



Government of **Western Australia**  
Department of **Environment and Conservation**

Your ref: L7455/2000/7  
Our ref: NWK2082  
Enquiries: Sonya Poor  
Phone: 9182 2035  
Fax: 9144 1118  
Email: [sonya.poor@dec.wa.gov.au](mailto:sonya.poor@dec.wa.gov.au)

Mr Michael Bromell  
Environmental Advisor – Compliance  
Pilbara Iron Company (Services) Pty Ltd  
GPO Box A42  
PERTH WA 6837

Dear Mr Bromell

**ENVIRONMENTAL PROTECTION ACT 1986 – LICENCE L7455/2000/7**

**Premises name:** Pannawonica Sewage Treatment Plant  
**Premises location:** Part of Crown Lease 3116/4627, PANNAWONICA WA 6716

You are advised that your application for a licence to operate the works prescribed under the *Environmental Protection Act 1986* at the above-mentioned location has been approved subject to the attached conditions. Enclosed is your licence number **L7455/2000/7**.

If any aspect of the conditions of licence aggrieves you, you may lodge an appeal, accompanied by the \$50.00 fee, with the Minister for the Department of Environment and Conservation within 21 days from the date on which this licence is received. Members of the public may also appeal conditions. Please contact the Appeals Registrar at the Office of the Appeals Convenor on 6467 5190 after the closing date of appeals to check whether any appeals were received.

Under Section 58 of the *Environmental Protection Act 1986*, it is an offence to contravene a licence condition. This offence carries a penalty of up to \$125,000, with a daily penalty of up to \$25,000. The Department considers that a breach of this section, or any other section, of the *Environmental Protection Act 1986* to be extremely serious.

If you have any questions relating to the licence or licence conditions, please do not hesitate to contact Sonya Poor on 9182 2035 for clarification or discussion of any grievances you have.

Yours sincerely

Peter Vasel  
Manager, Works Approval & Emissions Licensing Section

Thursday, 26 May 2011

enc: Licence L7455/2000/7  
copy to: Local Government Authority: Shire of Ashburton

DIRECTOR GENERAL AND ENVIRONMENTAL SERVICES DIVISIONS: The Atrium, 168 St Georges Terrace, Perth, Western Australia 6000  
Phone: (08) 6467 5000 Fax: (08) 6467 5562 TTY: 1880 555 630

PARKS AND CONSERVATION SERVICES DIVISIONS: Executive: Corner of Australia II Drive and Hackett Drive, Crawley, Western Australia 6009  
Phone: (08) 9442 0300 Fax: (08) 9386 1578 Operations: 17 Dick Perry Avenue, Technology Park, Kensington, Western Australia 6151

Phone: (08) 9219 8000 Fax: (08) 9334 0498 TTY: 9334 0546

POSTAL ADDRESS FOR ALL DIVISIONS: Locked Bag 104, Bentley Delivery Centre, Western Australia 6983

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WESTERN AUSTRALIA

DEPARTMENT OF ENVIRONMENT AND CONSERVATION

*Environmental Protection Act 1986*

LICENCE

LICENCE NUMBER: L7455/2000/7

FILE NUMBER: NWK2082

**NAME OF OCCUPIER:**

Pilbara Iron Company (Services) Pty Ltd  
ACN: 107 210 248

**ADDRESS OF OCCUPIER:**

Level 22, Central Park  
152-158 St Georges Terrace  
PERTH WA 6000

**NAME AND LOCATION OF PREMISES:**

Pannawonica Sewage Treatment Plant  
Part of Crown Lease 3116/4627  
PANNAWONICA WA 6716  
(as depicted in Attachment 2)

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**Environmental Protection Regulations 1987**

**CLASSIFICATION(S) OF PREMISES:**

Category 54: Sewage facility

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**COMMENCEMENT DATE OF LICENCE:** Sunday, 29 May 2011

**EXPIRY DATE OF LICENCE:** Saturday, 28 May 2016

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**CONDITIONS OF LICENCE:**

As described and attached:

