



Draft Environmental Protection (Swan Coastal Plain Wetlands) Policy and Regulations 2004



Environmental Protection Authority

July 2004

Environmental Protection Policies

An Environmental Protection Policy (EPP) is prepared under Part III of the *Environmental Protection Act 1986* and has “the force of law as though it had been enacted as part of this Act”, on and from the day on which the policy is published in the *Western Australian Government Gazette*. The *Environmental Protection Act* is binding on the Crown. Accordingly, all government departments and agencies are required under law to comply with both the *Act* and EPPs prepared under the *Act*.

An EPP establishes:

- the boundaries of the area and the portion of the environment to which the policy applies; and
- the basis on which the environment in this area is to be protected, or pollution is to be prevented, controlled or abated.

In addition, an EPP may:

- identify and declare the beneficial uses of the environment to be protected under the policy;
- specify the environmental quality objectives to be achieved and maintained under the policy;
- set out the indicators, parameters or criteria to be used for measuring environmental quality in the policy area;
- make statements relating to any activity directed towards the protection of the environment, including the discharge of waste;
- create offences and penalty provisions; and
- establish a program for the achievement and maintenance of the environment quality objectives within the policy area and may specify, among other things, measures designed to:
 - i. minimise the possibility of pollution;
 - ii. protect the environment; and
 - iii. achieve and maintain the beneficial uses to be protected.

Note:

This document has no legal status. It is published to assist in understanding the requirements of the draft Policy and Regulations and the way in which it is intended to administer them.

Cover photos by Dr. Bob Hay: Top: Canning River by Riverton Bridge (Mar 04);
Middle: south end Lake Joondalup (Apr 04);
Bottom: Reserve beside Doyle Road, south of Busselton (Mar 04).

Foreword

The Environmental Protection Authority (EPA) is an independent statutory authority and is the key provider of independent environmental advice to the Minister for the Environment. The EPA's objectives are to protect the environment and to prevent, control and abate pollution.

An Environmental Protection Policy (EPP) is a tool to achieve environmental protection. The *Environmental Protection (Swan Coastal Plain Lakes) Policy 1992* has helped to protect the environmental values of lakes on the Plain to date. Since that Policy's review in 1999, the EPA has been involved in the development of an EPP to protect wetlands as well. Based on advice from the State Solicitor's Office, the previous revised draft Policy, released in 2000, was remitted to the EPA by the Minister for the Environment in late 2003.

The EPA has since that time developed a draft *Environmental Protection (Swan Coastal Plain Wetlands) Policy 2004* and is releasing this Policy for public inspection and review under section 26 of the *Environmental Protection Act 1986*. This EPP, prepared by Parliamentary Counsel, contains a Policy Order, Policy and Regulations.

An Explanatory Document has been prepared to assist you in your review of this EPP. A draft wetlands register has also been prepared to depict proposed wetlands for protection under this Policy. These may be viewed on the EPA's web site. Copies may be obtained from the EPA (see address below) or Department of Environment offices on the Swan Coastal Plain (tel: 9222 7000 or 9378 0300).

The EPA is concerned that over 80 per cent of the wetlands on the Plain have already been lost to land development pressures, which are ongoing. The Policy and its proposed wetlands register are designed to protect the environmental values of the most important Swan Coastal Plain wetlands, which constitute less than 15 per cent of the remaining wetlands, while continuing to protect the Swan Coastal Plain lakes.

The EPA encourages your comments on this Policy. Submissions are invited until 24 September 2004. These can be mailed to the EPA at: Floor 8, 141 St Georges Terrace, Perth 6000.



Walter Cox
CHAIRMAN
ENVIRONMENTAL PROTECTION AUTHORITY

19 July 2004

Environmental Protection (Swan Coastal Plain Wetlands) Policy Order 2004

Made by the Minister under section 31(d).

1. Citation

This order may be cited as the *Environmental Protection (Swan Coastal Plain Wetlands) Policy Order 2004*.

2. Approval of environmental protection policy

The *Environmental Protection (Swan Coastal Plain Wetlands) Policy 2003*, set out in Appendix 1 to this order, is approved.

3. Revocation

The approval for the *Environmental Protection (Swan Coastal Plain Lakes) Policy 1992* is revoked.

Minister for the Environment

Date:

Appendix 1
to the
Environmental Protection (Swan Coastal Plain
Wetlands) Policy Order 2004

Environmental Protection (Swan Coastal Plain
Wetlands) Policy 2004

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Appendix 1
to the
Environmental Protection (Swan Coastal Plain
Wetlands) Policy Order 2004

Environmental Protection Act 1986

Environmental Protection (Swan Coastal Plain
Wetlands) Policy 2004

Approved by the Minister under section 31(d) of the Act.

Part 1 — Preliminary

1. Citation

This policy may be cited as the *Environmental Protection (Swan Coastal Plain Wetlands) Policy 2004*.

2. Purposes of policy

- (1) This policy establishes the basis on which —
 - (a) the environmental values of certain wetlands of the Swan coastal plain are to be protected as an intrinsic part of the natural hydrology and the surface and groundwater system of the Swan coastal plain; and
 - (b) pollution of, and environmental harm to, those wetlands are to be prevented or controlled.
- (2) The environmental quality objectives of the policy are —

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- (a) the protection of the ecosystem health conditions of wetlands in the Swan coastal plain that meet the environmental quality criteria and of certain other wetlands, including the protection of the ecological structure, ecological function and ecological processes of those wetlands; and
 - (b) the protection of the beneficial uses of those wetlands, including the use of the wetlands for study, education, recreation, aesthetic enjoyment and the benefit of the public generally.
- (3) The policy, in conjunction with the regulations, establishes a programme for achieving the environmental quality objectives by —
 - (a) setting out criteria for measuring the environmental quality of the wetlands of the Swan coastal plain;
 - (b) providing for the identification and registration of wetlands that meet the environmental quality criteria and for the registration of certain other wetlands;
 - (c) providing for identifying and recording, for each registered wetland, the particular environmental values of the wetland that are to be protected; and
 - (d) providing a basis for the regulations to identify activities that cause, or have the potential to cause, material environmental harm or serious environmental harm to a registered wetland.

3. Relationship of policy with regulations

This policy is to be read with the *Environmental Protection (Swan Coastal Plain Wetlands) Regulations 2004* as if the policy and the regulations formed a single instrument.

4. Terms used in this policy

- (1) In this policy, unless the contrary intention appears —

“Environmental Protection Plan No. 2” means a hard copy of the map entitled “Environmental Protection Policy Map SCPSEP03”, being a hard copy kept in the Department and marked in red to show the boundary of the Swan coastal plain;

“environmental quality criteria” means the criteria set out in clause 6;

“owner”, in relation to a wetland, means the owner of the land in which part or all of the wetland is located;

“registered”, in relation to a wetland, means registered in the Swan coastal plain wetlands register in accordance with Part 3;

“regulations” means the *Environmental Protection (Swan Coastal Plain Wetlands) Regulations 2004*;

“Swan coastal plain” means the area described in clause 5(1);

“Swan coastal plain wetlands register” means the register established and maintained by the Authority under clause 11(1);

“wetland” means —

- (a) an area of seasonally, intermittently or permanently waterlogged or inundated land on the Swan coastal plain, whether natural or otherwise, and includes a lake, swamp, marsh, spring, dampland, tidal flat or estuary; or
 - (b) part of such an area.
- (2) A term used in this policy that is given a meaning in the Act or the regulations has that meaning in this policy unless the contrary intention appears in this policy.

5. The Swan coastal plain

- (1) The Swan coastal plain is the area that —

cl. 6

- (a) is shown outlined in red on Environmental Protection Plan No. 2, a representation of which is shown in Schedule 1 of this policy; and
 - (b) is bounded by the boundary defined in Schedule 1 of the regulations.
- (2) If there is any discrepancy between the boundary of the Swan coastal plain as defined in the regulations and the boundary of the area shown outlined in red on Environmental Protection Plan No. 2, the definition in the regulations prevails.

6. The environmental quality criteria

For the purposes of this policy, a wetland meets the environmental quality criteria if —

- (a) the wetland is recognised internationally, nationally or regionally as provided in regulation 5 of the regulations;
- (b) the wetland has at least one of the significant natural attributes referred to in regulation 6 of the regulations; or
- (c) the wetland has at least 2 of the environmental values listed in regulation 7 of the regulations.

7. Public and local government access to plans and records

- (1) The Department must make the information recorded on the Swan coastal plain wetlands register and a copy of Environmental Protection Plan No. 2 available for inspection by members of the public during normal office hours at each of the Department's head office in Perth and each of its regional offices situated on the Swan coastal plain.
- (2) The Department must also provide the information recorded on the Swan coastal plain wetlands register and a copy of Environmental Protection Plan No. 2 to each local government whose district is wholly or partly within the Swan coastal plain.

Part 2 — Registration of the wetlands that are to be protected

8. Registration of wetlands that meet environmental quality criteria

The Authority may, on its own initiative, register a wetland that is within the Swan coastal plain if the wetland meets one or more of the environmental quality criteria.

9. Registration of wetland at owner's request

- (1) The Authority may register a wetland within the Swan coastal plain on the application of the owner of the wetland.
- (2) An application must be in writing and must include the following —
 - (a) particulars of the name and address of the applicant;
 - (b) evidence of the ownership of the wetland;
 - (c) a map of the wetland of a sufficient scale to identify the wetland clearly at an individual lot level;
 - (d) an assessment, as far as practicable, of the extent to which the wetland meets the environmental quality criteria;
 - (e) any other relevant information that the Authority requires in the particular case.
- (3) If 2 or more persons own the wetland, the application must include —
 - (a) the name and address of each owner; and
 - (b) written evidence that the application is made by, or with the agreement of, each owner.

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10. Public consultation about registration of wetlands

Before the Authority registers a wetland under clause 8 or 9, or amends the registered particulars of a wetland that was registered under clause 8 or 9, or cancels the registration of a wetland that was registered under clause 8 or 9, the Authority must take reasonable steps to consult persons who could be materially affected by the registration, amendment or cancellation.

Part 3 — The Swan coastal plain wetlands register

11. The Swan coastal plain wetlands register

- (1) The Authority must establish and maintain a register called the “Swan coastal plain wetlands register”.
- (2) The register must be in the form of an electronic database.

12. Registration procedure

A wetland is registered by entering in the register —

- (a) the name (if any) and location of the wetland;
- (b) particulars of the boundary of the wetland area —
 - (i) as shown on a 1:2000 scale map that includes the wetland; and
 - (ii) as defined by straight lines connecting the Map Grid of Australia coordinates (Geocentric Datum of Australia 1994) for zone 50;
- (c) particulars of the ownership of the wetland;
- (d) a summary of the grounds on which the wetland is registered;
- (e) a summary of any additional information known to the Authority about the condition of the wetland; and
- (f) any other information that the Authority thinks relevant.

13. Amendment of particulars of registration

- (1) The Authority may amend the registered particulars of a wetland in accordance with this clause —
 - (a) to increase or decrease the registered area of the wetland;
 - (b) to reflect a change in the condition of the wetland; or
 - (c) to reflect a change in ownership of the wetland.

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- (2) The Authority may, on its own initiative, amend the registered particulars of a wetland that was registered under clause 8.
- (3) The Authority may, on the application of the owner of a wetland that was registered under clause 9, amend the registered particulars of the wetland.
- (4) An application under subclause (3) must be in writing and must include the following particulars —
 - (a) the name of the applicant;
 - (b) if the ownership of the wetland has changed since the wetland was registered — evidence of the ownership of the wetland;
 - (c) details of the proposed amendment and the reasons for it;
 - (d) any other relevant information that the Authority requires in the particular case.
- (5) If 2 or more persons own the wetland, the application must include —
 - (a) the name and address of each owner; and
 - (b) written evidence that the application is made by, or with the agreement of, each owner.
- (6) The Authority must not amend the registered particulars of a wetland that was registered under clause 9 unless the application for the amendment is made or agreed to in writing by each owner of the wetland.

14. Cancellation of registration

- (1) The Authority may cancel the registration of a wetland that was registered under clause 8 if the wetland does not meet or no longer meets at least one of the 3 environmental quality criteria.
- (2) The Authority may cancel the registration of a wetland that was registered under clause 9 if an application for the cancellation is made or agreed to in writing by each owner of the wetland.

- (3) An application must be in writing and must include the following —
- (a) particulars of the name and address of the applicant;
 - (b) evidence of the ownership of the wetland;
 - (c) a map of the wetland of a sufficient scale to identify the wetland clearly at an individual lot level;
 - (d) an assessment, as far as practicable, of the extent to which the wetland currently meets the environmental quality criteria;
 - (e) any other information that is likely to be required by the Registrar of Titles for the purposes of Part 4;
 - (f) any other relevant information that the Authority requires in a particular case.

Part 4 — Notices for purposes of land titles register

15. Notification of Registrar of Titles

- (1) When the Authority registers a wetland, amends the registered particulars of a wetland, or cancels the registration of a wetland, the Authority must give notice of the registration, amendment or cancellation to the Registrar of Titles.
- (2) A notice must be in a form approved by the Registrar of Titles under regulation 9 of the regulations.
- (3) A notice must include or be accompanied by the following —
 - (a) particulars of the location of the wetland;
 - (b) for a notice of registration or amendment, where the wetland forms only part of the land on the relevant certificate of title — a plan, in a form approved by the Registrar of Titles, showing the part of the land that constitutes the wetland;
 - (c) particulars of the ownership of the wetland;
 - (d) particulars of the date on which the wetland was registered under this policy, or on which particulars of the registration under this policy were amended, or the registration was cancelled under this policy, as the case requires; and
 - (e) any other information required by the Registrar in a particular case.

16. Notification of interested parties

When the Authority gives a notice to the Registrar of Titles under clause 15, the Authority must give a copy of the notice to each of the following persons or bodies —

- (a) each owner of the wetland referred to in the memorial or notice;
- (b) each mortgagee of the land in which the wetland is located;

- (c) the Western Australian Planning Commission;
- (d) the local government of each local government district in which any part of the wetland is located.

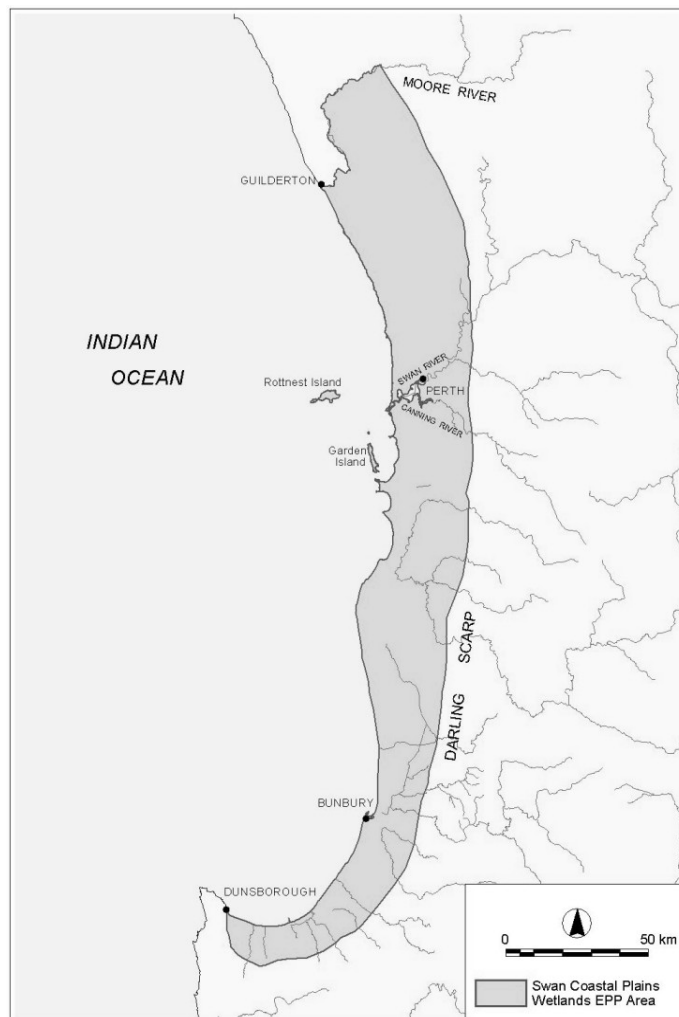
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Schedule 1 Swan coastal plain as shown on Environmental Protection Plan No. 2

**Schedule 1 — The Swan coastal plain as shown on
Environmental Protection Plan No. 2**

[cl. 5(1)(a)]

Environmental Protection Policy map SCPSEP03



Minister for the Environment

Environmental Protection (Swan Coastal Plain Wetlands) Regulations 2004

Made by the Governor in Executive Council.

1. Citation

These regulations may be cited as the *Environmental Protection (Swan Coastal Plain Wetlands) Regulations 2004*.

2. Relationship with Swan Coastal Plain Wetlands Policy

These regulations are to be read with the *Environmental Protection (Swan Coastal Plains Wetlands) Policy 2004* as if the regulations and the policy formed a single document.

3. Terms used in these regulations

- (1) In these regulations, unless the contrary intention appears —

“land titles register” means —

- (a) in relation to land registered under the *Transfer of Land Act 1893* — the register kept for the purposes of that Act; or
- (b) in relation to land registered under the *Registration of Deeds Act 1856* — the register kept for the purposes of that Act;

“Registrar of Titles” means —

- (a) in relation to land registered under the *Transfer of Land Act 1893* — the Registrar of Titles; or

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- (b) in relation to land registered under the *Registration of Deeds Act 1856* — the Registrar of Deeds and Transfers;

“policy” means the *Environmental Protection (Swan Coastal Plains Wetlands) Policy 2004*;

“registered wetland” means a wetland or part of a wetland that is registered in the Swan coastal plain wetlands register under Part 3 of the policy;

“vehicle” has the same definition as it has in the *Road Traffic Act 1974*;

“wetland” means a wetland in the Swan coastal plain.

