



**Notification of  
REFERRAL DECISION – not controlled action if undertaken in a particular  
manner**

**Wastewater Treatment Plant, East Rockingham, WA (EPBC 2009/4970)**

This decision is made under Sections 75 and 77A of the *Environment Protection and Biodiversity Conservation Act 1999* (EPBC Act).

**Proposed action**

<b>person named in the referral</b>	Water Corporation ABN: 28 003 434 917
<b>proposed action</b>	To construct and operate a new municipal Wastewater Treatment Plant in East Rockingham, WA [see EPBC Act referral number 2009/4970].

**Referral decision: Not a controlled action if undertaken in a particular manner**

<b>status of proposed action</b>	The proposed action is not a controlled action provided it is undertaken in the manner set out in this decision.
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**Person authorised to make decision**

<b>Name and position</b>	Ms Vicki Middleton Assistant Secretary Environment Assessment Branch
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**signature**

<b>date of decision</b>	20 November 2009
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<b>manner in which proposed action must be taken</b>	<p>The following measures must be taken to avoid significant impacts on:</p> <ul style="list-style-type: none"><li>Listed threatened species and communities (sections 18 &amp; 18A)</li></ul> <p>To protect the endangered Sedgeland in Holocene dune swales of the southern Swan Coastal Plain:</p> <ol style="list-style-type: none"><li>The person taking the action must ensure that there is no clearing or disturbance of the area of the ecological community on-site (as shown in <u>Attachment A</u>).</li><li>Prior to construction<sup>1</sup> commencing, the person taking the action must fence<sup>2</sup> the area of the ecological community on-site (as shown in <u>Attachment A</u>). The person taking the action must manage weed species<sup>3</sup> and ensure the area of the ecological community (as shown in <u>Attachment A</u>) is protected in perpetuity for conservation purposes.</li><li>The person taking the action must ensure that any dewatering<sup>4</sup> is confined to the construction zone<sup>5</sup>, and does not alter the surrounding groundwater levels to outside their normal seasonal limits<sup>6</sup>.</li></ol>
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4. In the event that a conservation reserve is established adjacent to the proposal site<sup>7</sup>, the person taking the action must;
- make available secondary treated wastewater<sup>8</sup> if, as and when required (as notified by the department<sup>9</sup>) to support the areas of the ecological community within the conservation reserve; and
  - install take-off infrastructure<sup>10</sup> to facilitate the supply of secondary treated wastewater to any future conservation reserve adjacent to the proposal site, should it be required to maintain the ecological community.

To protect the endangered Carnaby's Black Cockatoo (*Calyptorhynchus latirostris*):

5. Within twelve months of the commencement of construction, the person taking the action must plant a total of 300 Tuart (*Eucalyptus gomphocephala*) seedlings within any of the following locations:
- The proposal site<sup>7</sup>  
Kwinana Wastewater Treatment Plant site (see [Attachment B](#))  
Point Peron Wastewater Treatment Plant site (see [Attachment B](#))
6. The person taking the action must ensure that these plantings are protected in perpetuity.
7. If after three years from the date of the planting, a survival rate of 90% of the 300 seedlings (as required under requirement 5) is not achieved, all dead seedlings must be replaced within twelve months and maintained for a minimum of a further two years from replanting.

To protect listed marine species:

8. The person taking the action must ensure that after treated wastewater is disposed into the ocean and has undergone initial mixing, the ANZECC/ARMCANZ Guidelines<sup>11</sup> 99% species protection guideline trigger levels for toxicants are met at the boundary of the High Ecological Protection Area (100m from the outlet diffuser as shown in [Attachment C](#)). The exception to this requirement is Cobalt, where the 95% species protection guideline trigger levels must be met after initial mixing.