DEFINITION(S) (9)

GENERAL CONDITION(S) (2)

WATER POLLUTION CONTROL CONDITION(S) (6)

SOLID WASTE POLLUTION CONDITION(S) (1)

ATTACHMENT(S) (3)



.....  
Officer delegated under Section 20  
of the *Environmental Protection Act 1986*

Date of Issue: Thursday, 26 May 2011

WESTERN AUSTRALIA

DEPARTMENT OF ENVIRONMENT AND CONSERVATION

*Environmental Protection Act 1986*

LICENCE NUMBER: L7455/2000/7

FILE NUMBER: NWK2082

PREAMBLE

**Applicability**

This licence is issued to Pilbara Iron Company (Services) Pty Ltd for the Pannawonica Sewage Treatment Plant located on part of Crown Lease 3116/4627 at Pannawonica Townsite, Pannawonica (Attachment 2). This facility is a prescribed premises within Schedule 1 of the Environmental Protection Regulations 1987 as outlined in Table 1.

**Table 1: Category under which Pannawonica STP is prescribed**

Category number	Category name
54	Sewage facility

This facility services the town of Pannawonica. Wastewater is directed through an aeration and clarification package plant, then to two evaporation ponds. Any excess wastewater not evaporated in the ponds is discharged to the environment via the second evaporation pond to the designated infiltration channel.

**Other Legal Requirements**

The licensee should be aware that these conditions do not exempt the premises/licensee from other statutory obligations under the *Environmental Protection Act 1986*, or any other Acts or Regulations. This includes the licensee's obligations under the:

- Environmental Protection Regulations 1987;
- Environmental Protection (Noise) Regulations 1997;
- Environmental Protection (Unauthorised Discharges) Regulations 2004;
- Environmental Protection (Controlled Waste) Regulations 2004; and
- Environmental Protection (Clearing of Native Vegetation) Regulations 2004.

*Where there is conflict between the conditions set in this licence and any Act or Regulations, the latter takes precedence.*

**Emergency, Accident or Malfunction**

The licensee should inform the Director as soon as practicable after the identification of any discharge of waste which has occurred as a result of an emergency, accident or malfunction, or extreme weather conditions, otherwise than in accordance with any condition of this licence and has caused or is likely to cause pollution.

**Alteration to Premises**

Prior to making any significant alterations to the premises which may affect the air, water or noise emissions from the premises the licensee must submit a proposal to the Director accompanied by supporting information and plans which allow the environmental impact of that change to be assessed.

**Non-Standard Operations**

The licensee should inform the Director at least 24 hours prior to the commencement of any planned non-standard operations, which may have the potential to cause pollution.

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DEFINITIONS

In these conditions, unless inconsistent with the text or subject matter:

"Australian Standard 5667" means the most recent version and relevant part of AS/NZS 5667;

"Director" means Director, Environmental Regulation Division of the Department of Environment and Conservation for and on behalf of the Chief Executive Officer as delegated under Section 20 of the *Environmental Protection Act 1986*;

"Director" for the purpose of correspondence means:

Regional Manager, Pilbara Region  
Department of Environment and Conservation  
PO Box 835  
KARRATHA WA 6714

Telephone: (08) 9182 2000  
Facsimile: (08) 9144 1118;

"licensee" means Pilbara Iron Company (Services) Pty Ltd;

"NATA" means National Association of Testing Authorities;

"premises" means the area depicted in Attachment 2;

"Quarterly" means February, May, August and November;

"Standard Methods of Examination of Water and Wastewater-APHA-AWWA-WEF" means the best current practice of American water analysts developed by the American Public Health Association, American Water Works Association, and the Water Environment Federation; and

"STP" means Sewage Treatment Plant.

GENERAL CONDITIONS

ANNUAL ENVIRONMENTAL REPORT

- 1 The licensee shall provide the Director, by **31 March** each year, a copy of an Annual Environmental Report containing data collected, as required by any condition of this licence, during the period **1 January** the previous year and ending on **31 December** in that year.