- (2) If a term used in these regulations is defined in the policy, the term has that definition in these regulations unless the contrary intention appears in these regulations.

4. Boundary of the Swan coastal plain

For the purposes of these regulations and the policy, the boundary of the area of the Swan coastal plain is defined in Schedule 1.

5. International, national or regional recognition of wetlands

- (1) For the purposes of the policy, a wetland is recognised internationally if the wetland is an important feeding, breeding or resting site for birds listed under either or both of the following agreements —
 - (a) the China-Australia Migratory Bird Agreement (CAMBA), being the *Agreement between the Government of Australia and the Government of the People’s Republic of China for the Protection of Migratory Birds and Their Environment 1986*, Australian Treaty Series No. 22, Department of Foreign Affairs and Trade, AGPS, Canberra, 1988;
 - (b) the Japan-Australia Migratory Bird Agreement (JAMBA), being the *Agreement between the*

Government of Australia and the Government of Japan for the Protection of Migratory Birds in danger of extinction and Their Environment 1974, Australian Treaty Series No. 6, Department of Foreign Affairs, AGPS, Canberra, 1981.

- (2) For the purposes of the policy, a wetland is recognised internationally, nationally or regionally if it is recognised in one or more of the following publications —

- (a) *A Directory of Important Wetlands in Australia*, 2nd edition, Australian Nature Conservation Agency, Canberra, 1996;
- (b) *Conservation Reserves for Western Australia*, Vols 1-6, Environmental Protection Authority, Perth, 1976;
- (c) L. Pen, *A Systematic Overview of Environmental Values of the Wetlands, Rivers and Estuaries of the Busselton-Walpole Region*, Water Resource Allocation and Planning Series, report no. WRAP 7, Water and Rivers Commission, Perth, 1997;
- (d) Le Provost, Semeniuk and Chalmer, *The Environmental Significance of Wetlands in the Perth to Bunbury Region*, Western Australian Water Resources Council, WRC 4/87, Perth, 1987;
- (e) *Perth's Bush Forever*, Government of Western Australia, Perth, 2000;
- (f) the United Nations Educational, Scientific and Cultural Organisation *Convention on Wetlands of International Importance Especially as Waterfowl Habitat 1971*, Australian Treaty Series No. 48, Department of Foreign Affairs, AGPS, Canberra, 1975.

6. Significant natural attributes of wetlands

For the purposes of the policy, a wetland has a significant natural attribute if —

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- (a) it supports protected flora as defined in section 6(1) of the *Wildlife Conservation Act 1950*;
- (b) it supports fauna specified in a notice in operation under section 14(2)(ba) of the *Wildlife Conservation Act 1950* as fauna that is likely to become extinct, or is rare, or otherwise in need of special protection;
- (c) it supports vegetation in “good, very good, excellent or pristine condition” as described by B J Keighery in *Bushland Plant Survey. A Guide to Plant Community Survey for the Community*, Wildflower Society of WA (Inc), Nedlands, Western Australia, 1994;
- (d) it supports an ecological community listed as “threatened” in Category 1, 2, 3 or 4 as described by V J English and J Blyth in —
 - (i) “Identifying and Conserving Threatened Ecological Communities in the South West Botanical Province”, (Project N702) published in *Final Report to Environment Australia*, Department of Conservation and Land Management, Como, Western Australia, 1997; or
 - (ii) “Development and application of procedures to identify and conserve threatened ecological communities in the South West Botanical Province of Western Australia”, published in *Pacific Conservation Biology* No. 5, 1999, at pp. 124-38, Surrey, Beatty and Sons, New South Wales, 1999;
- (e) it is a wetland of a natural wetland type that is part of a natural wetland group of which fewer than 30% of wetlands of that type in that group are represented in the conservation estate on the Swan coastal plain, according to the wetland type and geomorphic classification system in Hill, AL, Semeniuk, CA, Semeniuk, V and Del Marco, A, *Wetlands of the Swan coastal plain*, Volume 1: *Wetland Mapping, Classification and*

Evaluation — Main Report and Volume 2: Wetland Mapping, Classification and Evaluation — Wetland Atlas, Water and Rivers Commission and Department of Environmental Protection, Perth, Western Australia, 1996;

- (f) it is a significant habitat or refuge for native or migratory fauna; or
- (g) it supports a concentration of a species of native or migratory fauna.

7. Other environmental values of wetlands

For the purposes of clause 6(c) of the policy, the following environmental values are listed —

- (a) the wetland is a significant site of pollen records, unusual sediments (as indicators of historical change), unusual geomorphology or hydrology for the scientific community;
- (b) the wetland is a public resource for water-based and land-based recreation;
- (c) the wetland is a significant archaeological or historical heritage site;
- (d) the wetland is an Aboriginal site as defined in section 4 of the *Aboriginal Heritage Act 1972*;
- (e) the wetland is a significant field study site for educational purposes.

8. Definition of environmental harm

- (1) The alteration of a registered wetland by any of the following activities is a prescribed alteration of the environment for the purposes of paragraph (d) of the definition of “environmental harm” in section 3A(2) of the Act —
 - (a) filling in the wetland with soil or any other material;
 - (b) dumping soil, waste or any other substance or thing in or on the wetland;

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- (c) carrying out mining operations as defined in section 8(1) of the *Mining Act 1978*, or carrying out any other excavation, on or in the wetland;
- (d) discharging water into, or taking water from, the wetland to an extent that results in environmental harm to the wetland;
- (e) taking groundwater from beneath the wetland;
- (f) removing, killing or destroying native vegetation in the wetland;
- (g) severing or ringbarking the trunks or stems of native vegetation in the wetland;
- (h) burning native vegetation in the wetland, or in any other way clearing native vegetation from the wetland;
- (i) directly or indirectly disposing of or discharging waste material from industrial premises into the wetland;
- (j) having or using a vehicle or a boat with a motor in the wetland;
- (k) bringing any fauna into the wetland except —
 - (i) fauna of a species indigenous to the wetland or its immediate surroundings;
 - (ii) fauna of a migratory species some of which migrate to or pass through the wetland or its immediate surroundings from time to time; or
 - (iii) flora of a species indigenous to the wetland or its immediate surroundings;
- (l) taking from the wetland —
 - (i) fauna of a species indigenous to the wetland or its immediate surroundings; or
 - (ii) fauna of a migratory species some of which migrate to or pass through the wetland or its immediate surroundings from time to time.

- (2) However, an alteration of a registered wetland by an activity referred to in subregulation (1) is not a prescribed alteration as mentioned in that subsection —
 - (a) if the activity is carried out in accordance with —
 - (i) a proposal that has been or is being implemented in accordance with Part IV Division 2 of the Act following a referral to the Authority under section 38 of the Act; or
 - (ii) an assessed scheme that has been or is being implemented under Part IV Division 4 of the Act following a referral to the Authority under a scheme Act;
 - or
 - (b) the activity constitutes clearing that is done as mentioned in Schedule 6 of the Act clause 10, 11 or 12.

9. Registration of notices in land titles register

- (1) The Registrar of Titles may —
 - (a) give approvals for the purposes of clause 15 of the policy; and
 - (b) require the Authority or the owner of a wetland to give to the Registrar any relevant information required for the purposes of registering a notice in the land titles register.
- (2) The Registrar of Titles, on receiving a notice under clause 15 of the policy in the approved form and any fee payable, must register the notice in the land titles register.
- (3) However, if the Registrar requires further information, the Registrar does not have to register a notice until the information is given.

Schedule 1 Boundary of the Swan coastal plain

Schedule 1 — Boundary of the Swan coastal plain

[r. 4]

1. Terms used in this Division

In this Division —

“**coordinate**” means a Map Grid of Australia coordinate (Geocentric Datum of Australia 1994) for zone 50;

“**Table**”, followed by a number, means the Table to this Division having that number.

2. Offshore islands and inland estuaries included

- (1) All islands off the coastline are taken to be within the boundary defined in clause 3.
- (2) All inland estuarine areas along the coastline are taken to be within the boundary defined in clause 3, except the Swan-Canning Estuary as specified in clause 3(4).

3. Boundary definition

- (1) The Swan coastal plain boundary begins at a point near Dunsborough on the first coordinate specified in Table 1, then generally follows the Darling Scarp to a point on the Moore River by extending along straight lines connecting the coordinates specified in Table 1, from the first coordinate to the last coordinate.

Table 1 — Dunsborough to Moore River coordinates

Point No.	Easting	Northing	Point No.	Easting	Northing
1	324412.0683	6279670.2156	46	409065.6776	6421551.7692
2	323741.9000	6276159.8393	47	407830.9412	6424374.2796
3	323971.1561	6273867.2788	48	409771.2163	6431606.3017
4	324506.0869	6271230.8341	49	410300.3556	6437250.8389
5	325809.2379	6267387.0408	50	409947.6749	6445717.3709
6	328102.3117	6264917.5073	51	408536.5461	6455771.4292
7	329689.8094	6263858.9846	52	408712.9330	6461239.4519
8	335863.4597	6260860.4712	53	409947.6724	6471646.4925
9	337803.7574	6261213.4575	54	410476.8566	6474821.4832

Boundary of the Swan coastal plain

Schedule 1

Point No.	Easting	Northing	Point No.	Easting	Northing
10	341684.3425	6262800.9590	55	410124.0831	6476761.9944
11	345035.7757	6263329.9770	56	409771.3098	6478878.5187
12	352267.8153	6263682.9414	57	409947.7161	6480819.0520
13	353855.3264	6264564.4438	58	410124.0870	6482583.0606
14	358088.7092	6265975.9761	59	409771.3376	6484346.5617
15	362498.4212	6268974.5330	60	409771.3383	6486110.5779
16	364085.8772	6270562.0779	61	409594.9595	6487345.5823
17	369201.2132	6272855.0686	62	409418.5618	6488933.0880
18	371494.3272	6274971.5580	63	409594.9749	6490167.5950
19	376609.6742	6281145.5870	64	409594.9683	6491755.1066
20	382959.7608	6289083.1428	65	409594.9574	6492460.6130
21	386840.2793	6294727.5444	66	409594.9550	6493166.1186
22	389662.5740	6303017.5950	67	409418.5445	6493695.6237
23	390897.3419	6310249.6814	68	409418.5465	6494401.1295
24	392308.4702	6318010.7291	69	409594.9571	6495106.6339
25	394601.3708	6324007.9040	70	409594.9593	6495635.6367
26	395130.7187	6328594.2558	71	409594.9632	6496341.1389
27	396365.4574	6333003.8082	72	409418.5658	6497399.6470
28	397600.2178	6337237.3519	73	409065.7924	6498458.1588
29	398482.1861	6344292.8587	74	408889.4116	6499340.1606
30	399187.8311	6349760.8565	75	408889.4203	6500751.1595
31	399540.5724	6356110.9328	76	408536.6476	6502691.1692
32	400422.5492	6359285.9235	77	409065.8083	6503749.6728
33	400775.3316	6362990.4540	78	407654.7284	6509729.2253
34	401304.4905	6368281.9951	79	407654.7307	6513962.7531
35	401304.4984	6371633.5014	80	406949.1557	6518196.2839
36	400951.7078	6374808.5268	81	404126.9107	6524546.3199
37	401128.1292	6377983.5443	82	399187.9542	6535834.9010
38	401304.4887	6380805.5614	83	394249.0342	6543596.4540
39	401128.1111	6381511.5664	84	390721.2553	6552768.4989
40	403597.5251	6387155.5637	85	387193.4491	6558413.0247
41	406772.5461	6395622.5980	86	382254.5233	6565468.6064
42	408183.7012	6403560.1538	87	379917.0616	6569339.5409

Schedule 1 **Boundary of the Swan coastal plain**

Point No.	Easting	Northing	Point No.	Easting	Northing
43	408889.2631	6409204.7124	88	378726.7140	6571130.6202
44	408889.2741	6415554.7156	89	378373.9316	6571660.1300
45	408712.9018	6418906.2642	90	378280.0393	6571941.7602

- (2) The boundary then generally follows the Moore River to the coastline at a point near Guilderton by extending along straight lines connecting the coordinates specified in Table 2, from the first coordinate to the last coordinate.

Table 2 — Moore River to Guilderton coordinates

Point No.	Easting	Northing	Point No.	Easting	Northing
91	378282.7303	6571947.0629	257	359828.1103	6551590.0404
92	378033.6270	6572020.9132	258	359941.5889	6551516.1601
93	377796.1049	6571994.9023	259	360130.0435	6551467.6645
94	377582.7960	6572105.5154	260	360319.2030	6551293.8967
95	377332.7298	6572090.4348	261	360370.0894	6551194.7920
96	377219.3105	6572152.3104	262	360383.1867	6551069.6874
97	377045.1243	6572100.4100	263	360236.9292	6550668.6323
98	376682.7324	6572135.0055	264	360255.6511	6550335.1747
99	376432.5753	6572045.6303	265	360266.9340	6550131.3313
100	376334.0449	6571894.8294	266	360215.9717	6550020.8980
101	376348.3576	6571732.0402	267	360169.4815	6549932.6970
102	376675.1537	6571472.0089	268	360119.6215	6549811.1912
103	376701.8620	6571310.4718	269	359872.9166	6549439.8369
104	376291.4309	6571044.0788	270	359549.4738	6549249.2733
105	376131.1220	6570705.2106	271	359413.9398	6549049.0141
106	375994.7870	6570603.8488	272	359441.9897	6548661.3560
107	375946.3698	6570415.9382	273	359382.2642	6548423.3042
108	375959.7199	6570254.2462	274	359422.7024	6548035.8113
109	375774.2538	6570027.0405	275	359599.9171	6547825.3126
110	375649.1611	6570026.6834	276	359676.6266	6547575.7771
111	375586.9556	6570038.1481	277	359817.1711	6547327.0917
112	375411.0410	6570136.9617	278	359867.7717	6547176.9872
113	375335.4541	6570149.3763	279	359895.9157	6546852.5230

Boundary of the Swan coastal plain

Schedule 1

Point No.	Easting	Northing	Point No.	Easting	Northing
114	375285.3735	6570185.3699	280	359959.6895	6546714.7888
115	375148.7530	6570109.4899	281	361157.2577	6545650.8246
116	375148.9723	6570009.7227	282	361529.0867	6545416.2560
117	375123.7490	6569799.9093	283	361611.6120	6545154.5900
118	375045.8710	6569601.6696	284	361726.2008	6544917.7357
119	374887.1695	6569536.6112	285	361839.4593	6544781.7508
120	374575.0660	6569524.0566	286	362077.6530	6544708.3805
121	374303.9609	6569597.3376	287	362178.5005	6544646.5094
122	374252.7798	6569645.5075	288	362416.0648	6544402.3905
123	374219.5635	6569789.2261	289	362432.1950	6544261.8022
124	374011.9008	6569987.4107	290	362533.3882	6544100.1535
125	373835.5230	6570123.8843	291	362672.3595	6543963.3879
126	373722.6958	6570135.8446	292	362860.5238	6543852.7617
127	373623.1788	6570072.5802	293	362951.6082	6543515.8100
128	373448.3017	6570082.6896	294	363152.9807	6543267.8781
129	373360.7495	6570057.2565	295	363281.1816	6543005.6871
130	373210.6842	6570068.7668	296	363381.5290	6542907.2134
131	373098.6123	6570017.5414	297	363946.5580	6542673.9674
132	373074.2513	6569978.4503	298	364085.1626	6542562.6789
133	372954.4649	6569774.1493	299	364174.4295	6542288.8880
134	372705.9482	6569554.9998	300	364276.5304	6542127.2360
135	372306.6792	6569564.6119	301	364426.8607	6542065.9843
136	372082.1007	6569499.8260	302	364664.0022	6542067.9335
137	371995.1580	6569424.5030	303	364865.6145	6541944.1433
138	371796.7175	6569172.6781	304	365015.4542	6541920.5711
139	371699.1918	6568946.4589	305	365204.8369	6541710.1430
140	371776.5283	6568710.1602	306	365430.0728	6541674.2287
141	371764.6773	6568584.7484	307	365481.0842	6541707.0329
142	371417.8817	6568206.9595	308	365605.6185	6541650.9776
143	371331.6134	6568156.0270	309	365668.3246	6541588.5871
144	371080.8745	6568203.9753	310	365706.8948	6541477.1073
145	370572.4040	6567698.9201	311	365708.6524	6541339.6579
146	370203.4671	6567107.9699	312	365634.8714	6541225.6323

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Schedule 1 **Boundary of the Swan coastal plain**

Point No.	Easting	Northing	Point No.	Easting	Northing
147	370016.4790	6567019.2087	313	365647.8867	6541101.6306
148	369928.6600	6567018.1311	314	365852.0397	6540627.5235
149	369377.2656	6567138.8363	315	365926.7167	6540522.0476
150	369063.2833	6567361.1132	316	365988.7737	6540435.2570
151	368912.6316	6567422.4404	317	366054.7231	6540341.8638
152	368500.3846	6567406.2479	318	366093.9357	6540179.3934
153	368061.9252	6567501.6807	319	366246.6085	6539856.5071
154	367887.2189	6567500.6131	320	366362.9456	6539469.9636
155	367700.0890	6567424.0034	321	366519.4293	6538771.2921
156	367212.8866	6567370.2413	322	366521.6645	6538520.7668
157	366974.7197	6567404.9470	323	366423.6124	6538220.1844
158	366801.7416	6567266.4172	324	366400.1400	6538044.7194
159	366714.8470	6567115.6642	325	366414.2659	6537907.4271
160	366703.8595	6567002.4490	326	366477.8915	6537770.7651
161	366755.2249	6566865.6288	327	366736.2603	6537517.9541
162	366730.4000	6566789.9320	328	366933.4200	6537211.1457
163	366409.1811	6566522.0405	329	367035.5812	6536887.6086
164	366289.5689	6566468.4276	330	367175.5110	6536663.2187
165	366195.4051	6566365.2475	331	367264.1872	6536576.7589
166	366160.6041	6566248.4048	332	367314.9440	6536477.6234
167	366098.7140	6566160.0432	333	367328.1052	6536340.3181
168	365861.5094	6566120.4587	334	367299.1751	6536294.4974
169	365625.5717	6565981.1104	335	367234.6671	6536201.6631
170	365288.9422	6565878.1692	336	367139.1276	6536153.8895
171	365152.7741	6565701.2767	337	366814.6571	6536143.1199
172	365141.6414	6565525.9749	338	366676.2762	6536095.9061
173	364461.6284	6564732.3979	339	366516.1269	6535964.1560
174	364425.0433	6564607.7649	340	366355.5763	6535714.8811
175	364452.4212	6564333.1793	341	366275.7030	6535484.3715
176	364403.6021	6564195.0861	342	366115.9903	6535245.0808
177	364266.9882	6564055.8673	343	365976.4013	6535144.6262
178	364217.6771	6564030.8454	344	365766.6750	6535095.3782
179	363529.5784	6564099.6010	345	365596.6074	6535145.3050