#### *Definitions*

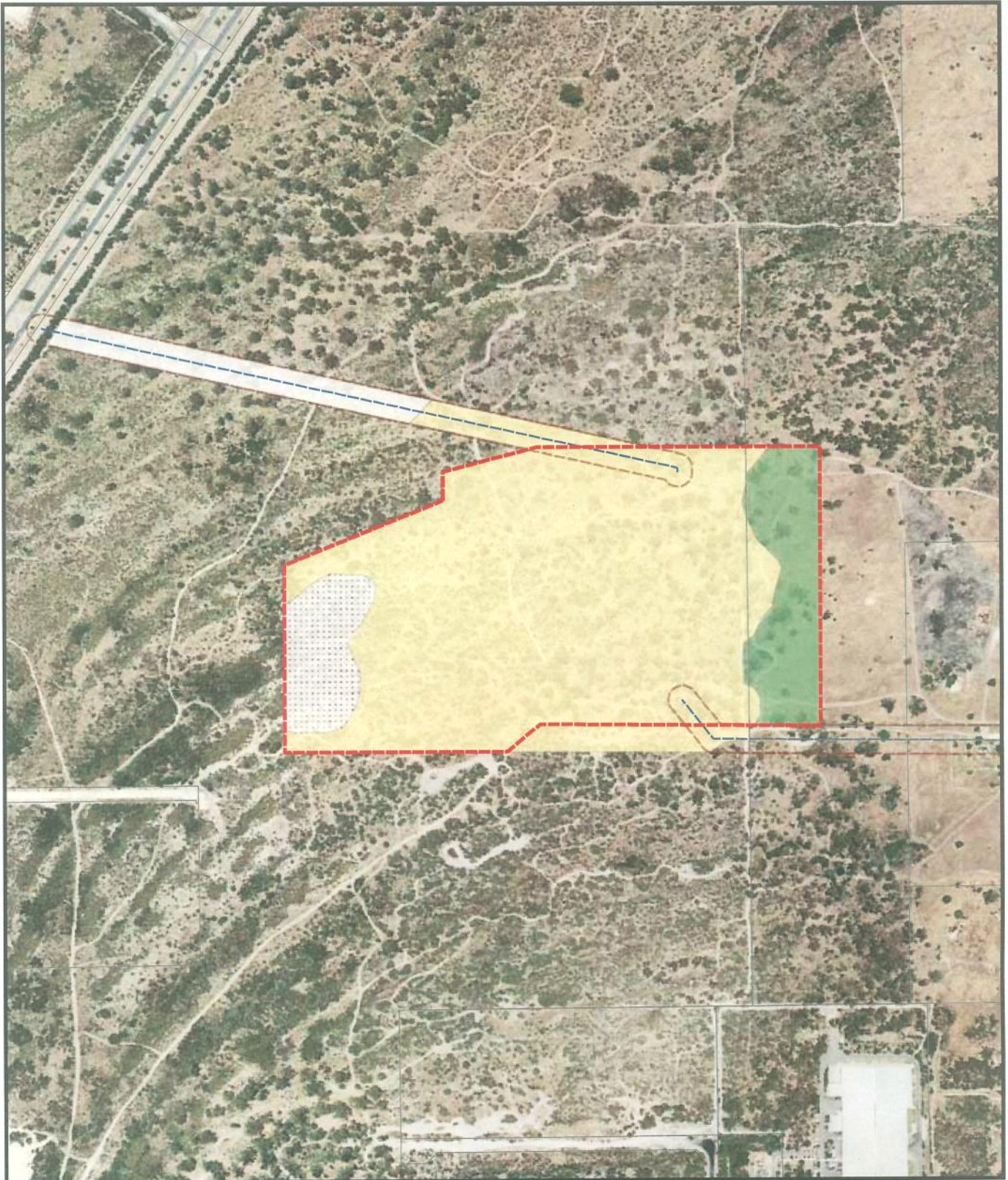
1. Construction includes any preparatory works required to be undertaken including clearing vegetation, the erection of any on-site temporary structures and/or the use of construction or excavation equipment on site for the purposes of breaking the ground for buildings or infrastructure.
2. To fence means the installation of permanent fencing designed to restrict human access around the perimeter of the area of the ecological community (as shown in [Attachment A](#)).
3. To manage weed species includes the manual removal of
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- weeds within the area of the ecological community (as shown in Attachment A) every six months for a minimum of five years from the commencement of construction.
4. Dewatering is the extraction of groundwater to enable subterranean construction below the normal groundwater level.
  5. The construction zone is the proposal site<sup>7</sup>, excluding the areas of the Sedgeland in Holocene dune swales ecological community as shown in Attachment A.
  6. The normal seasonal limits of the groundwater at the proposal site is between 1m AHD<sup>12</sup> and 2.5m AHD<sup>12</sup>.
  7. The proposal site is the total area shown at Attachment A:
    - within the Site Boundary (shown in red); and
    - within the Inlet Outlet Buffer (shown in brown).
  8. Secondary treated wastewater is the output of sewage treated to an advanced secondary standard most likely based upon the activated sludge process, achieving a high degree of nitrogen removal.
  9. The department is the Commonwealth department responsible for administering the *Environment Protection and Biodiversity Conservation Act 1999*.
  10. Take-off infrastructure consists of the necessary pipework, isolation valves and flow metering at a location on the boundary of the proposal site<sup>7</sup>, to facilitate connection of supply of secondary treated wastewater to any future adjacent conservation area.
  11. ANZECC/ARMCANZ Guidelines refers to:

ANZECC and ARMCANZ 2000, *Australian and New Zealand Guidelines for Fresh and Marine Water Quality*, Australian and New Zealand Environment Conservation Council and Agriculture and Resource Management Council of Australia and New Zealand, Canberra, ACT.
  12. AHD is the Australian Height Datum.
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#### *Attachments*

- A Map showing the construction zone and area of the ecological community
- B Map showing the Kwinana and Point Peron Wastewater Treatment Plant sites.
- C Map showing the High Ecological Protection Area and outlet diffuser in the Sepia Depression.



**Figure 8**  
**Vegetation Units**

**Legend**

- Site Boundary
- Cadastral Information
- Hydrography
- Inlet Outlet
- Inlet Outlet Buffer (20m)

**Vegetation Units**

- Eg
- Em
- Xp
- Xp (inferred area of TEC 19) - Sedgelands in Holocene dune swales

Client:	Water Corporation
Project:	East Rockingham WWTP EPBC
Drawing No:	0083144_09_GIS_EPBC Suffix No: R1
Date:	11/06/2009 Drawing size: A4
Drawn by:	DD Reviewed by: BC
Source:	-
Scale:	1:7500 @ A4



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LEGEND

- WW Pumping Station
- Wastewater Treatment Plant
- WWTP Odour Buffer
- Rising Main (> 450mm dia.)
- Rising Main (< 450mm dia.)
- Gravity Collector Main

COORDINATE SYSTEM: GDA 1984 MGA Zone 50  
 THE INFORMATION AND HEREIN IS SUBJECT TO A WARNING STATEMENT  
 AND IS NOT TO BE USED FOR ANY PURPOSES OTHER THAN THAT FOR WHICH IT WAS  
 ASSOCIATED WITH THE PROJECT.