ANNUAL AUDIT COMPLIANCE REPORT

- 2 The licensee shall by **31 August** in each year, provide to the Director an Annual Audit Compliance Report in the form in Attachment 1 to this licence, signed and certified in the manner required by Section C of the form, indicating the extent to which the licensee has complied with the conditions of this licence, and any previous licence issued under Part V of the Act for the premises, during the period beginning **1 July** the previous year and ending on **30 June** in that year.

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DEPARTMENT OF ENVIRONMENT AND CONSERVATION

*Environmental Protection Act 1986*

LICENCE NUMBER: L7455/2000/7

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**WATER POLLUTION CONTROL CONDITIONS**

**SEWAGE WASTEWATER TREATMENT SYSTEM**

- 3 The licensee shall manage the STP in a manner such that:
- (i) uncontaminated stormwater runoff does not enter the treatment system;
  - (ii) overtopping of the treatment ponds does not occur; except as a result of an extreme rainfall event (greater than a 1 in 100 year event of 72 hours duration);
  - (iii) there is not discernible seepage loss from the treatment system;
  - (iv) vegetation (emergent or otherwise) shall be prevented from growing in the treatment system; and
  - (v) any sludges removed from the treatment system are disposed of in accordance with the Western Australian Guidelines for Direct Land Application of Biosolids and Biosolids Products, February 2002.

**EVAPORATION POND FREEBOARD**

- 4 The licensee shall ensure that at least 300mm freeboard (embankment crest to wastewater level) for the two evaporation ponds is maintained, except during an extreme rainfall event.

**DISCHARGE POINT**

- 5 The licensee shall only discharge excess treated wastewater from the treatment system to the environment via the second evaporation pond to the designated infiltration channel.

**WATER – MONITORING**

- 6(a) The licensee shall, on a **monthly** basis, measure and record in cubic meters, the cumulative volumes of all waters discharged from the final treatment pond discharge point to the environment. These results shall be published in the Annual Environmental Report.
- 6(b) The licensee shall take representative water samples from the monitoring sites stated in Column 1 of Table 2, at the frequencies stated in Column 2 of Table 2, and have analysed for the concentration of the parameters listed in Column 3 of Table 2.

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**Table 2: Water Monitoring Program**

Column 1	Column 2	Column 3
Monitoring Sites	Frequency	Parameters
<b>Treated Wastewater Monitoring (Attachment 3)</b>		
final treatment pond	Quarterly	pH Biochemical Oxygen Demand Total Dissolved Solids Total Suspended Solids, Total Nitrogen Total Phosphorus Thermo-tolerant coliforms Nitrate + Nitrite-nitrogen Ammonium-nitrogen
	Biannually	Metals (µg/L) – As, Cu, Hg, Pb, Zn
<b>Ground Water Monitoring (Attachment 3)</b>		
MW1, MW2, MW3	Quarterly	Biochemical Oxygen Demand Total Dissolved Solids Total Suspended Solids Total Nitrogen Total Phosphorus Free chlorine Thermo-tolerant coliforms Nitrate + Nitrite-nitrogen Ammonium-nitrogen Metals (µg/L) – As, Cu, Hg, Pb, Zn

With the exception of pH, metals and *E.coli*, all measurements are to be reported in milligrams per litre.

- 6(c) The licensee shall collect all water samples required by part (b) of this condition, in accordance with the relevant parts of Australian Standard 5667.
- 6(d) The licensee shall ensure that all analyses required by part (b) of this condition, are conducted by an organisation with NATA accreditation for the specified parameters in accordance with the current "Standard Methods for Examination of Water and Wastewater – APHA-AWWA-WEF".
- 6(e) The licensee shall compare the analysis results of the water quality monitoring required by part (b) of this condition, to the targets stated in Column 2 of Table 3, for the corresponding parameters in Column 1 of Table 3 and present this information in the Annual Environmental Report and report any exceedances of these targets in the Annual Audit Compliance Report.

