of proposal related activities.</p> <p>Please note that if a demobilised vessel or immersible equipment is subsequently required to undertake proposal related activities, that vessel will be deemed to be “mobilising” and will be required to meet the relevant mobilisation requirements.</p>
EP Act	<i>Environmental Protection Act 1986</i>
Immersible equipment	Any equipment that owned by the proponent or is contracted for the construction, maintenance, operation or decommissioning this proposal, and that is put into the water but which can be readily removed and transported which would not be considered as a component of the non-trading vessel from which it is deployed. Includes but is not limited to anchors, seismic spread well heads, acoustic seabed receivers, cutter suction heads and environmental monitoring equipment.
Introduced Marine Pests	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 Western Australian Prevention List for Introduced Marine Pests, Department of Fisheries (2012), as amended from time to time and other species that appear to have clear adverse impacts or invasive characteristics.
Marine construction activities	<p>Construction activities that take place in the marine environment are:</p> <ul style="list-style-type: none"> <li>• pile driving for the trestle jetty;</li> <li>• rock dumping for breakwater construction; and</li> <li>• drilling for trestle jetty.</li> </ul>

## **Cape Preston East – Iron Ore Export Facilities**

**Co-ordinates defining the development envelope as shown in Figure 1 of Schedule 1**

Reference “Cape Preston East Export Facilities spatial data” submitted to OEPA 10 April 2013.

## 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.
- Post Assessment Forms and Guidelines may be found at [www.epa.wa.gov.au](http://www.epa.wa.gov.au)

## Attachment 1 to Ministerial Statement 949

### Change to proposal approved under section 45C of the *Environmental Protection Act 1986*

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This Attachment replaces Schedule 1 of Ministerial Statement 949

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**Proposal:** Cape Preston East – Iron Ore Export Facility

**Proponent:** BC Pilbara Iron Ore Pty Limited (formerly Iron Ore Holdings Limited)

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#### **The Proposal (Assessment No. 1954)**

##### **General Description**

The proposal is to construct and operate an iron ore export facility at Cape Preston East in the Pilbara region of WA.

##### **Changes:**

- Increase the footprint required for marine infrastructure from 3.2 hectares (ha) to 4.8 ha.
- Increase the overall project development envelope from 401.2 ha to 402.8 ha.
- Update Figure 2 and coordinates defining disturbance envelopes.

**Table 1: Summary of the Proposal**

Proposal Title	Cape Preston East – Iron Ore
Short Description	<p>The proposal is to design, construct and operate an iron ore export facility on the eastern side of Cape Preston approximately 60 km south-west of Dampier in the Pilbara region.</p> <p>The Marine infrastructure includes:</p> <ul style="list-style-type: none"><li>• 200 m rock breakwater</li><li>• 1.5 km trestle jetty</li><li>• Navigation markers and cyclone mooring</li><li>• Deep water transshipment anchorage points</li><li>• Desalination plant intake and outfall pipelines</li></ul> <p>Terrestrial infrastructure includes:</p> <ul style="list-style-type: none"><li>• Stockyard Access road corridor from North Coast Highway</li><li>• Central Services Facility</li><li>• Port Services Area</li><li>• Desalination plant</li></ul>

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

Column 1	Column 2	Column 3	Column 4
Element	Location	Authorised Extent	Previously Authorised Extent
Project development envelope	Figure 1.	<b>Disturbance of up to 402.8 ha within a 2,942 ha development envelope.</b>	Disturbance of up to 401.2 ha within a 2,942 ha development envelope.
Terrestrial infrastructure	Includes stockyard, roads, workshops, accommodation, conveyors and supporting infrastructure as shown in Figure 1.	Total clearing of up to 398 ha.	Total clearing of up to 398 ha.
Marine infrastructure	Includes a rock breakwater, trestle jetty, navigation aids, moorings (Figures 1 and 2) and transhipment anchorage points.	<ul style="list-style-type: none"> <li>• <b>Disturbance of up to 4.8 ha of benthic, intertidal and coastal areas.</b></li> <li>• Trestle jetty up to 1.5 km offshore.</li> <li>• 200 m supporting rock structure.</li> </ul>	<ul style="list-style-type: none"> <li>• Disturbance of up to 3.2 ha of benthic, intertidal and coastal areas.</li> <li>• Trestle jetty up to 1.5 km offshore.</li> <li>• 200 m supporting rock structure.</li> </ul>
Desalination plant	A permanent desalination plant with ocean intake and outfall diffuser used during operation. Intake pipe to include marine fauna exclusion devices such as screening and low velocity intake of water.	<ul style="list-style-type: none"> <li>• Brine discharge up to 8.2 ML/day (3GL/year).</li> <li>• Intake velocity not to exceed 0.15 metres per second.</li> </ul>	<ul style="list-style-type: none"> <li>• Brine discharge up to 8.2 ML/day (3GL/year).</li> <li>• Intake velocity not to exceed 0.15 metres per second.</li> </ul>
Export operations	<ul style="list-style-type: none"> <li>• Loading of barges with ore from trestle jetty; and</li> <li>• transhipment of ore to vessels moored in deep water</li> </ul>	<ul style="list-style-type: none"> <li>• Loading of barges with ore from trestle jetty; and</li> <li>• transhipment of ore to vessels moored in deep water</li> </ul>	

Note: Text in **bold** in Table 1 indicates a change to the proposal.