Boundary of the Swan coastal plain

Schedule 1

Point No.	Easting	Northing	Point No.	Easting	Northing
180	363144.2257	6563858.4904	346	365316.6203	6535304.6825
181	363083.0265	6563645.9524	347	364957.0374	6535435.3110
182	362934.8134	6563519.8686	348	364717.5705	6535625.1291
183	362812.1062	6563193.4523	349	364447.6070	6535964.2169
184	362725.7690	6563080.3618	350	364167.5656	6536124.6734
185	362551.3294	6562990.5163	351	363938.4233	6536323.4780
186	362429.2637	6562689.6012	352	363628.4687	6536513.4665
187	362243.5542	6562513.1307	353	363328.4996	6536593.8188
188	362106.1670	6562437.0630	354	363129.2786	6536613.3932
189	362078.5974	6562428.9433	355	362959.3939	6536573.4793
190	361935.9788	6562388.2813	356	362859.3612	6536433.5879
191	361744.8728	6562333.6802	357	362719.2664	6536154.5874
192	361422.4376	6562105.5184	358	362579.0052	6535888.8864
193	361235.4464	6562028.7890	359	362557.8344	6535761.1118
194	360746.7028	6562112.1667	360	362672.3122	6535524.2485
195	360533.3784	6562223.5463	361	362623.9701	6535436.0300
196	360513.2828	6562227.7160	362	362526.1833	6535343.8368
197	360409.9126	6562250.7427	363	362299.6797	6535195.6270
198	360370.6752	6562259.0940	364	362240.2135	6535085.0869
199	360156.8602	6562407.0450	365	362220.2922	6534935.1542
200	359895.1385	6562280.5237	366	362120.4172	6534785.2782
201	359697.0727	6562103.8425	367	361960.3135	6534655.6725
202	359549.0134	6561826.9346	368	361859.7873	6534555.6755
203	359366.6551	6561618.3042	369	361819.8887	6534405.4782
204	359246.6494	6561529.1252	370	361800.2385	6534235.5916
205	359015.9041	6561371.9504	371	361862.3085	6534003.5883
206	358942.0612	6561184.7133	372	361936.5603	6533930.2860
207	358957.6787	6560872.2831	373	362300.9516	6533795.3898
208	358848.6986	6560458.4119	374	362401.2260	6533696.9270
209	358851.4143	6560183.5032	375	362490.4528	6533497.4289
210	358655.5149	6559706.3837	376	362505.1224	6533322.4511
211	358506.6484	6559565.8107	377	362408.7269	6532908.7581
212	358346.5501	6559480.5175	378	362346.5841	6532858.0509

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Schedule 1 **Boundary of the Swan coastal plain**

Point No.	Easting	Northing	Point No.	Easting	Northing
213	358258.3565	6559440.5324	379	362209.2340	6532881.7438
214	358071.9831	6559251.7776	380	362109.5144	6532793.9543
215	357885.2438	6559161.6845	381	362021.9778	6532792.8011
216	357687.9430	6558935.0810	382	361985.2335	6532692.5358
217	357594.2038	6558669.9577	383	361861.1158	6532578.9224
218	357502.4912	6558537.8997	384	361789.9451	6532203.2496
219	357507.6519	6558438.1900	385	361716.4220	6532078.1065
220	357498.3558	6558349.3719	386	361741.2031	6532003.0436
221	357441.2500	6558268.7781	387	361880.4893	6531903.9927
222	357403.7896	6558146.3200	388	361805.6941	6531803.2242
223	357394.7641	6558037.5495	389	361833.4010	6531578.5280
224	357441.1177	6557925.0917	390	361759.2677	6531427.8771
225	357494.4906	6557787.2293	391	361836.9425	6531166.1456
226	357487.4238	6557533.2508	392	361644.4405	6530900.8445
227	357651.9197	6557360.3006	393	361623.6468	6530746.4627
228	357865.0185	6557261.1738	394	361603.2918	6530630.8905
229	358127.2458	6557338.9794	395	361481.8082	6530536.1533
230	358178.0150	6557252.0773	396	360948.3682	6530583.4025
231	358192.0046	6557062.6848	397	360758.8110	6530599.7291
232	358205.9493	6556876.6175	398	360642.5554	6530541.6381
233	358257.8913	6556702.1469	399	360568.5858	6530451.9575
234	358186.5104	6556264.3771	400	360569.0528	6530345.5296
235	358225.0562	6556164.0068	401	360474.0836	6530261.1117
236	358554.0341	6555742.6949	402	360363.6338	6530267.3988
237	358542.5260	6555605.0671	403	360294.7472	6530367.3698
238	358769.8568	6555294.3612	404	360268.4265	6530699.6253
239	358783.7655	6555181.4642	405	360147.2322	6530868.7443
240	358986.2898	6554870.4223	406	359914.6820	6530968.7417
241	359052.1550	6554508.7714	407	359793.4908	6530852.9232
242	359115.4621	6554409.8377	408	359761.6798	6530599.7151
243	359228.6497	6554360.3503	409	359540.0010	6530457.0459
244	359291.0746	6554398.8773	410	359117.9902	6530424.7628
245	359428.3862	6554399.5989	411	358944.1848	6530472.3122

Boundary of the Swan coastal plain

Schedule 1

Point No.	Easting	Northing	Point No.	Easting	Northing
246	359717.4277	6554177.2805	412	358923.2416	6530473.1385
247	359855.5607	6554115.9230	413	358674.7995	6530551.8290
248	360007.7487	6553929.4726	414	358390.7591	6530589.0102
249	360012.7685	6553838.6296	415	358168.6214	6530551.6315
250	360022.3373	6553692.4144	416	357951.3739	6530434.4878
251	359741.5203	6552939.2330	417	357941.9213	6530429.9246
252	359806.5263	6552639.6516	418	357720.8751	6530382.5726
253	359745.9241	6552464.7866	419	357556.8625	6530409.1671
254	359773.5891	6552176.9037	420	357242.9843	6530401.5626
255	359686.5893	6552051.5765	421	357154.5582	6530370.2953
256	359852.3580	6551702.3372			

- (3) The boundary then continues generally south, following the coastline to the first coordinate specified in Table 3.
- (4) The boundary then generally follows the Swan-Canning Estuary back to the coastline by extending along straight lines connecting the coordinates specified in Table 3, from the first coordinate to the last coordinate.

Table 3 — Swan-Canning Estuary coordinates

Point No.	Easting	Northing	Point No.	Easting	Northing
	Swan River			Canning River	
422	393749.2047	6462931.1418		396197.7002	6455947.6069
423	393698.9779	6462208.3702		396291.3314	6455976.7416

- (5) The boundary then continues generally south, following the coastline to the first coordinate specified in Table 1.

By Command of the Governor,

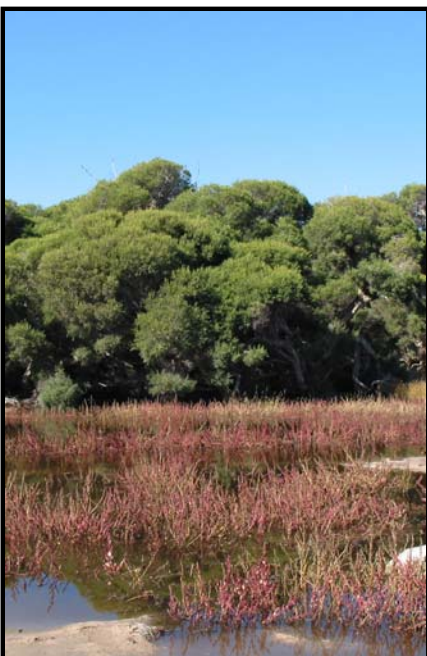
Clerk of the Executive Council.



Explanatory Document



Draft Environmental Protection (Swan Coastal Plain Wetlands) Policy and Regulations 2004



Environmental Protection Authority

July 2004

The process and your submission

The *Draft Environmental Protection (Swan Coastal Plain Wetlands) Policy 2004* is being released for public review and inspection for a 10 week period under section 26 of the *Environmental Protection Act 1986*.

Briefings will be held for key stakeholders. A revised draft EPP will be produced afterwards, for transmission to the Minister for the Environment, taking into account public comments (see the Statutory Process for an EPP, Figure 4).

Comments on the draft EPP should be directed by 24 September 2004 to:

The Chairman, Environmental Protection Authority, Floor 8, 141 St Georges Terrace, Perth 6000.

Note:

This document has no legal status. It is published to assist in understanding the requirements of the draft Policy and Regulations and the way in which it is intended to administer them.

Cover photos: Top: Folly Pool in Baldivis, east of Rockingham (Jan 03: Ruth Clark);
Middle: south end Herdsman Lake, Perth (Apr 04: Dr. Bob Hay);
Bottom: Star Swamp, Perth (Apr 04: Dr. Bob Hay)

This report is printed on recycled paper, oxygen bleached.

To better protect and conserve the remaining wetlands of high ecological value on the Swan Coastal Plain, the Environmental Protection Authority (EPA) has developed a *Draft Environmental Protection (Swan Coastal Plain Wetlands) Policy 2004* (EPP) under section 26 of the *Environmental Protection Act 1986* (the Act). This decision follows the statutory review of the *Environmental Protection (Swan Coastal Plain Lakes) Policy 1992* in 1999 and the Government's endorsement of the 1997 *State Wetlands Conservation Policy for Western Australia*.

The aims of this **Explanatory Document** are to explain:

- the draft EPP for the Swan Coastal Plain Wetlands;
- administrative procedures for this Policy and how this Policy could be implemented; and,
- the development of the wetlands register.

On 22 October, 2003, the Minister for the Environment remitted the revised draft *Environmental Protection (Swan Coastal Plain Wetlands) Policy* to the EPA under section 31(c) of the Act. This was done because proposed amendments to the policy are sufficiently different from the revised draft EPP of December 1999 that it is necessary for the EPP process to recommence at the point of public consultation. The EPA has redrafted the EPP and is releasing it under section 26 of the Act, together with an explanatory document and draft wetlands register, for a 10 week public comment period.

The Policy and its proposed implementation plan are designed to protect the environmental values of the most important Swan Coastal Plain wetlands. The boundary of the policy area is shown in Figure 1. This explanatory document has been written to provide some details on the protection of these wetlands.

The issues involved with the conservation of wetlands on the Swan Coastal Plain are complex – on scientific, stakeholder and community levels. They involve many interested and affected groups, complex ecosystems, ongoing scientific evaluation, and changing community attitudes. To achieve the best outcome for the environment and all stakeholders, the EPA encourages debate and comment on this draft Wetlands EPP.

Copies of the documents referred to are available on the web site of the EPA, at **www.epa.wa.gov.au**, with printed copies available at the Department of Environment's (DOE) main offices in Perth, and in its regional offices on the Swan Coastal Plain. The draft wetlands register, which identifies landholdings that could be affected, can be viewed at the EPA's web site. If you do not have access to the Internet, the draft register can also be accessed at DOE main offices, the Swan Catchment Centre in Midland, and at most local government offices and/or their libraries. The EPA recognises that there may still be adjustments needed in the database of this draft register, and invites public input so that any potential inaccuracies can be considered and corrected by the EPA as appropriate.

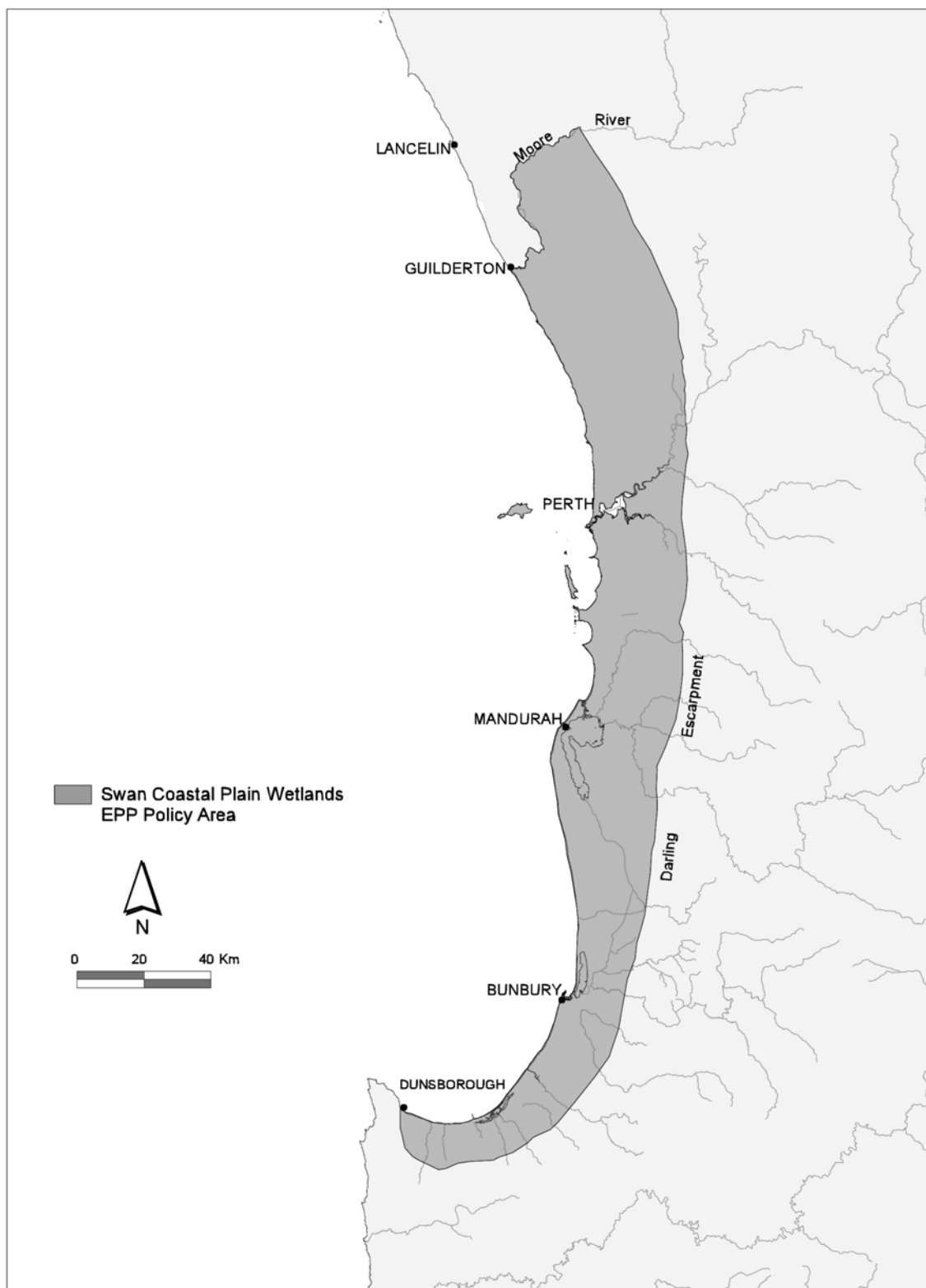


Figure 1. Swan Coastal Plain Wetlands EPP Policy Area.

The Background

Wetlands on the Swan Coastal Plain are coming under increasing pressure, mostly due to urban development and changes in rural land use. Since European settlement, it has been estimated that more than 80 per cent of the original wetlands on the Plain have been either lost or seriously degraded due to filling, clearing and other land use impacts (see Balla, 1996). The loss of wetlands is continuing, making it important to protect those wetlands that remain, especially those that are still in good condition. A recent decline in annual rainfall in the southwest has put further pressure on these wetlands.

The *Wetlands Conservation Policy for Western Australia* was released in 1997 and recognises the importance of conservation and wise management practices to retain and, at times, restore the environmental condition of the State's wetlands. Through this Policy, the State Government is committed to identifying, maintaining and managing wetlands for the long term benefit of the people of Western Australia. Its principal objective is:

To prevent the further loss or degradation of valuable wetlands and wetland types and promote wetland conservation, creation and restoration.

Under this objective is an action item to :

Provide for a statutory environmental protection framework under the Environmental Protection Act 1986 for the conservation of important wetlands on private and public lands throughout Western Australia, and assist the EPA in the development and review of statutory environmental protection policies.

and to

Promote, implement and monitor the effectiveness of wetland environmental protection policies and associated regulations.

The purpose of the draft Wetlands EPP in this regard, as set out in clause 2 of that EPP, is to protect wetlands by:

- protecting the environmental values of certain wetlands on the Swan Coastal Plain as an intrinsic part of the natural hydrology and the surface and groundwater system; and
- preventing and controlling the pollution of and environmental harm to those wetlands.