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Table 3: Final treatment pond discharge point effluent quality criteria

Column 1	Column 2
Parameter	Target Discharge
Biochemical Oxygen Demand (mg/L)	<30
Total Suspended Solids (mg/L)	<40
pH (pH units)	6-9
Total Nitrogen (mg/L)	<50
Total Phosphorus (mg/L)	<12
Thermo-tolerant coliforms (cfu/100mL)	<10 000

CALCULATION OF CONTAMINANT LOAD

- 7 The licensee shall determine the average monthly load of each parameter in the wastewater discharged from the final treatment pond (except pH and *E.coli*) using flow weighed data. These loads shall be based on the treated wastewater discharge volumes measured as required by condition 6(a) and the parameter concentrations measured as required by condition 6(b). Annual loads of each parameter shall be reported in the Annual Environmental Report in kilograms per day.

LIQUID CHEMICAL STORAGE

- 8(a) The licensee shall store environmentally hazardous chemicals including alum and hypochlorite (where the total volume of each substance stored on the premises exceeds 250 litres) within a bunded areas in accordance with Australian Standard 3780.
- 8(b) The licensee shall direct any stormwater that accumulates in the bunded area referred to in part (a) of this condition to the wastewater treatment system.

SOLID WASTE POLLUTION CONTROL CONDITIONS

TREATMENT POND MAINTAINENCE

- 9 The licensee shall ensure all sludge removed from the treatment system is only stored on-site within the lined sludge drying bed prior to disposal at an authorised disposal site. The sludge drying bed shall be managed to prevent surface runoff of leachate across the boundary of the premises. Where possible, the sludge leachate shall be returned back into the wastewater treatment system.



Officer delegated under Section 20  
of the *Environmental Protection Act 1986*

Date of Issue: Thursday, 26 May 2011

ATTACHMENT 1 – ANNUAL AUDIT COMPLIANCE REPORT

LICENCE NUMBER: L7455/2000/7

FILE NUMBER: NWK2082

**SECTION A**

**LICENCE DETAILS**

Licence Number:	Licence File Number:
Company Name:	ABN:
Trading as:	
Reporting period: _____ to _____	

**STATEMENT OF COMPLIANCE WITH LICENCE CONDITIONS**

1. Were all conditions of licence complied with within the reporting period? (please tick the appropriate box)

- Yes  Please proceed to Section C  
No  Please proceed to Section B

Each page must be initialed by the person(s) who signs Section C of this annual audit compliance report

INITIAL: \_\_\_\_\_



**ATTACHMENT 1 – ANNUAL AUDIT COMPLIANCE REPORT**

LICENCE NUMBER: L7455/2000/7

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**SECTION B - DETAILS OF NON-COMPLIANCE WITH LICENCE CONDITION.**

Please use a separate page for each licence condition that was not complied with.

a) Licence condition not complied with?	
b) Date(s) when the non compliance occurred, if applicable?	
c) Was this non compliance reported to DEC?	
<input type="checkbox"/> Yes <input type="checkbox"/> Reported to DEC verbally    Date _____ <input type="checkbox"/> Reported to DEC in writing    Date _____	<input type="checkbox"/> No
d) Has DEC taken, or finalised any action in relation to the non compliance?	
e) Summary of particulars of non compliance, and what was the environmental impact?	
f) If relevant, the precise location where the non compliance occurred (attach map or diagram)	
g) Cause of non compliance	
h) Action taken or that will be taken to mitigate any adverse effects of the non compliance	
i) Action taken or that will be taken to prevent recurrence of the non compliance	

Each page must be initialed by the person(s) who signs Section C of this annual audit compliance report  
 INITIAL: \_\_\_\_\_

**ATTACHMENT 1 – ANNUAL AUDIT COMPLIANCE REPORT**

LICENCE NUMBER: L7455/2000/7

FILE NUMBER: NWK2082

**SECTION C - SIGNATURE AND CERTIFICATION**

This Annual Audit Compliance Report may only be signed by a person(s) with legal authority to sign it. The ways in which the Annual Audit Compliance Report must be signed and certified, and the people who may sign the statement, are set out below.