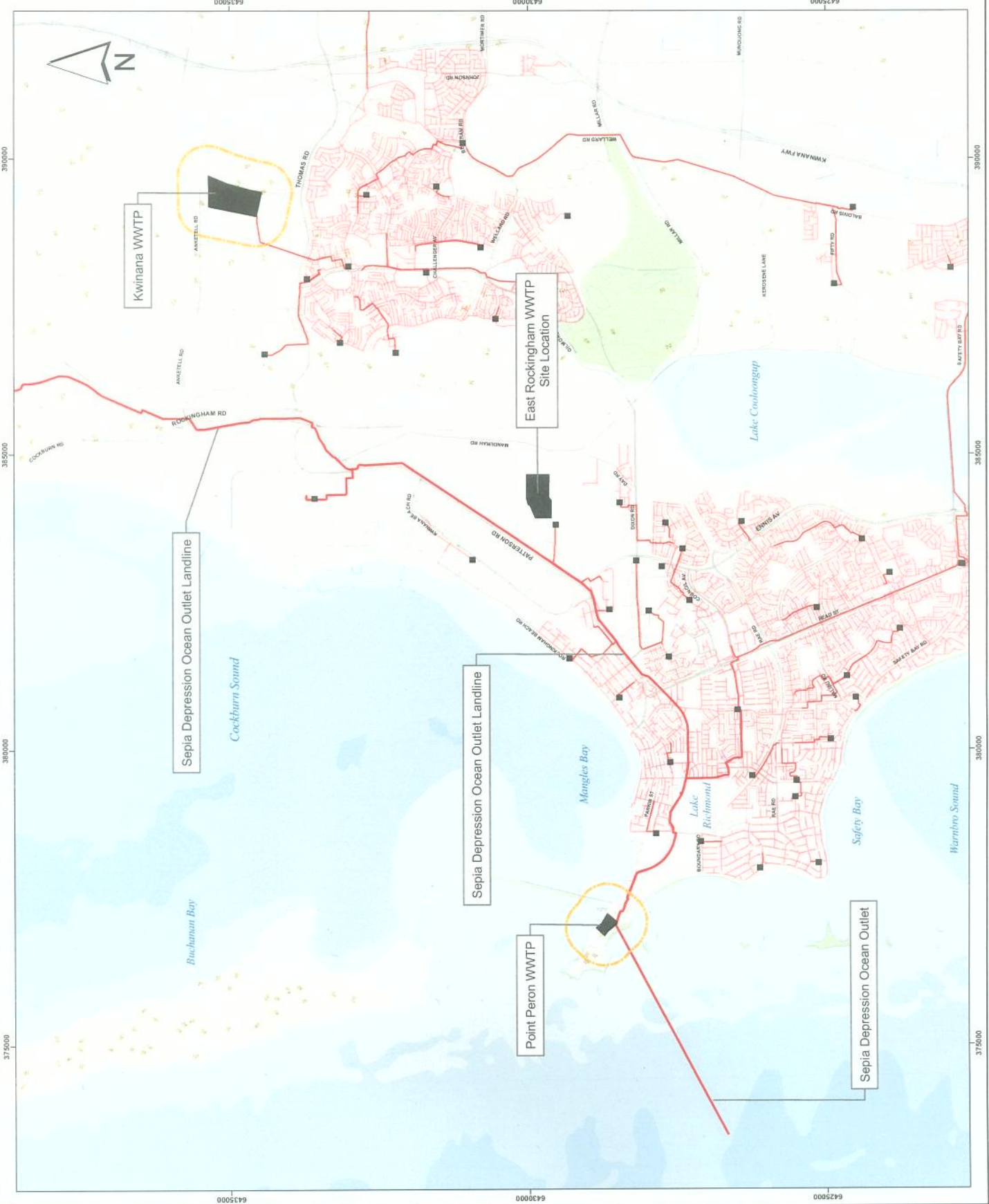
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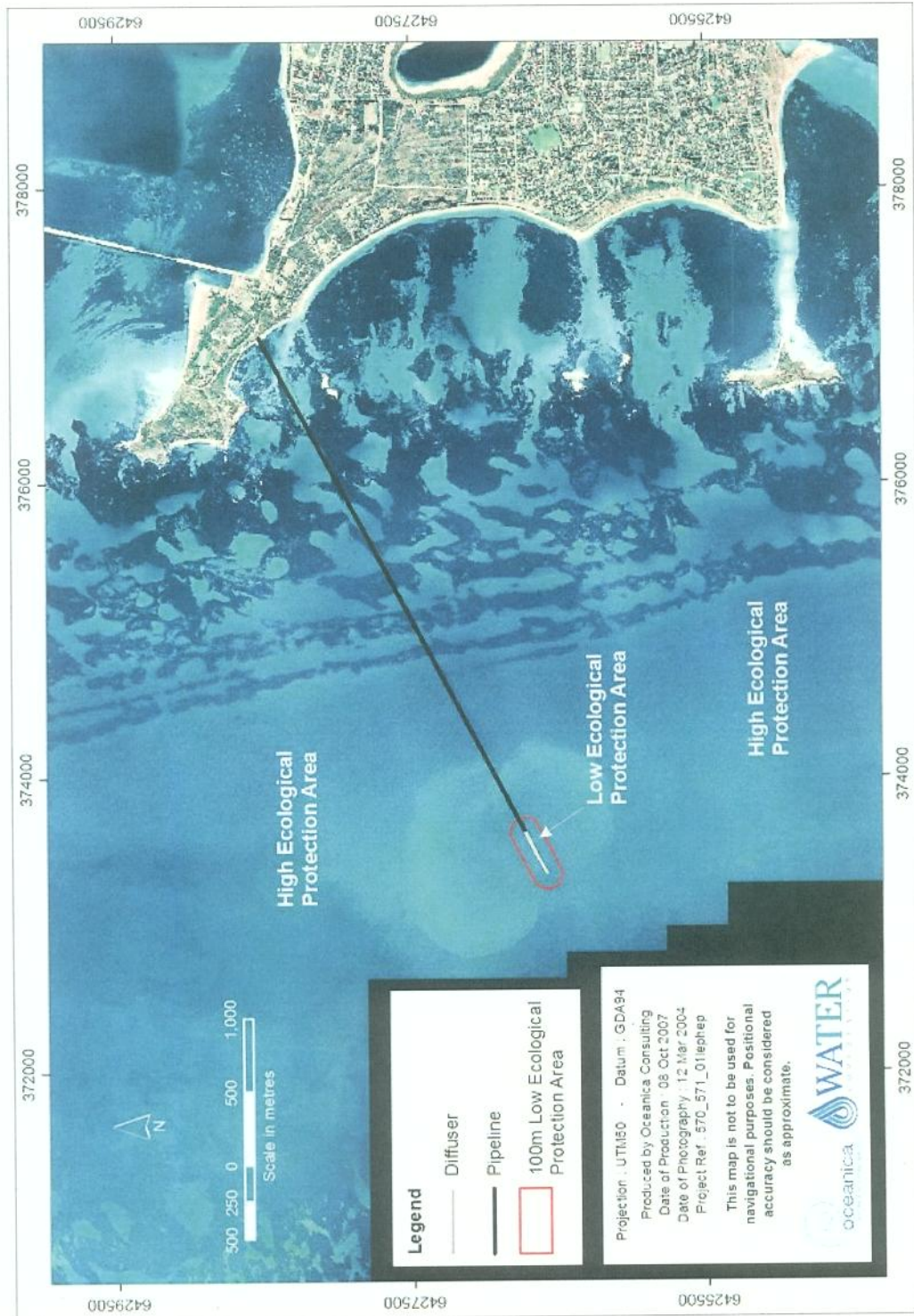
PROJECT No: 808  
 AUTHOR: TLE/TN  
 GROUP: ITR - Special Systems  
 DATE: 17-Nov-2009  
 DOCUMENT: d:\rockingham\p1.dwg



**Greater Rockingham  
 Wastewater Treatment  
 Infrastructure**



Attachment C Sepia Depression Ocean Outlet Toxicant Boundary



**Legend**

— Diffuser

— Pipeline

□ 100m Low Ecological Protection Area

Projection: UTM50 Datum: GDA94

Produced by Oceanica Consulting

Date of Production: 08 Oct 2007

Date of Photography: 12 Mar 2004

Project Ref.: 570\_571\_01lephap

This map is not to be used for navigational purposes. Positional accuracy should be considered as approximate.