There is often concern expressed over the definition of a wetland, especially that the definition is too broad. Such concerns are acknowledged by the EPA. However, the following definition, based on the definition in the Act, is endorsed by the EPA:

An area of seasonally, intermittently or permanently waterlogged or inundated land on the Swan Coastal Plain, whether natural or otherwise, and includes a lake, swamp, marsh, spring, dampland, tidal flat or estuary.

Methodologies for identifying management objectives for wetlands on the Swan Coastal Plain were first published through EPA Bulletin 374 in 1990, which were then updated in Bulletin 686 in 1993. The methodologies in these Bulletins focused on wetlands with open water bodies, such as lakes. In 1996, the Water and Rivers Commission, in conjunction with the Department of Environmental Protection, published the first comprehensive mapping of wetlands on the Plain (Balla, 1996). Wetlands were mapped, classified according to wetland type and evaluated into one of three management categories, namely *Conservation*, *Resource Enhancement* or *Multiple Use* (Hill *et al.*, Volume 2b: in Balla, 1996). Recent work undertaken by the DOE has updated this database. Note that the majority of wetlands on the Plain are evaluated as Multiple Use (80%), 5% as Resource Enhancement and 15% as Conservation, with this last group also known as Conservation Category Wetlands (see Appendix 1).

Prior to the development of the draft Wetlands EPP, *Bush Forever* has helped to protect some, but not all, of the Conservation Category Wetlands in the Perth metropolitan area. However, because Bush Forever addresses remnant vegetation and not specifically wetlands, many Conservation Category Wetlands have been left unprotected in both the metropolitan area and beyond it on the coastal plain. The Conservation Category Wetlands that are proposed to be registered constitute a small proportion of the total land area on the Swan Coastal Plain.

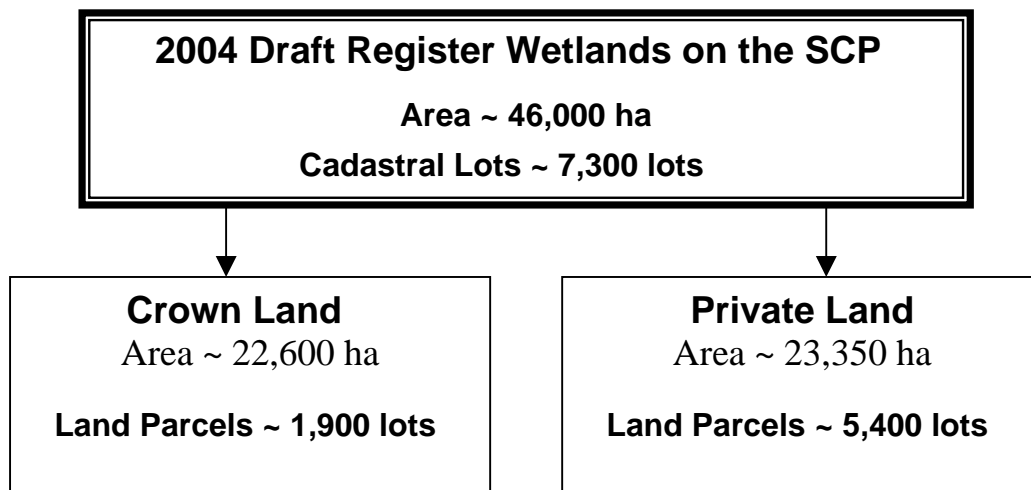
The EPA is proposing that all wetlands of high ecological value on the Swan Coastal Plain, including those that occur along watercourses (but not the watercourses themselves), be placed on a register of wetlands and protected through an EPP. This covers wetlands that occur on both private and Crown lands. Also, under proposed amendment procedures for that register, a private landowner could nominate a wetland (of any type) that he or she owns to be added to the register.

The proposed regulations for the draft Wetlands EPP defines a *registered wetland* as one that has been placed on the register. Initial areas considered by the EPA to be placed on this register were:

1. the Swan Coastal Plains Lakes, already protected under the 1992 EPP; and,
2. all Conservation Category Wetlands on the Swan Coastal Plain, but not watercourses *per se*, identified by the Department of Environment as at 6 February 2004.

The total area and number of wetlands for the proposed register is shown in Figure 2. The datasets for the 1992 Lakes EPP and Conservation Category Wetlands were first amalgamated and were then edited to improve their accuracy. The resultant area for the draft register is approximately 46,000 ha. Of this total, about half of the wetland area is in private land, and half in Crown land. There is also a proportion of this land that is already under some form of protection.

**Figure 2. Wetlands on the Swan Coastal Plain:
Breakdown of Tenure and zoning¹**



Note¹: these statistics are based on estimates at the time of printing

And so, the final figure for the draft register does not equal the number that would be arrived at by simply adding these two datasets. However, the figure constitutes a small but environmentally significant proportion of the Swan Coastal Plain. Despite the editing that has already been done, the EPA is aware that there still could be inaccuracies in the draft register and encourages any potential errors to be forwarded as part of public submissions on the draft EPP.

Wetlands which possess high ecological value will have statutory protection through the EPP, unless otherwise authorised, via the *environmental harm* and *unauthorised land clearing* provisions² contained in amendments to the *Environmental Protection Act 1986*. Environmental harm means an “alteration of the environment to the detriment or degradation of the environment or any environmental value”. Provisions on land clearing relate to protecting native vegetation against unauthorised removal, destruction, or damage. Any proposal to remove native vegetation would be assessed against various environmental principles, such as “vegetation should not be cleared if it is growing in, or in association with, an environment associated with a watercourse or wetland”. Proposed regulations under the Act for unauthorised land clearing will clarify these provisions.

In summary, the proposed changes to the 1999 revised draft Wetlands EPP aim to achieve the protection of Conservation Category Wetlands by changing the new draft Wetlands EPP to include the immediate registration of Conservation Category Wetlands, as well as retaining the Swan Coastal Plain Lakes (from the 1992 Lakes EPP).

Note ²: scheduled to come into effect in the second half of 2004

The draft Environmental Protection (Swan Coastal Plains Wetlands) Policy 2004

The EPP process to date:

- The *Environmental Protection (Swan Coastal Plain Lakes) Policy 1992* (the Lakes EPP) was gazetted in 1992;
- The *Environmental Protection (Swan Coastal Plain Lakes) Policy 1992* (the Lakes EPP) was reviewed in 1999 by the EPA;
- The *Review of the policy and a (new) Draft Environmental Protection (Swan Coastal Plain Wetlands) Policy 1999* was released for public comment by the EPA in November 1999;
- Following public comment, the EPA produced the *Revised Draft Environmental Protection (Swan Coastal Plain Wetlands) Policy 1999* for transmittal to the Minister for the Environment;
- The Minister released the revised draft and the EPA later released the *Environmental Protection (Swan Coastal Plain Wetlands) Policy 2000 – Administrative Procedures*. These documents were available for public comment for 3 months until December 2000;
- Proposed changes to the *Revised Draft Environmental Protection (Swan Coastal Plain Wetlands) Policy 2003* were considered to be such that the policy should be remitted by the Minister to the EPA for further public consultation. The Minister subsequently remitted the policy to the EPA on 22 October 2003; and,
- The (new) *Draft Environmental Protection (Swan Coastal Plain Wetlands) Policy 2004* is released for public comment by the EPA in July 2004.

Major Components of the Draft EPP

1. The Wetlands Register

The draft Wetlands EPP requires (in clause 11) for the EPA to establish and maintain the wetlands register following the gazettal of the EPP. The register would have within it all registered wetlands on the Swan Coastal Plain, which (shortly after gazettal) would consist of:

1. the Swan Coastal Plains Lakes, protected under the 1992 EPP; and,
2. all Conservation Category Wetlands on the Swan Coastal Plain (but not part of watercourses *per se*), identified by the DOE as at 6 February 2004.

Wetlands that are nominated by landowners, whether for private or Crown land (and subsequently approved by the EPA), would also be added to the register. The register thus shows the specific areas where the EPP's provisions would apply. The Lakes EPP 1992 would be revoked when the draft Wetlands EPP is gazetted.

The draft register is available on the EPA web site to assist landowners, stakeholders and other members of the public in seeing which areas are proposed for protection under the EPP. For legal clarity, polygons (with corresponding grid references) have been drawn around each wetland.

2. Amendments to the Register

An amendment process has been included in the draft Wetlands EPP to facilitate corrections to the register. Amendments are considered by the EPA when an error in the database has been identified and then verified by the DOE. The proposed process is detailed in the EPP and outlined in Figure 3.

In this process, potential amendments would be verified against the environmental quality criteria, which are listed in clause 6 of the EPP and detailed in the proposed regulations for this EPP (in clauses 5 through 7). These criteria are derived from those listed in the 1999 revised draft Wetlands EPP.

The wetland mapping database has been kept as up-to-date as possible. However, it is recognised that the maintenance of such a large database has inherent difficulties, and that a proportion of the mapping may be out of date. For example, recent land development approvals may not have been entered into the database since the date of aerial photographs (most of these are from early 2003). The EPA would welcome advice regarding potential inaccuracies so that these can be considered.

Prior to the EPP being gazetted, corrections may be made to the database, where warranted, in a formal process overseen by the EPA. This process will involve the re-evaluation and verification of wetlands in question against the environmental quality criteria, and will be administered by the DOE. Public input that identifies errors in the data base will be used to assist in correcting it.

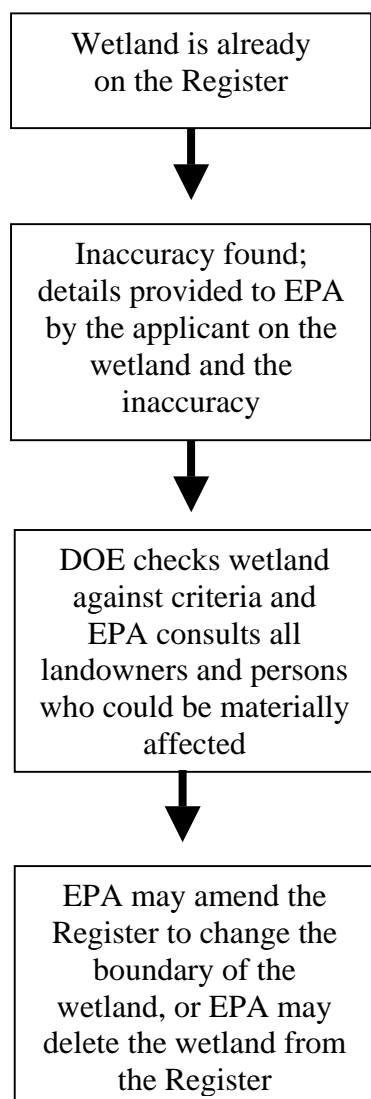
3. Private Landowner Involvement in Wetland Registrations

After the wetlands register is established, additional wetlands may be added to the register. Any new wetlands would need to meet the environmental quality criteria. Landowners, as well as others who could be materially affected by the registration, would have to be consulted by the EPA.

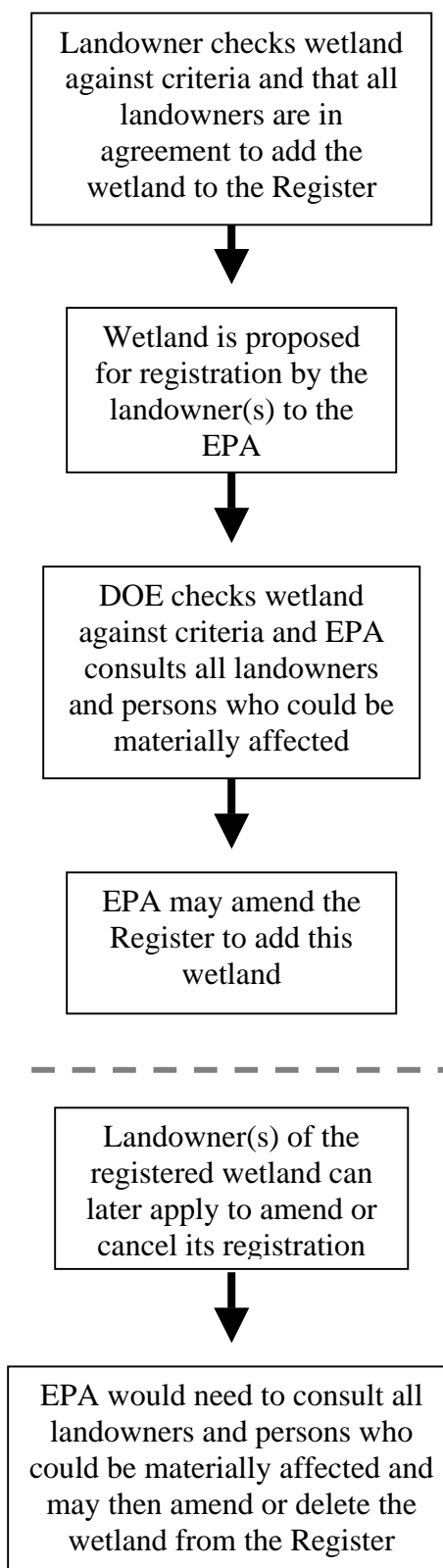
Through the amendment process (Figure 3), detailed in clause 13 of the draft EPP, landowners can request the EPA to review either the removal of wetlands from the register or to amend the boundaries of a registered wetland. This review will only be undertaken if it can be demonstrated to the EPA that the wetland(s) or portions

Figure 3. Process for Amending the Wetlands Register

Amendments to the Register



Voluntary Changes to the Register



thereof do not meet the environmental quality criteria listed in proposed regulations for the Wetlands EPP.

4. Voluntary Changes to the Register

Clause 9 in the draft EPP details the process for landowner(s) to voluntarily submit new wetlands to be added to the register through an assessment process overseen by the EPA (Figure 3).

The Program for Protecting Wetlands

1. Prohibited Activities

The primary threat to the conservation of wetlands is further loss through: filling in, excavation or mining, discharge or disposal of effluent, the construction or alteration of drainage systems or unauthorized clearing. These activities were prohibited in the 1999 revised draft EPP. Offences are listed in clause 8 of the proposed regulations for the 2004 draft EPP, with penalties derived from those listed for environmental harm in the Act (note that penalties for environmental harm are to be proclaimed once regulations for unauthorised land clearing have been finalised).

It is not the intention of the draft EPP to invoke environmental harm for ongoing land use practices in registered wetlands, such as grazing by livestock. However, the EPA would expect to see an improvement in the management of these wetlands over time through such activities as improved fencing.

2. The Role of Public Authorities

Relevant public authorities, both State and local government, must make decisions and take actions that are consistent with the protection of registered wetlands. Public authorities need to manage their own Acts so that activities are controlled that could have a negative impact on these registered wetlands (see also the Implementation Plan, below).

3. Schedules

The draft Wetlands EPP includes a *Schedule* which shows the boundaries of the EPP area (Schedule 1 of the proposed regulations). The Policy Area shown in Schedule 1 is the same area that was shown in the 1999 revised draft EPP and in Figure 1 of this Explanatory Document.

4. Mandatory Review of the EPP

Under statutory provisions in the Act, after the EPP is gazetted, it will be reviewed by the EPA every seven years. This review will give due consideration to changes over that period, especially in the wetland register, the environment on the Swan Coastal Plain, scientific understanding and stakeholder feedback. The review is published by the EPA as part of a statutory process under section 36 of the Act, together with a revised draft EPP, which is transmitted to the Minister.

Implementing the EPP

1. Approval processes of Government Agencies

The roles of government agencies in the conservation of wetlands are spelt out in the *Wetlands Conservation Policy for Western Australia* (1997). The present Government has endorsed this *Wetlands Conservation Policy*, but the names (and in some cases the activities) of principal agencies involved in wetlands conservation have changed over the past 7 years. The principal agency charged with implementing the wetlands EPP is the DOE. The use of the draft register in the EPA's environmental assessment process is detailed below.

2. Incentives Available to Private Landowners

A guide to Biodiversity Incentives has been prepared by the Government (Government of WA, 2004), as part of the Swan Coastal Plain Wetland Conservation Program, under the direction of the Minister for the Environment. This guide will assist landowners in protecting and managing wetlands and other biodiversity on the Swan Coastal Plain. Direct assistance to landowners is detailed through listings of current programs that are available via Government and other organizations. It will also be periodically updated.

3. Use of the Wetlands Register in the Environmental Assessment Process

The EPA currently assesses any development proposal that has the potential to impact a wetland (that is categorised as a Conservation Category Wetland) or a lake protected under the existing 1992 Lakes EPP. A checklist is available from the EPA to guide proponents on whether their proposal requires such a referral. Under the referral process, the potential impacts of a proposed development are assessed to determine the appropriate outcome for both wetland protection and development.

Recent referrals have been assisted, in part, through the EPA's Guidance Statement No. 10 on natural areas in the System 6 region. This document outlines how proposals that would result in the direct loss of wetlands, or have significant impacts on key conservation values, will likely undergo a formal environmental assessment at the Project Unlikely to be Environmentally Acceptable level, unless proposals can be redesigned to avoid direct losses or significant impacts with regard to wetlands.

Once the wetlands EPP is gazetted, any future proposal likely to impact on a protected wetland will be subject to approval by the EPA. The protected wetlands will be those that are listed on the wetlands register. There is a presumption against actions that would cause environmental harm to these wetlands.

And so, as part of the EPA's advice on appropriate land use near wetlands, developments should be planned and management undertaken to protect wetland values, as identified in the EPP. This may include having an appropriate buffer for that wetland, which can vary on a case by case basis due to the conditions of local hydrology and native vegetation.

4. Moving from a draft Register to a Register

The maps shown on the draft register are based on sets of maps that depict the 1992 Lakes EPP and the Conservation Category Wetlands . The Lakes EPP dataset has been reviewed to correct spatial inaccuracies and to combine these lakes with Conservation Category Wetlands where appropriate. The legal boundaries are determined from a set of map coordinates, so that these can be checked on the ground by surveyors, if necessary.