**Table 3: Abbreviations**

Abbreviation	Term
GL	Gigalitres (10 <sup>9</sup> litres)
ha	Hectares
km	Kilometres
m	Metres
ML	megalitres (10 <sup>6</sup> litres)



**List of Replacement Figures - Figure 1 and 2 of Schedule 1 are deleted and replaced by the following:**

Figure 1: Location of proposal and development envelope

Figure 2: Trestle Jetty and rock breakwater infrastructure

**Coordinates that define the Proposal Development Envelope**

Coordinates defining the Development Envelope, as shown in Figures 1 and 2, are held by the Office of the Environmental Protection Authority, submitted on 10 April 2013 ("Cape Preston East Export Facilities spatial data") and 17 March 2015 ("Amended Marine Facilities") respectively.

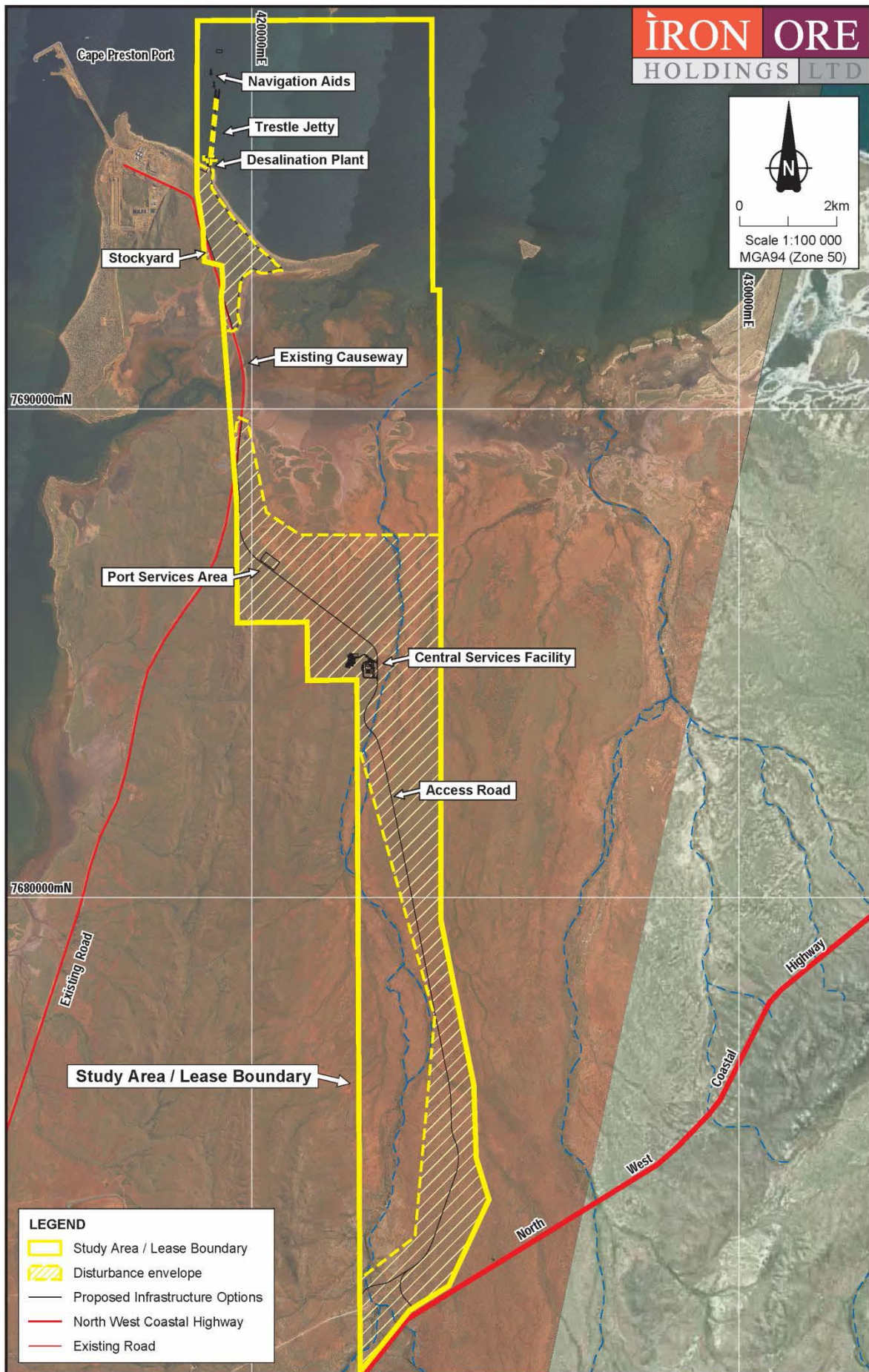
[Signed 8 April 2015]