Please tick the box next to the category that describes how this Annual Audit Compliance Report is being signed. If you are uncertain about who is entitled to sign or which category to tick, please contact the licensing officer for your premises.

If the licence holder is	The Annual Audit Compliance Report must be signed and certified:
an individual	<input type="checkbox"/> by the individual licence holder, or <input type="checkbox"/> by a person approved in writing by the Chief Executive Officer of the Department of Environment and Conservation to sign on the licensee's behalf.
A firm or other unincorporated company	<input type="checkbox"/> by the principal executive officer of the licensee; or <input type="checkbox"/> by a person with authority to sign on the licensee's behalf who is approved in writing by the Chief Executive Officer of the Department of Environment and Conservation.
A corporation	<input type="checkbox"/> by affixing the common seal of the licensee in accordance with the Corporations Act 2001; or <input type="checkbox"/> by two directors of the licensee; or <input type="checkbox"/> by a director and a company secretary of the licensee, or <input type="checkbox"/> if the licensee is a proprietary company that has a sole director who is also the sole company secretary – by that director, or <input type="checkbox"/> by the principal executive officer of the licensee; or <input type="checkbox"/> by a person with authority to sign on the licensee's behalf who is approved in writing by the Chief Executive Officer of the Department of Environment and Conservation.
A public authority (other than a local government)	<input type="checkbox"/> by the principal executive officer of the licensee; or <input type="checkbox"/> by a person with authority to sign on the licensee's behalf who is approved in writing by the Chief Executive Officer of the Department of Environment and Conservation.
a local government	<input type="checkbox"/> by the chief executive officer of the licensee; or <input type="checkbox"/> by affixing the seal of the local government.

*It is an offence under section 112 of the Environmental Protection Act 1986 for a person to give information on this form that to their knowledge is false or misleading in a material particular. There is a maximum penalty of \$50,000 for an individual or body corporate.*

I/We declare that the information in this annual audit compliance report is correct and not false or misleading in a material particular.