The EPA recognises that there still will be inaccuracies in the database (for the draft register), including for a small number of properties where there has been a degree of rural land development. Wetlands have been identified through reference to geomorphic categories (i.e. with particular reference to their landforms and soils). And so, in a superficial assessment, areas may not seem to be 'wetland' *per se* because of the dry conditions which have persisted over the past 25 years in southwestern WA. Nevertheless, these areas would normally still support wetland ecosystems, given average climatic conditions.

Once the EPP is gazetted, the draft register (as adjusted following the EPA's consideration of public submissions through the consultation process) will be approved as the Register by the EPA. Once this has been done, any further adjustment of wetland boundaries, deletions of wetlands or additions to the register will be administered by the EPA through the formal amendment process, as set out in the EPP. The EPA will also make the Register publicly available.

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Parliament of Western Australia (1992) *Environmental Protection (Swan Coastal Plain Lakes) Policy 1992*, gazetted on 18 December 1992.

Appendix 1

Management Category	General Description	Management Objectives
C – Conservation (incorporates EPA Bulletin 686 categories H and C)	Wetlands support a high level of ecological attributes and functions.	<p>Highest priority wetlands. Objective is preservation of wetland attributes and functions through various mechanisms including:</p> <ul style="list-style-type: none"> • reservation in national parks, crown reserves and State owned land, • protection under Environmental Protection Policies, and • wetland covenanting by landowners. <p>These are the most valuable wetlands and the EPA will oppose any activity that may lead to further loss or degradation. No development.</p>
R - Resource enhancement (incorporates EPA Bulletin 686 categories O and R)	Wetlands which may have been partially modified but still support substantial ecological attributes and functions.	<p>Priority wetlands. Ultimate objective is for management, restoration and protection towards improving their conservation value. These wetlands have the potential to be restored to conservation category. This can be achieved by restoring wetland structure, function and biodiversity. Protection is recommended through a number of mechanisms.</p>
M - Multiple use (aligned with EPA Bulletin 686 category M)	Wetlands with few important ecological attributes and functions remaining.	<p>Use, development and management should be considered in the context of ecologically sustainable development and best management practice catchment planning through landcare. Should be considered in strategic planning (e.g. drainage, town/land use planning).</p>

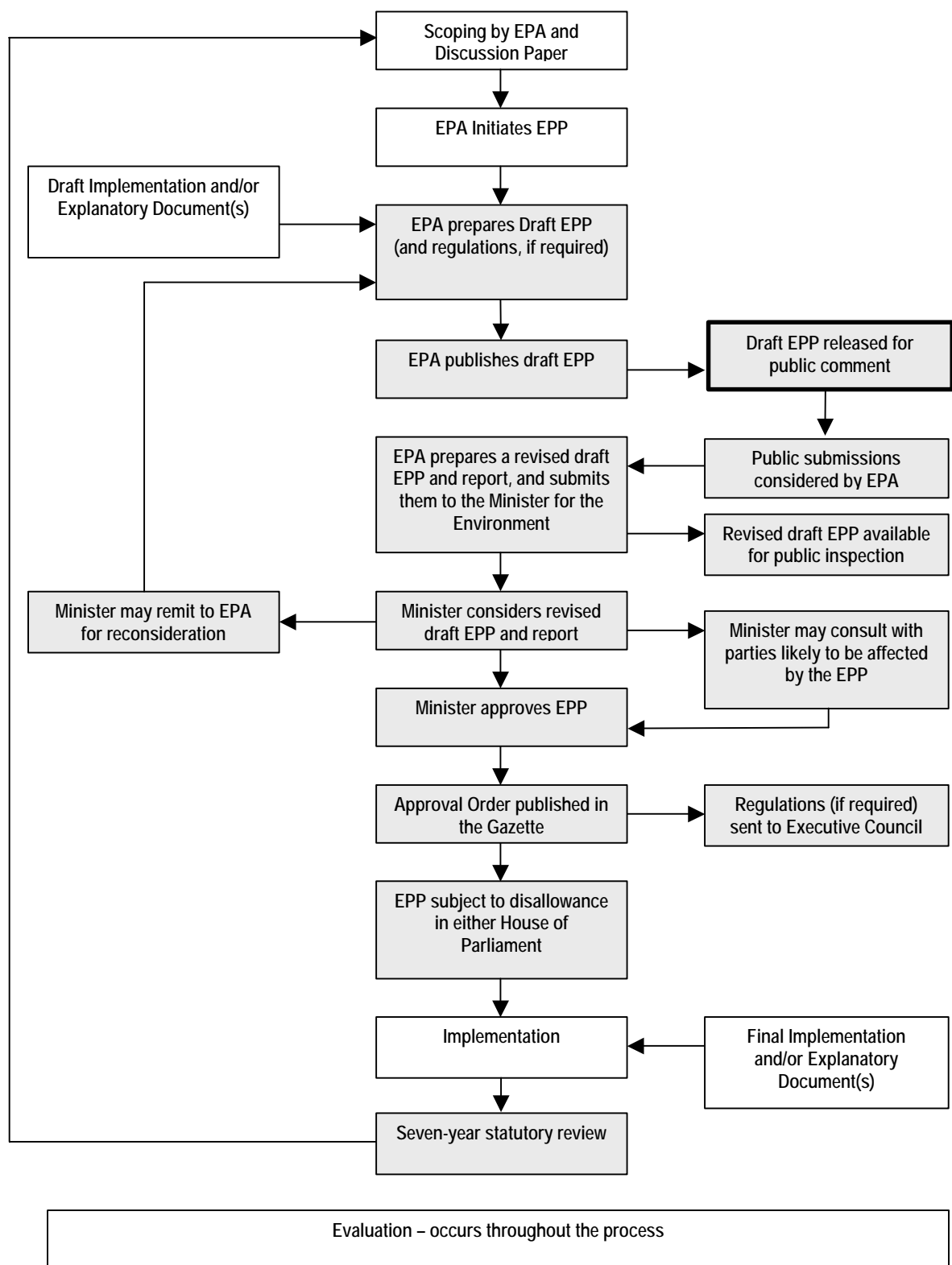


Figure 4

Flow diagram of the Environmental Protection Policy approval process under the *Environmental Protection Act 1986* showing the statutory (light grey boxes) and non-statutory (white boxes) stages. The highlighted (bold outline box) shows the status of the Swan Coastal Plain Wetlands Policy.

How to find out more

For more information, visit the web site of the Environmental Protection Authority, at www.epa.wa.gov.au, click on Environmental Protection Policies, and then on the draft Wetlands EPP. The draft wetlands EPP and its associated draft register can be viewed at this web site. A dedicated phone line (9222 8668) will also be manned during office hours for the first 2 weeks after release of the draft EPP, from 19 to 30 July.

Information will be provided throughout the Swan Coastal Plain during the release period of the draft EPP by way of posters in public libraries and Department of Environment regional offices. There will also be briefings for key stakeholders.

A list of the Department of Environment's offices on the Swan Coastal Plain is provided below. These offices will have copies of the draft EPP and explanatory document. You can also view the draft register on computers at Perth headquarters (at library offices) and the Swan Catchment Centre in Midland.

Perth Headquarters – for documents and computer access (in libraries)

Westralia Square: Level 8, 141 St Georges Terrace, Perth 6000 (9222 7000)
Hyatt Centre: Level 2, 3 Plain Street, East Perth 6004 (9278 0300)

Swan Goldfields Agricultural Region

Perth: 7 Ellam Street, Victoria Park, 6100 (6250 8000) – **for documents**
Midland: Swan Catchment Centre, 80 Great Northern Highway, Middle Swan (9374 3333) – **for documents and computer access**

Kwinana Peel Region – for documents

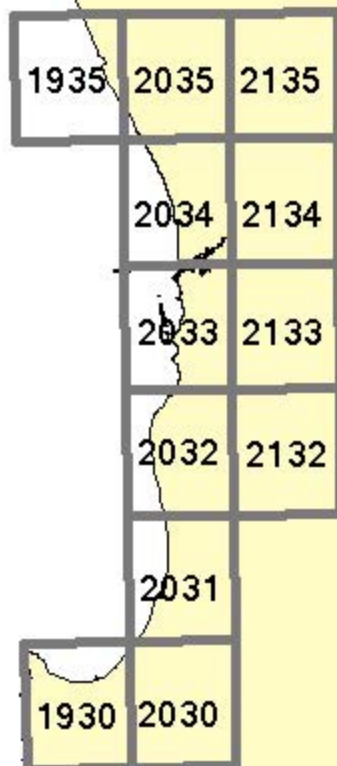
Kwinana: Suite 4, 165 Gilmore Avenue, Kwinana (9411 1777)
Mandurah: Sholl House, Unit 8, 21 Sholl Street, Mandurah (9550 4222)
Rockingham: Shop 1/15 Railway Terrace, Rockingham Beach (9591 3837)

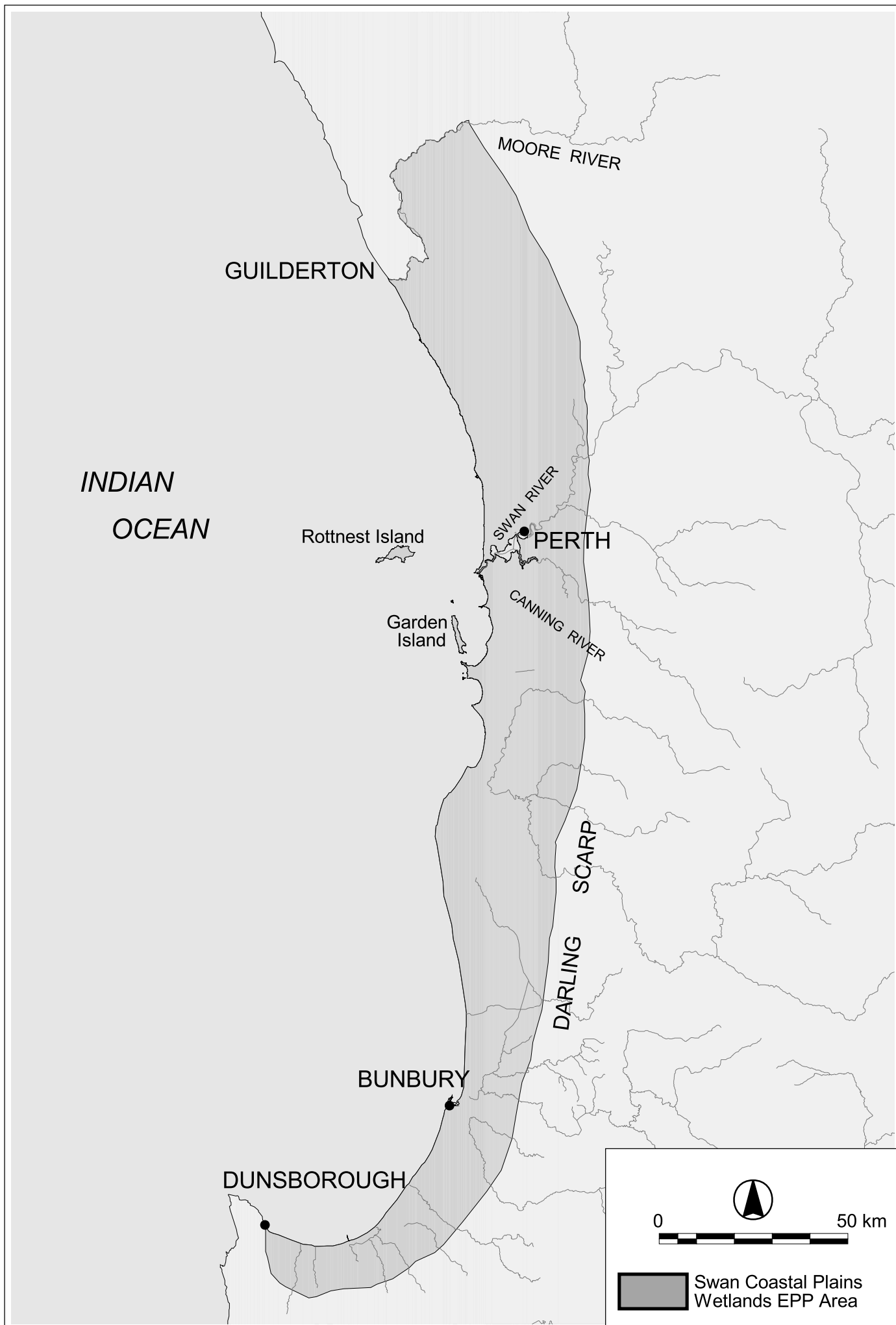
Southwest Region – for documents

Bunbury: 35-39 McComb Road, Halifax 6231 (9726 4111)
Busselton: Unit 2, Palm Court Arcade, 62 Kent Street, Busselton 6280 (9754 4331)

For more detailed queries, please contact Dr. Bob Hay during office hours in the EPP Section, EPA Service Unit, Department of Environment, 141 St Georges Terrace, Perth 6000 (9222 8635).

Location Map

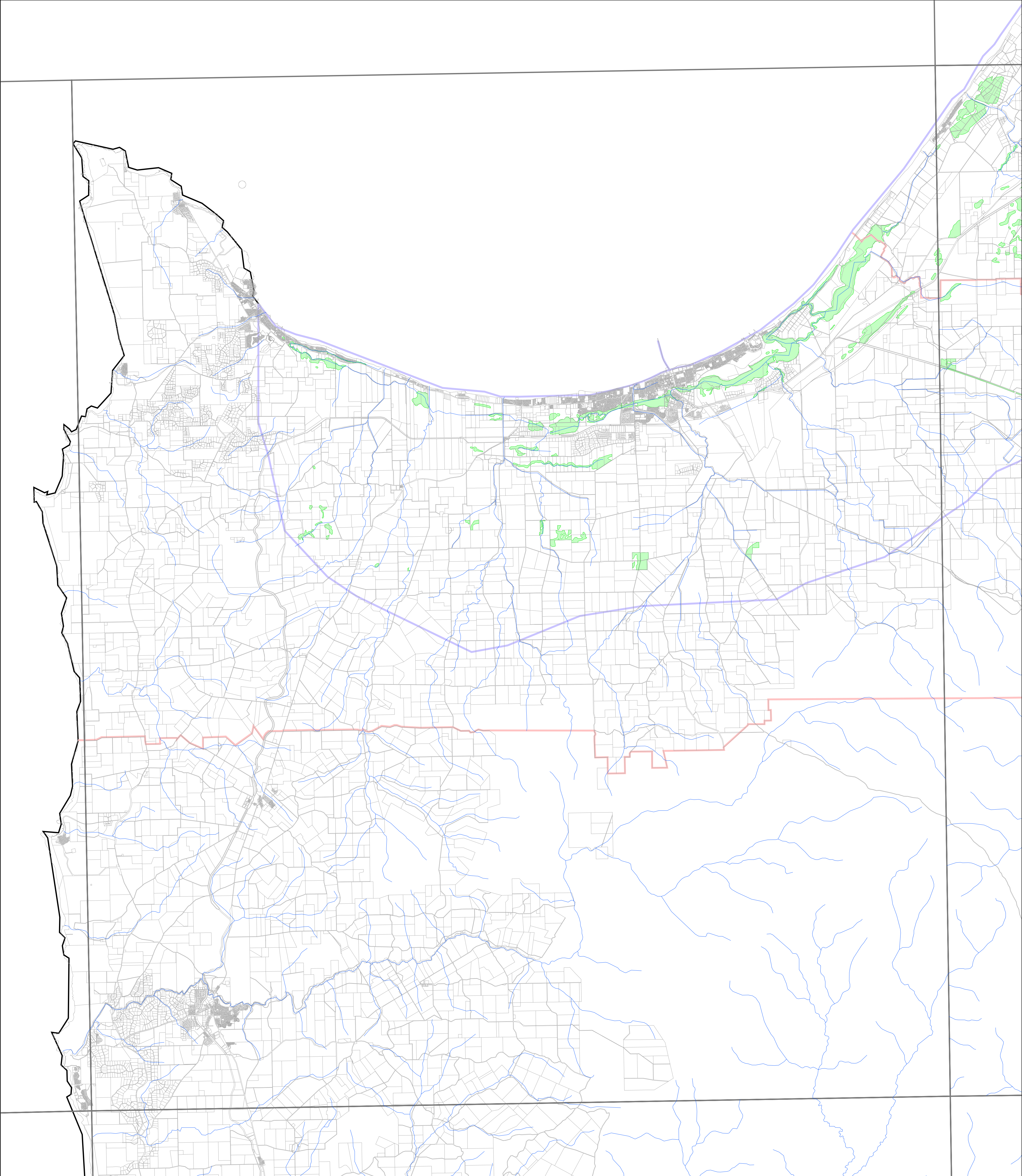




Environmental Protection Authority

Draft Environmental Protection (Swan Coastal Plain Wetlands) Policy 2004

Map Sheet 1930



History of the Wetlands EPP

In 1999 a statutory review of the Environmental Protection (Swan Coastal Plain Lakes) Policy 1992 was required under Part III of the Environmental Protection Act 1986. As part of this statutory process a Draft Environmental Protection (Swan Coastal Plain Wetlands) Policy 1999 was released for public comment. Following consideration of comments, a Revised Draft Environmental Protection (Swan Coastal Plain Wetlands) Policy 1999 was then prepared by the EPA and transmitted to the Minister for the Environment for consideration.

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View the draft EPP Wetlands 2004 at: www.epa.wa.gov.au

About the Data

This map represents the spatial definition of the draft 2004 EPP Wetlands as at April 2004. The boundaries illustrated on this map are derived from aerial photography guided by previous scientific and EPP Lakes definitions. The intention of this map is to show the areas proposed for legal protection under the revised EPP in relation to cadastral boundaries.