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**Dr Paul Vogel**

CHAIRMAN

Environmental Protection Authority  
under delegated authority



**Figure 1: Location of proposal and development envelope**





**Figure 2: Trestle Jetty and rock breakwater infrastructure**

## Attachment 2 to Ministerial Statement 949

### Change to proposal approved under section 45C of the *Environmental Protection Act 1986*

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This Attachment replaces Schedule 1 and Attachment 1 of Ministerial Statement 949

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**Proposal: Cape Preston East – Iron Ore Export Facility**

**Proponent: BC Pilbara Iron Ore Pty Ltd**

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**Changes:**

- Revise the development envelope boundaries to accommodate the access road re-alignment;
- Decrease the development envelope area from 2,942 hectares (ha) to 2,552 ha;
- Increase in total disturbance from 402.8 ha to 413.2 ha; and
- Update Figures 1 and 2, and delineation coordinates.

**Table 1: Summary of the Proposal**

Proposal Title	Cape Preston East – Iron Ore Export Facility
Short Description	<p>The proposal is to design, construct and operate an iron ore export facility on the eastern side of Cape Preston East in the Pilbara region of WA.</p> <p>The Marine infrastructure includes:</p> <ul style="list-style-type: none"><li>• 200 m rock breakwater</li><li>• 1.5 km trestle jetty</li><li>• Navigation markers and cyclone mooring</li><li>• Deep water transshipment anchorage points</li><li>• Desalination plant intake and outfall pipelines</li></ul> <p>Terrestrial infrastructure includes:</p> <ul style="list-style-type: none"><li>• Stockyard Access road corridor from North Coast Highway</li><li>• Central Services Facility</li><li>• Port Services Area</li><li>• Desalination plant</li></ul>

## Attachment 2 to Ministerial Statement 949

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

Element	Location	Previously Authorised Extent	Authorised Extent
Project development envelope	Figure 1	Disturbance of up to 402.8 ha within a 2,942 ha development envelope	Disturbance of up to <b>413.2 ha</b> within a <b>2,552 ha</b> development envelope.
Terrestrial infrastructure	Includes stockyard, roads, workshops, accommodation, conveyors and supporting infrastructure as shown in Figure 1.	Total clearing of up to 398 ha.	Total clearing of up to <b>408.4 ha.</b>
Marine Infrastructure	Includes a rock breakwater, trestle jetty, navigation aids, moorings (Figures 1 and 2) and transhipment anchorage points.	<ul style="list-style-type: none"> <li>Disturbance of up to 4.8 ha of benthic, intertidal and coastal areas.</li> <li>Trestle jetty up to 1.5 km offshore.</li> <li>200 m supporting rock structure.</li> </ul>	<ul style="list-style-type: none"> <li>Disturbance of up to 4.8 ha of benthic, intertidal and coastal areas.</li> <li>Trestle jetty up to 1.5 km offshore.</li> <li>200 m supporting rock structure.</li> </ul>
Desalination plant	A permanent desalination plant with ocean intake and outfall diffuser used during operation. Intake pipe to include marine fauna exclusion devices such as screening and low velocity intake of water	<ul style="list-style-type: none"> <li>Brine discharge up to 8.2 ML/day (3GL/year).</li> <li>Intake velocity not to exceed 0.15 metres per second.</li> </ul>	<ul style="list-style-type: none"> <li>Brine discharge up to 8.2 ML/day (3GL/year).</li> <li>Intake velocity not to exceed 0.15 metres per second.</li> </ul>
Export operations	<ul style="list-style-type: none"> <li>Loading of barges with ore from trestle jetty; and</li> <li>transhipment of ore to vessels moored in deep water</li> </ul>	<ul style="list-style-type: none"> <li>Loading of barges with ore from trestle jetty; and</li> <li>transhipment of ore to vessels moored in deep water</li> </ul>	<ul style="list-style-type: none"> <li>Loading of barges with ore from trestle jetty; and</li> <li>transhipment of ore to vessels moored in deep water</li> </ul>

Note: Text in **bold** in Table 2 indicates a change to the proposal.

**Table 3: Abbreviations**

Abbreviation	Term
GL/year	gigalitres per year
ha	hectares
km	kilometres
m	metres
ML/day	megalitres per day

## Attachment 2 to Ministerial Statement 949

**Figures: Previous Figures are deleted and replaced with the following:**

Figure 1: Development envelope and disturbance footprint.

Figure 2: Trestle Jetty and rock breakwater infrastructure.

**Coordinates that define the Proposal are deleted and replaced with:**

Coordinates defining the development envelope and disturbance footprint are held by the Office of the Environmental Protection Authority (Reference Number – 2017-1492475005328).

[Signed 1 May 2017]

**Dr Tom Hatton**

CHAIRMAN

Environmental Protection Authority  
under delegated authority

Approval date: \_\_\_\_\_



# Attachment 2 to Ministerial Statement 949



**Figure 1 Development envelope and disturbance footprint**





Figure 2: Trestle Jetty and rock breakwater infrastructure