ATTACHMENT 1 – ANNUAL AUDIT COMPLIANCE REPORT

LICENCE NUMBER: L7455/2000/7

FILE NUMBER: NWK2082

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SIGNATURE: \_\_\_\_\_

SIGNATURE: \_\_\_\_\_

NAME: (printed) \_\_\_\_\_

NAME: (printed) \_\_\_\_\_

POSITION: \_\_\_\_\_

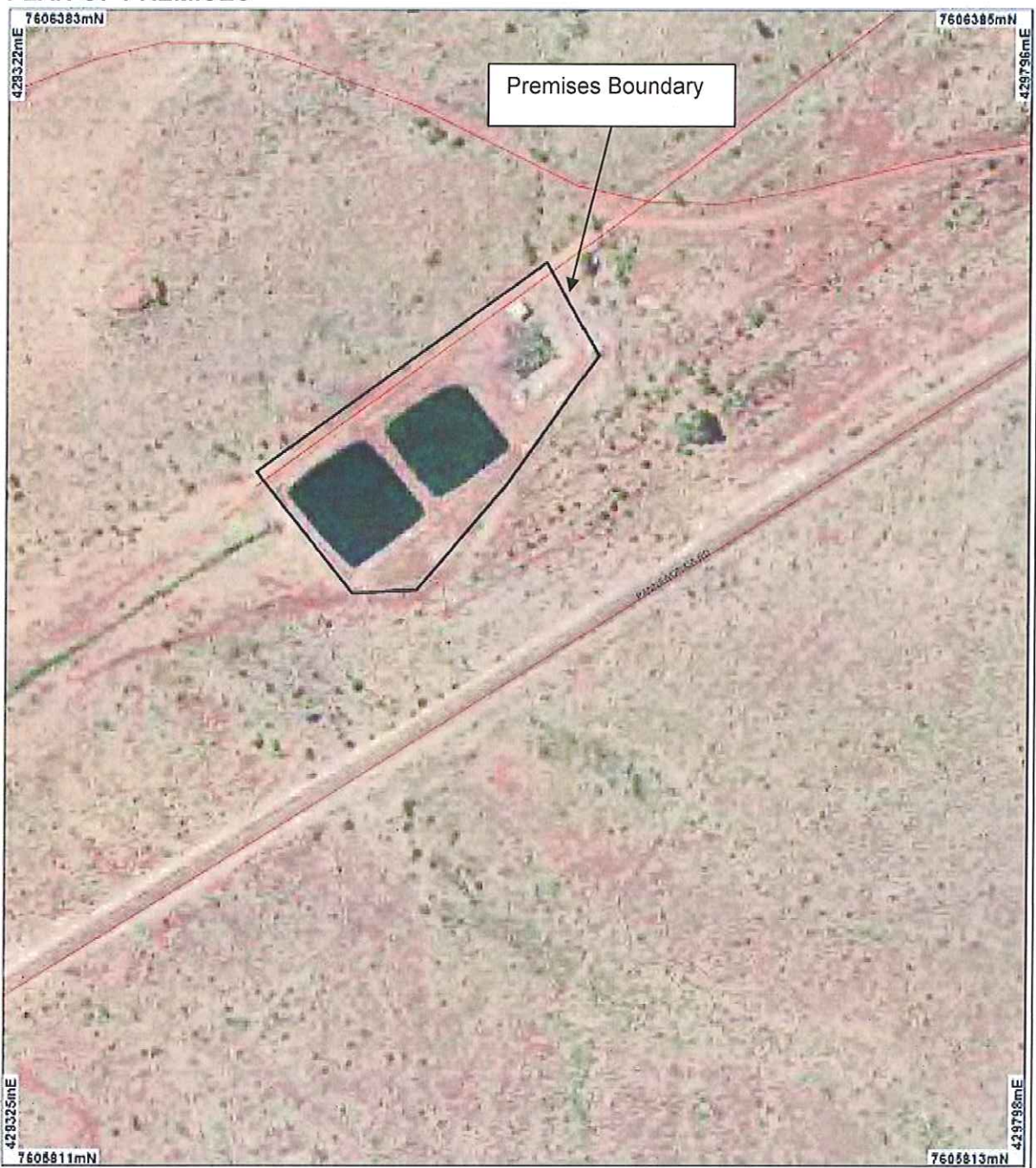
POSITION: \_\_\_\_\_

DATE: \_\_\_\_/\_\_\_\_/\_\_\_\_

DATE: \_\_\_\_/\_\_\_\_/\_\_\_\_

SEAL (if signing under seal)

PLAN OF PREMISES



**LEGEND**

<ul style="list-style-type: none"> <li> Local Government Authorities</li> <li> Road Control Lines</li> <li> Towns</li> <li> A</li> <li> B</li> <li> C</li> </ul>	<p><b>Hydrography, linear (hierarchy)</b></p> <ul style="list-style-type: none"> <li> Coastal Waterline</li> <li> Estuarine</li> <li> Infrastructure</li> <li> Insignificant TID</li> <li> Inundation Area (cont)</li> </ul>	<ul style="list-style-type: none"> <li> Minor Stream</li> <li> Major River</li> <li> Major TID</li> <li> Minor River</li> <li> Minor TID</li> <li> Water Drainage Line</li> <li> Significant Stream</li> <li> Dinnamonica 1.4m Orthomosaic - Landgate 2000</li> </ul>
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Scale 1:2744  
(Approximate when reproduced at Letter)

Geocentric Datum Australia 1994

Note: the data in this map have not been audited. This may result in geometric distortion or measurement inaccuracies.

Prepared by: sonyia  
Prepared for:  
Date: 15/05/2011 10:33:15 AM

Information derived from this map should be confirmed with the data custodian acknowledged by the agency acronym in the legend.

Department of Environment and Conservation  
Our environment, our future  
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\* Project Data: This data has not been visually audited. Please contact map author for details.

G SITES