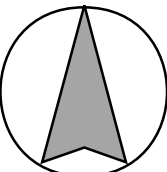
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 - . unsealed roads, fence lines and utility easements are not classed as development affecting wetlands
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- 3) Keep 1992 existing EPP boundaries if acceptable
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The legal boundary of any protected wetland is defined by the co-ordinates found within the 2004 Wetlands EPP register. This map is a representation of those legal boundaries.

Legend

- Draft EPP Wetlands
- Draft EPP Wetlands Policy Boundary
- Cadastral Boundaries
- Local Government Boundaries
- Drainage Lines
- Map Sheet 1:100,000



0 2 4 6 8 10 km

Projection: Map Grid of Australia Zone 50
Datum: Geocentric Datum of Australia, 1994

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Map Produced: 07/2004

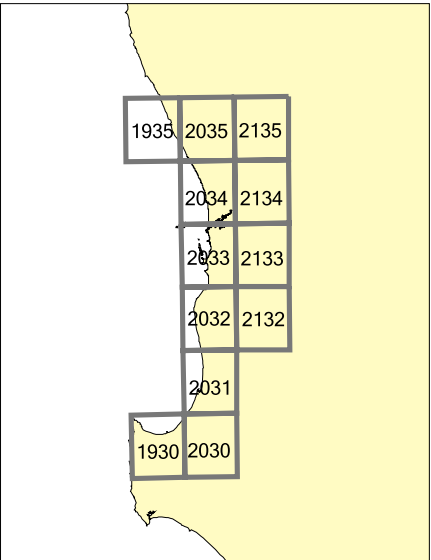
Data Sources

Draft EPP Wetlands - EPA - 07/2004
Draft EPP Wetlands Policy Boundary - EPA - 09/2003
Cadastre - DOLA - 09/2003
Local Government Boundaries - DOLA - 06/1990
Drainage Lines - AUSLIG - 06/1995



www.epa.wa.gov.au

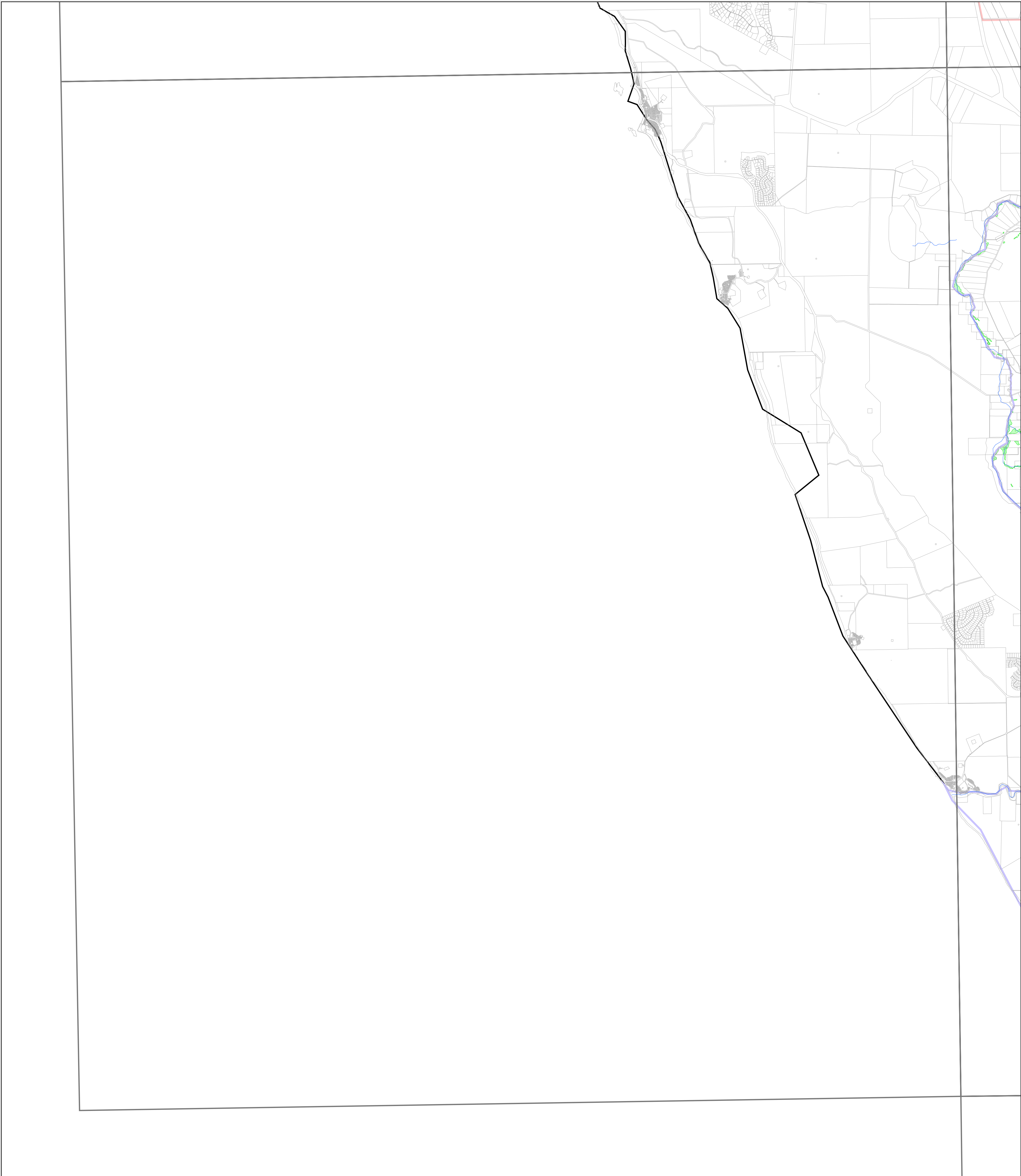
Location Map



Environmental Protection Authority

Draft Environmental Protection (Swan Coastal Plain Wetlands) Policy 2004

Map Sheet 1935



History of the Wetlands EPP

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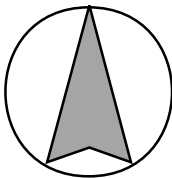
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Projection: Map Grid of Australia Zone 50
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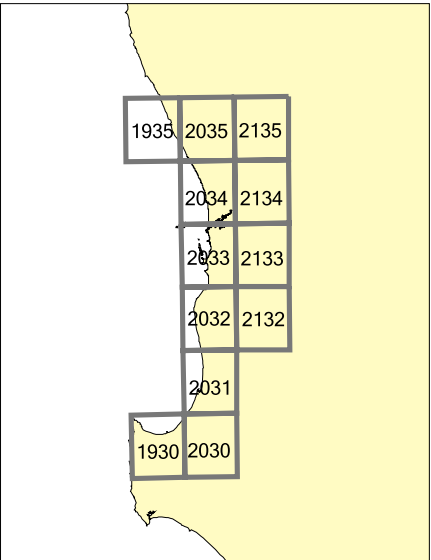
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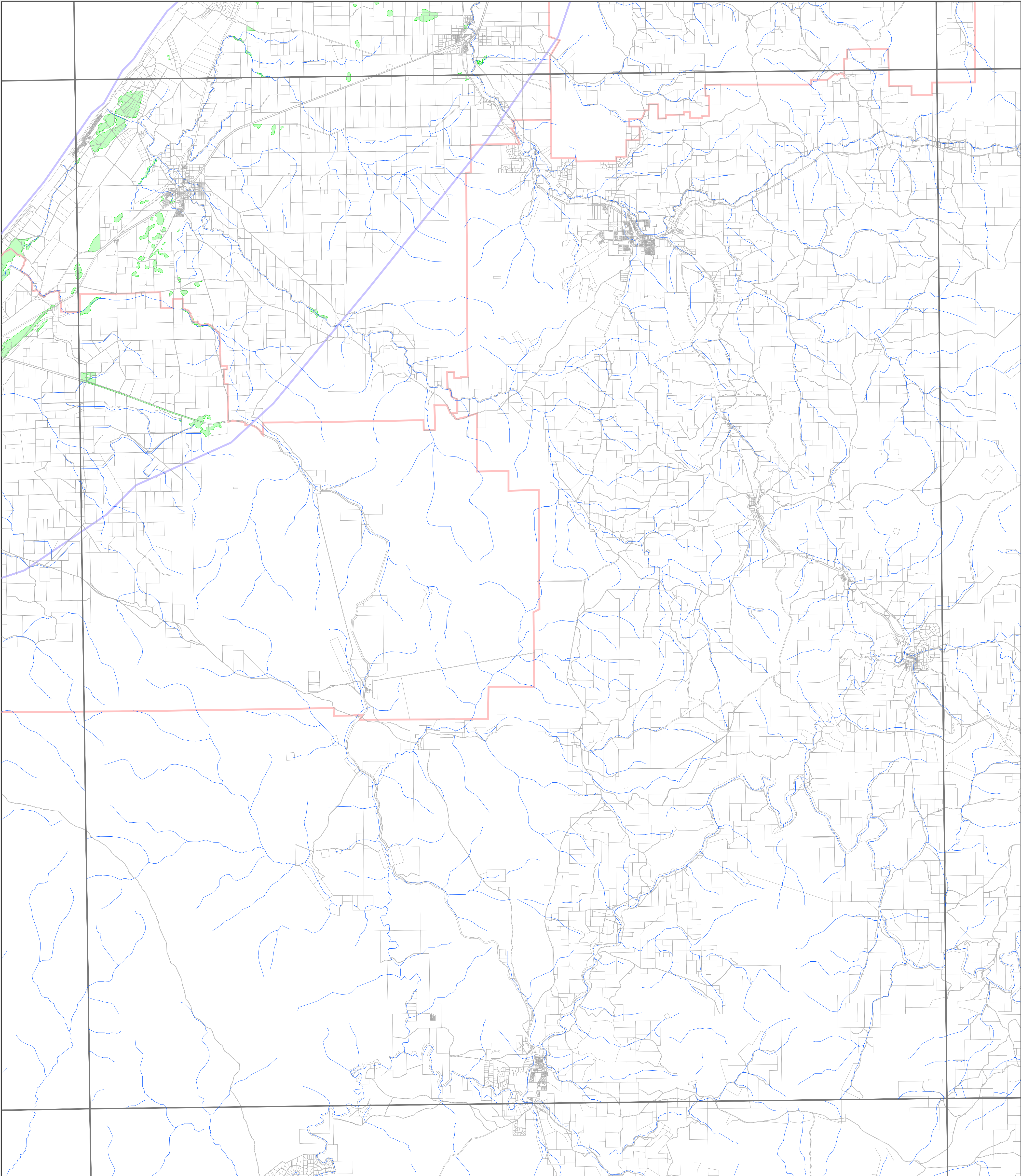
Location Map



Environmental Protection Authority

Draft Environmental Protection (Swan Coastal Plain Wetlands) Policy 2004

Map Sheet 2030



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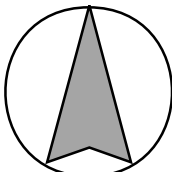
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Legend

- Draft EPP Wetlands
- Draft EPP Wetlands Policy Boundary
- Cadastral Boundaries
- Local Government Boundaries
- Drainage Lines
- Map Sheet 1:100,000

Data Sources

Draft EPP Wetlands - EPA - 07/2004
Draft EPP Wetlands Policy Boundary - EPA - 09/2003
Cadastre - DOLA - 09/2003
Local Government Boundaries - DOLA - 06/1990
Drainage Lines - AUSLIG - 06/1995



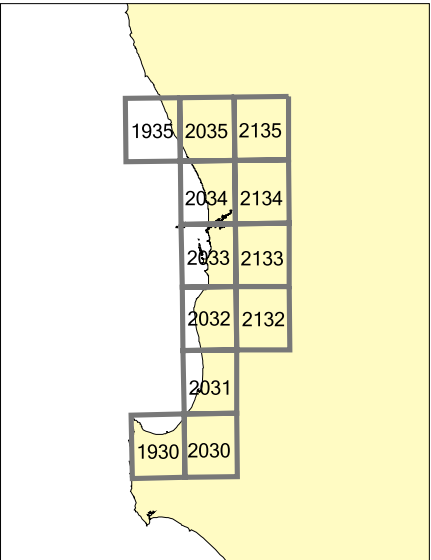
0 2 4 6 8 10 km

Projection: Map Grid of Australia Zone 50
Datum: Geocentric Datum of Australia, 1994

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Map Produced: 07/2004

Location Map

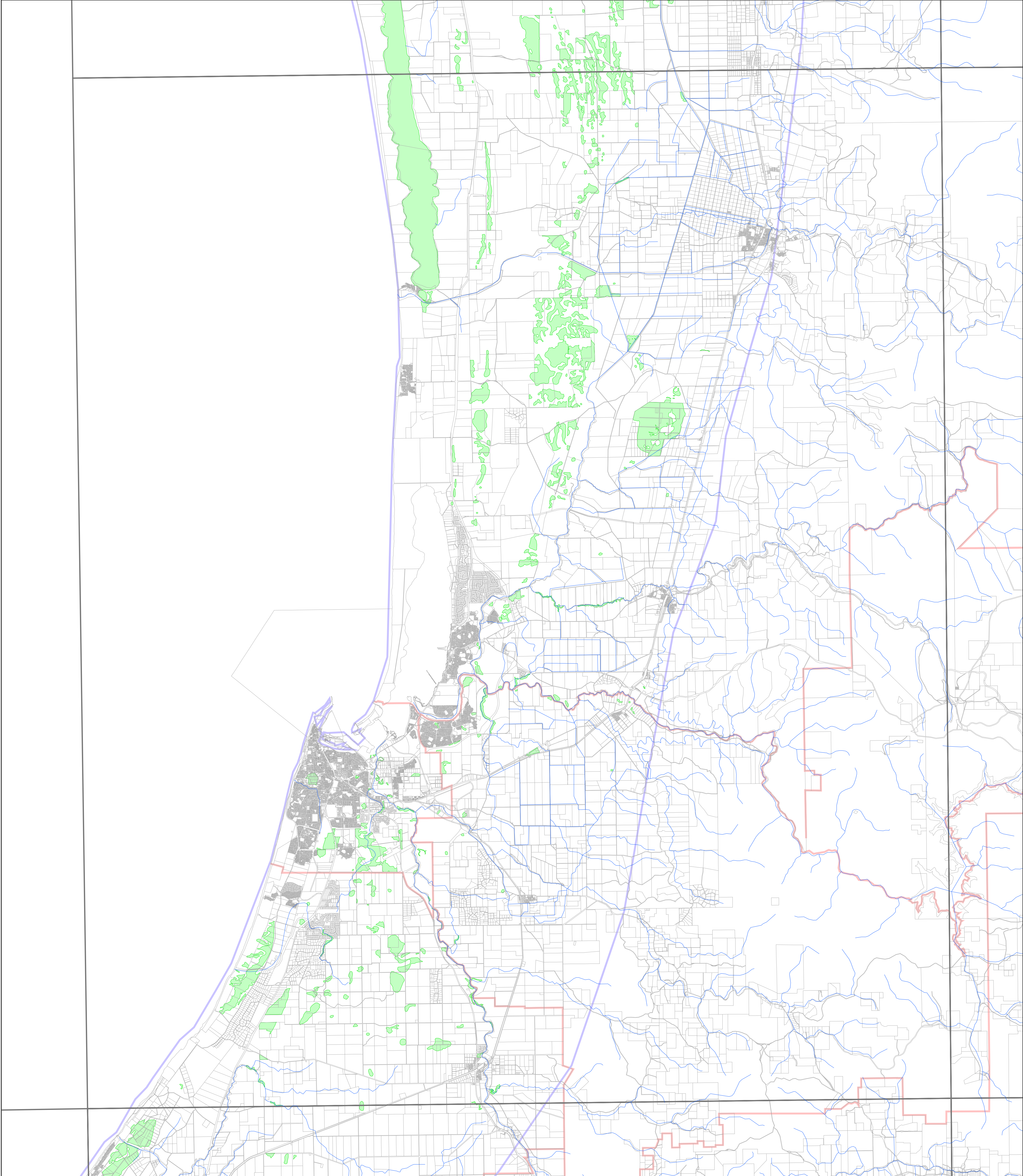


www.epa.wa.gov.au

Environmental Protection Authority

Draft Environmental Protection (Swan Coastal Plain Wetlands) Policy 2004

Map Sheet 2031



History of the Wetlands EPP

In 1999 a statutory review of the Environmental Protection (Swan Coastal Plain Lakes) Policy 1992 was required under Part III of the Environmental Protection Act 1986. As part of this statutory process a Draft Environmental Protection (Swan Coastal Plain Wetlands) Policy 1999 was released for public comment. Following consideration of comments, a Revised Draft Environmental Protection (Swan Coastal Plain Wetlands) Policy 1999 was then prepared by the EPA and transmitted to the Minister for the Environment for consideration.

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View the draft EPP Wetlands 2004 at: www.epa.wa.gov.au

About the Data

This map represents the spatial definition of the draft 2004 EPP Wetlands as at April 2004. The boundaries illustrated on this map are derived from aerial photography guided by previous scientific and EPP Lakes definitions. The intention of this map is to show the areas proposed for legal protection under the revised EPP in relation to cadastral boundaries.

The draft register is a result of the interpretation of aerial photos, previous scientific and EPP wetland definitions reviewed according to the following three main principles:

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 - . checked at a scale of 1 to 5000
- 2) Remove rivers, creeks, floodplain, estuaries and peripheral estuarine areas as identified from the scientific wetlands dataset
- 3) Keep 1992 existing EPP boundaries if acceptable
 - . use an improved boundary if an existing one can be found in the scientific wetlands dataset
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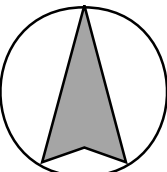
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Legend

- Draft EPP Wetlands
- Draft EPP Wetlands Policy Boundary
- Cadastral Boundaries
- Local Government Boundaries
- Drainage Lines
- Map Sheet 1:100,000

Data Sources

Draft EPP Wetlands - EPA - 07/2004
Draft EPP Wetlands Policy Boundary - EPA - 09/2003
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Drainage Lines - AUSLIG - 06/1995



0 2 4 6 8 10 km

Projection: Map Grid of Australia Zone 50
Datum: Geocentric Datum of Australia, 1994

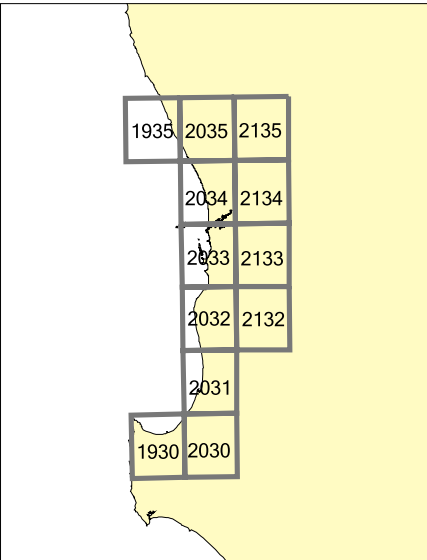
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Map Produced: 07/2004



www.epa.wa.gov.au

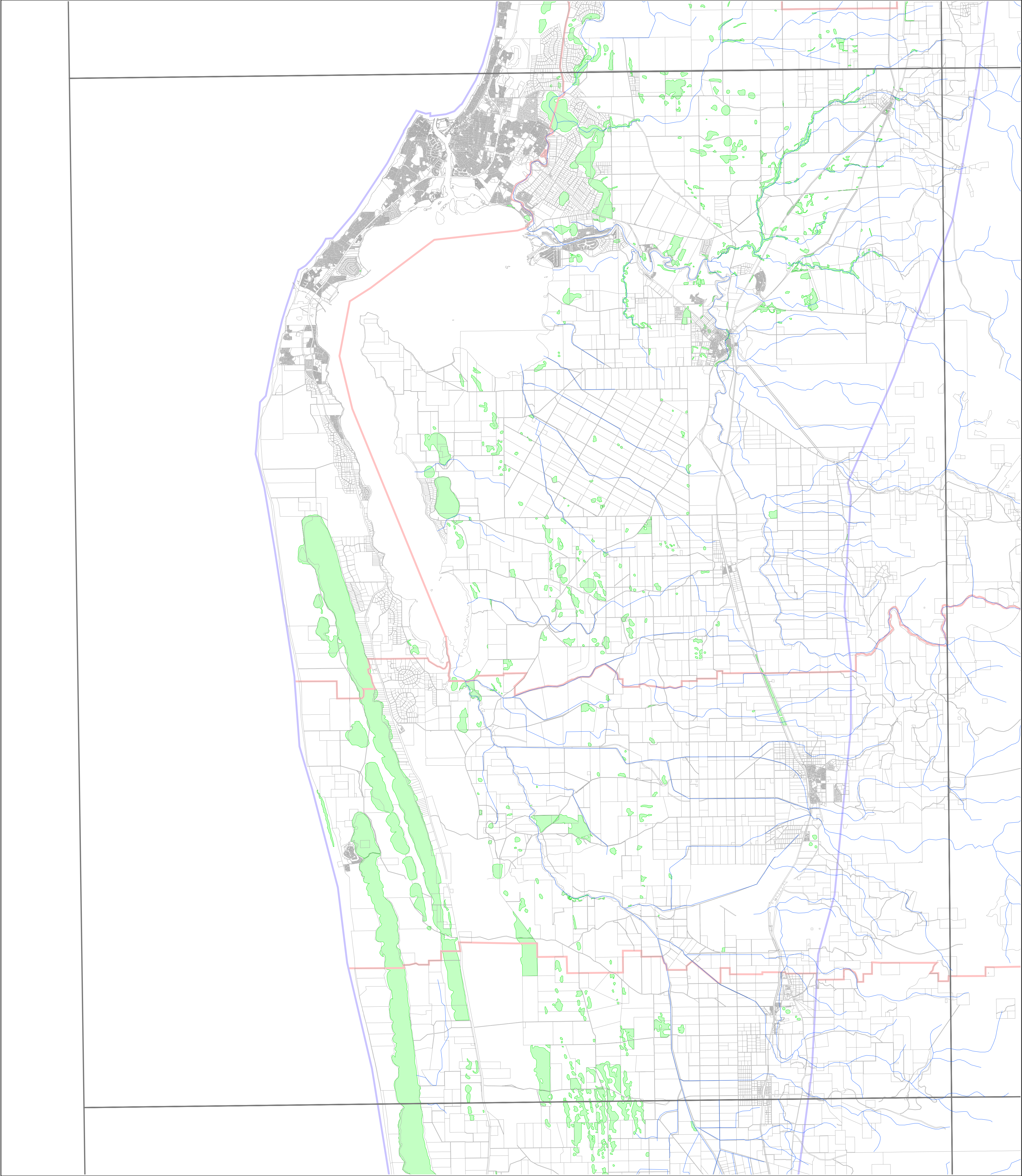
Location Map



Environmental Protection Authority

Draft Environmental Protection (Swan Coastal Plain Wetlands) Policy 2004

Map Sheet 2032



History of the Wetlands EPP

In 1999 a statutory review of the Environmental Protection (Swan Coastal Plain Lakes) Policy 1992 was required under Part III of the Environmental Protection Act 1986. As part of this statutory process a Draft Environmental Protection (Swan Coastal Plain Wetlands) Policy 1999 was released for public comment. Following consideration of comments, a Revised Draft Environmental Protection (Swan Coastal Plain Wetlands) Policy 1999 was then prepared by the EPA and transmitted to the Minister for the Environment for consideration.

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View the draft EPP Wetlands 2004 at: www.epa.wa.gov.au

About the Data

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- 3) Keep 1992 existing EPP boundaries if acceptable
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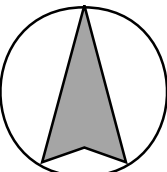
The legal boundary of any protected wetland is defined by the co-ordinates found within the 2004 Wetlands EPP register. This map is a representation of those legal boundaries.

Legend

- Draft EPP Wetlands
- Draft EPP Wetlands Policy Boundary
- Cadastral Boundaries
- Local Government Boundaries
- Drainage Lines
- Map Sheet 1:100,000

Data Sources

Draft EPP Wetlands - EPA - 07/2004
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0 2 4 6 8 10 km

Projection: Map Grid of Australia Zone 50
Datum: Geocentric Datum of Australia, 1994

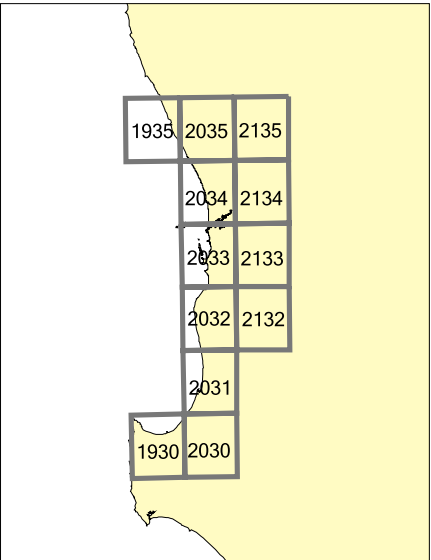
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Map Produced: 07/2004



www.epa.wa.gov.au

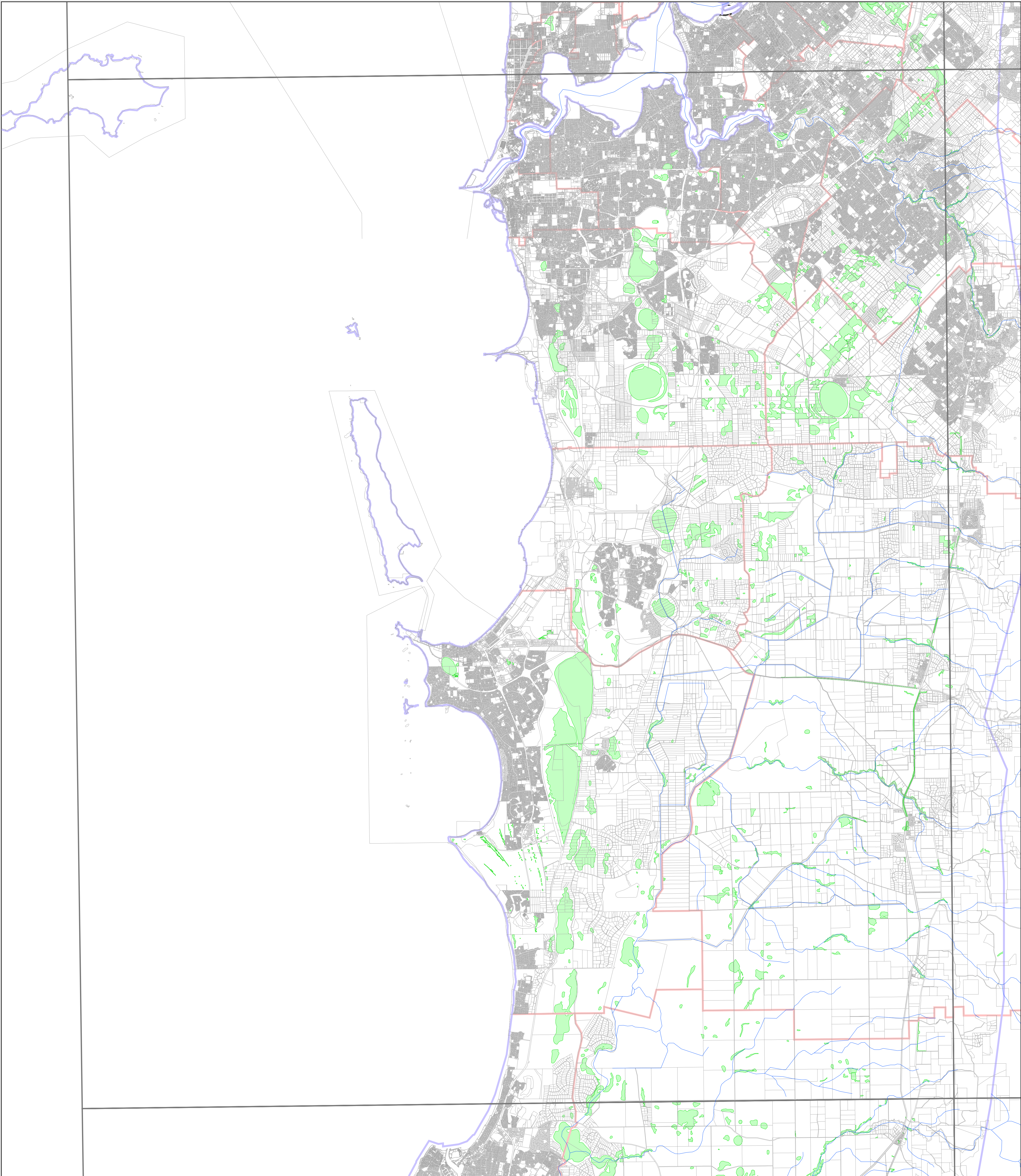
Location Map



Environmental Protection Authority

Draft Environmental Protection (Swan Coastal Plain Wetlands) Policy 2004

Map Sheet 2033



History of the Wetlands EPP

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View the draft EPP Wetlands 2004 at: www.epa.wa.gov.au

About the Data

This map represents the spatial definition of the draft 2004 EPP Wetlands as at April 2004. The boundaries illustrated on this map are derived from aerial photography guided by previous scientific and EPP Lakes definitions. The intention of this map is to show the areas proposed for legal protection under the revised EPP in relation to cadastral boundaries.

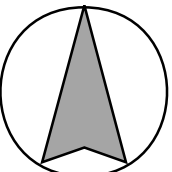
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Legend

- Draft EPP Wetlands
- Draft EPP Wetlands Policy Boundary
- Cadastral Boundaries
- Local Government Boundaries
- Drainage Lines
- Map Sheet 1:100,000



0 2 4 6 8 10 km

Projection: Map Grid of Australia Zone 50
Datum: Geocentric Datum of Australia, 1994

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Map Produced: 07/2004

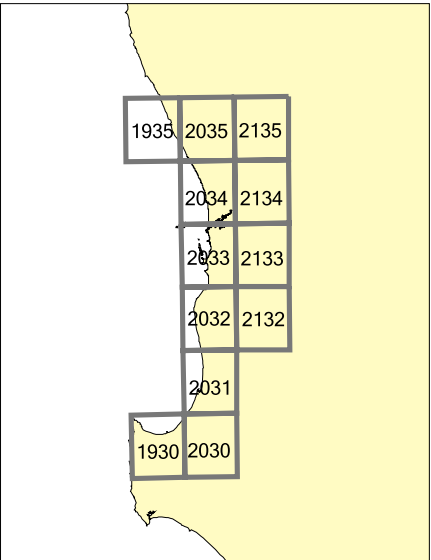
Data Sources

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Draft EPP Wetlands Policy Boundary - EPA - 09/2003
Cadastre - DOLA - 09/2003
Local Government Boundaries - DOLA - 06/1990
Drainage Lines - AUSLIG - 06/1995



www.epa.wa.gov.au

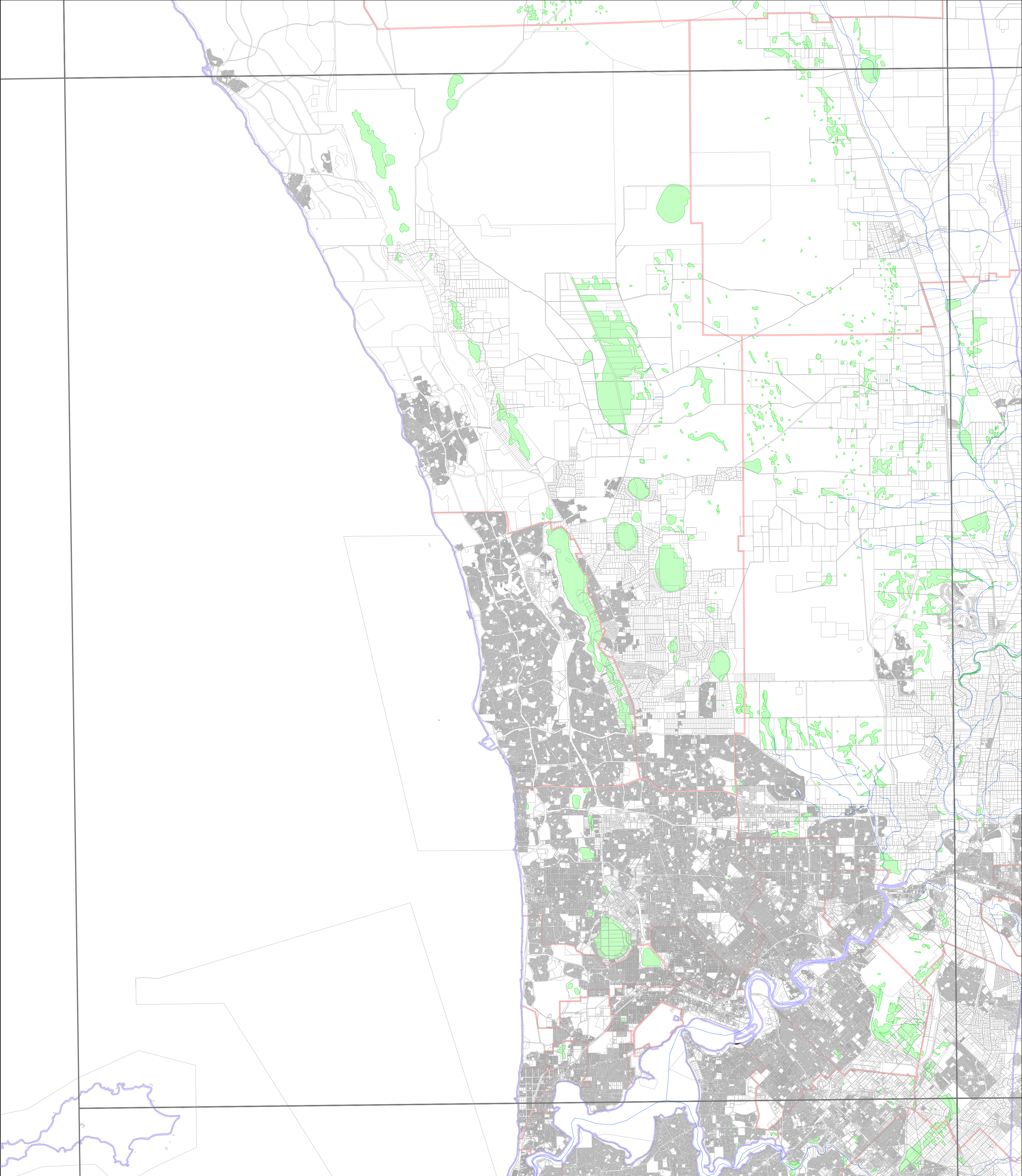
Location Map



Environmental Protection Authority

Draft Environmental Protection (Swan Coastal Plain Wetlands) Policy 2004

Map Sheet 2034



History of the Wetlands EPP

In 1999 a statutory review of the Environmental Protection (Swan Coastal Plain Lakes) Policy 1992 was required under Part III of the Environmental Protection Act 1986. As part of this statutory process a Draft Environmental Protection (Swan Coastal Plain Wetlands) Policy 1999 was released for public comment. Following consideration of comments, a Revised Draft Environmental Protection (Swan Coastal Plain Wetlands) Policy 1999 was then prepared by the EPA and transmitted to the Minister for the Environment for consideration.

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View the draft EPP Wetlands 2004 at: www.epa.wa.gov.au

About the Data

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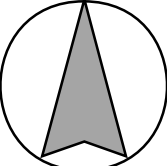
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Legend

- Draft EPP Wetlands
- Draft EPP Wetlands Policy Boundary
- Cadastral Boundaries
- Local Government Boundaries
- Drainage Lines
- Map Sheet 1:100,000



0 2 4 6 8 10 km

Projection: Map Grid of Australia Zone 50
Datum: Geocentric Datum of Australia, 1994

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Map Produced: 07/2004

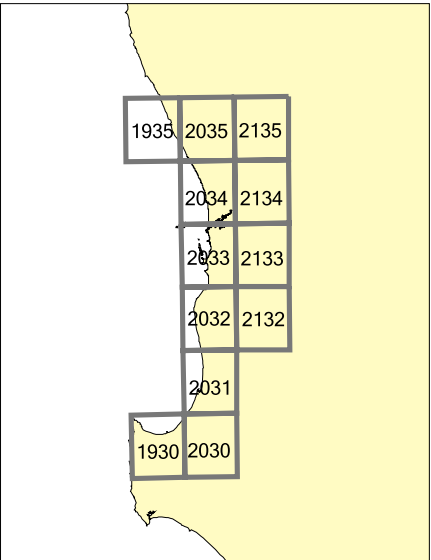
Data Sources

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Draft EPP Wetlands Policy Boundary - EPA - 09/2003
Cadastral - DOLA - 09/2003
Local Government Boundaries - DOLA - 06/1990
Drainage Lines - AUSLIG - 06/1995



www.epa.wa.gov.au

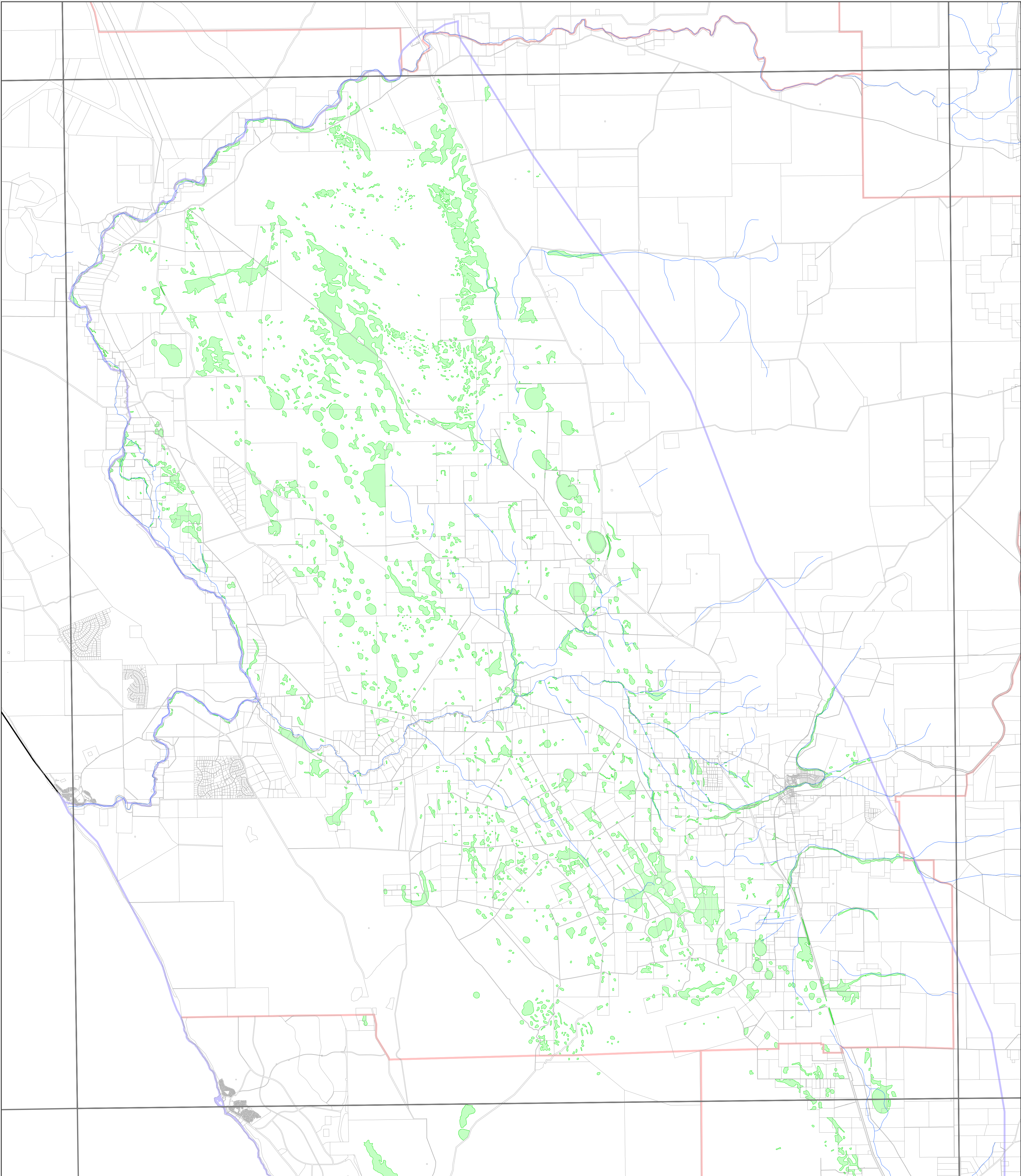
Location Map



Environmental Protection Authority

Draft Environmental Protection (Swan Coastal Plain Wetlands) Policy 2004

Map Sheet 2035



History of the Wetlands EPP

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View the draft EPP Wetlands 2004 at: www.epa.wa.gov.au

About the Data

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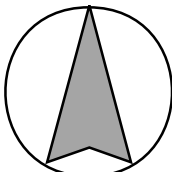
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Legend

- Draft EPP Wetlands
- Draft EPP Wetlands Policy Boundary
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- Local Government Boundaries
- Drainage Lines
- Map Sheet 1:100,000

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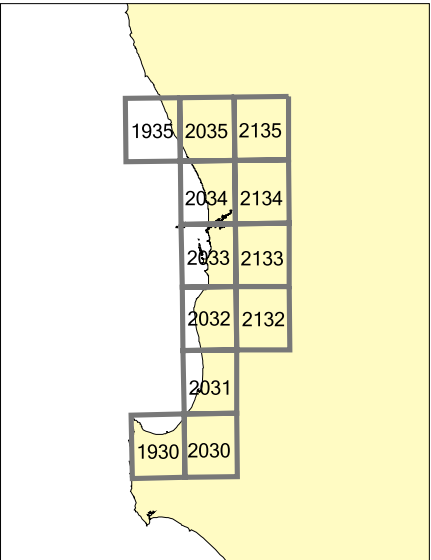
0 2 4 6 8 10 km

Projection: Map Grid of Australia Zone 50
Datum: Geocentric Datum of Australia, 1994

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Map Produced: 07/2004

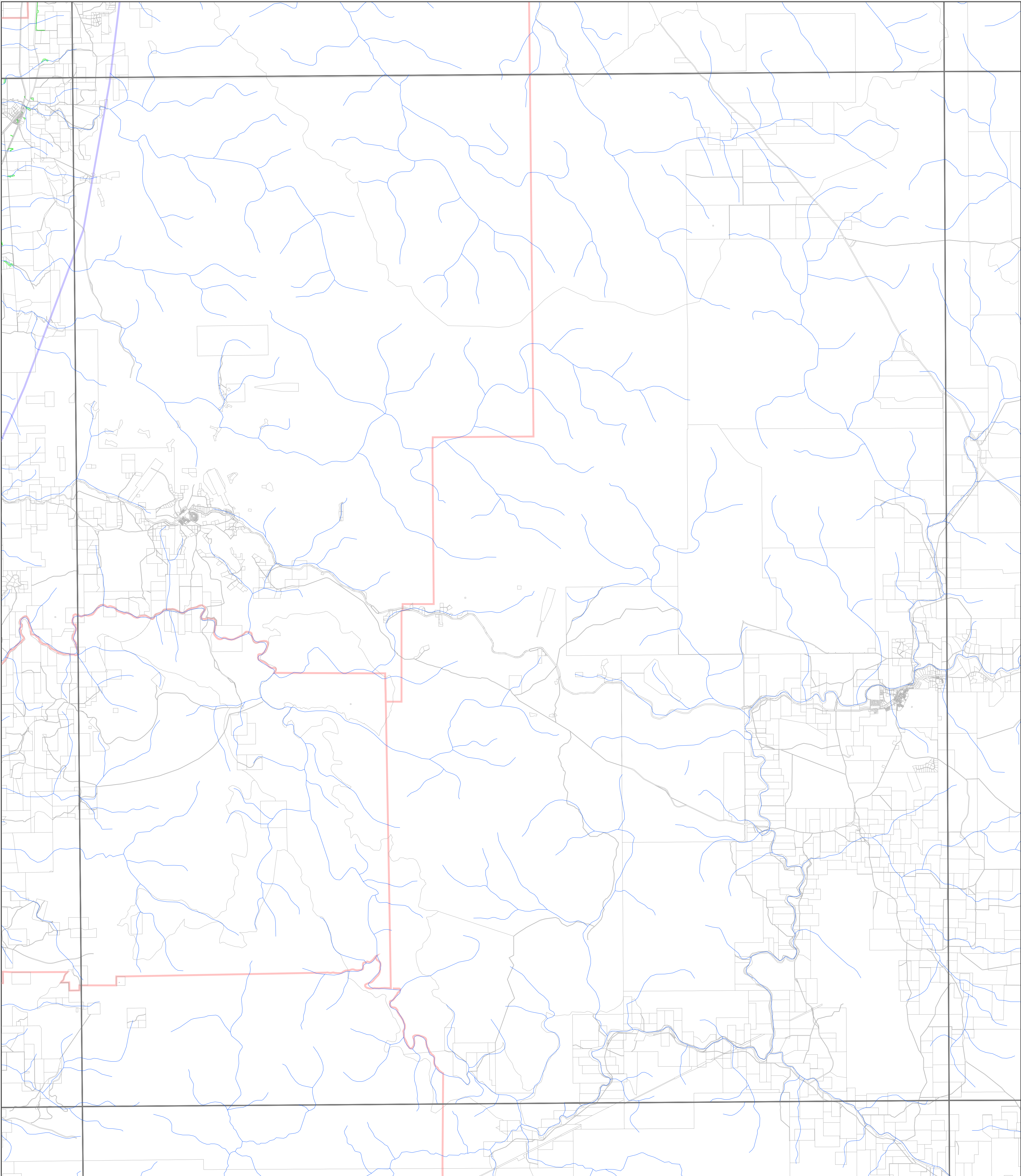
Location Map



Environmental Protection Authority

Draft Environmental Protection (Swan Coastal Plain Wetlands) Policy 2004

Map Sheet 2132



History of the Wetlands EPP

In 1999 a statutory review of the Environmental Protection (Swan Coastal Plain Lakes) Policy 1992 was required under Part III of the Environmental Protection Act 1986. As part of this statutory process a Draft Environmental Protection (Swan Coastal Plain Wetlands) Policy 1999 was released for public comment. Following consideration of comments, a Revised Draft Environmental Protection (Swan Coastal Plain Wetlands) Policy 1999 was then prepared by the EPA and transmitted to the Minister for the Environment for consideration.

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View the draft EPP Wetlands 2004 at: www.epa.wa.gov.au

About the Data

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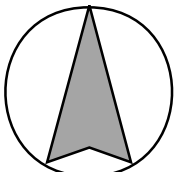
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Legend

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- Draft EPP Wetlands Policy Boundary
- Cadastral Boundaries
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- Drainage Lines
- Map Sheet 1:100,000

Data Sources

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0 2 4 6 8 10 km

Projection: Map Grid of Australia Zone 50
Datum: Geocentric Datum of Australia, 1994

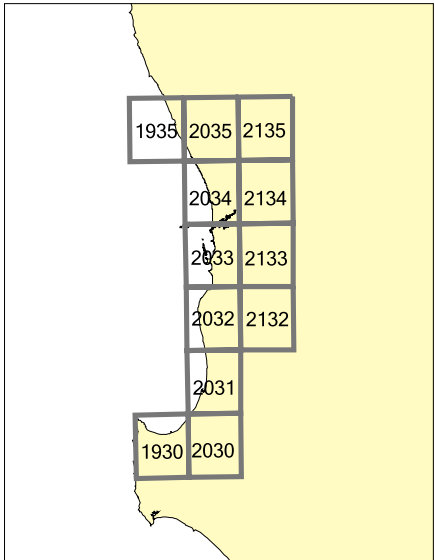
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Map Produced: 07/2004



www.epa.wa.gov.au

Location Map



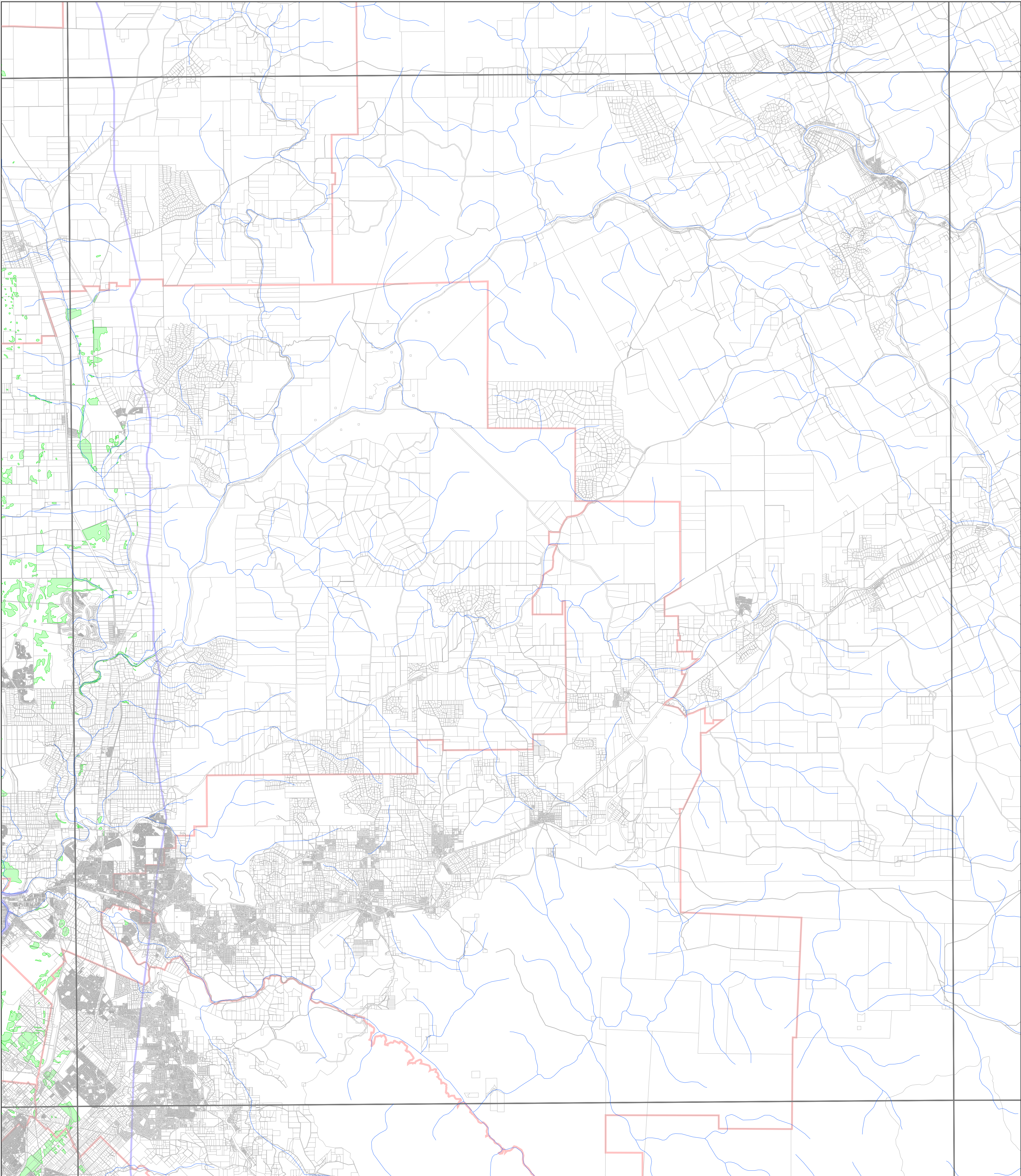
1935	2035	2135
	2034	2134
	2033	2133
	2032	2132
	2031	
1930	2030	



Environmental Protection Authority

Draft Environmental Protection (Swan Coastal Plain Wetlands) Policy 2004

Map Sheet 2134



History of the Wetlands EPP

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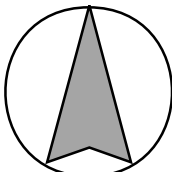
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Legend

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- Map Sheet 1:100,000

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0 2 4 6 8 10 km

Projection: Map Grid of Australia Zone 50
Datum: Geocentric Datum of Australia, 1994

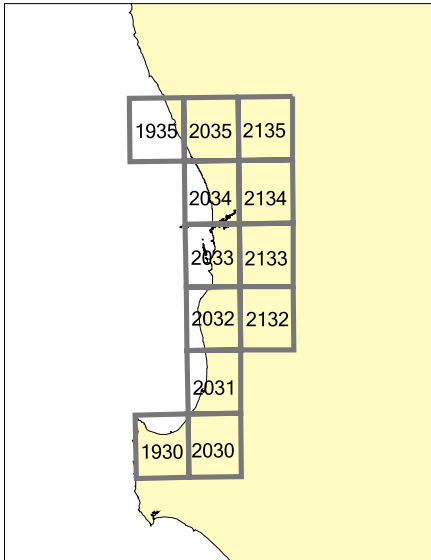
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Map Produced: 07/2004



www.epa.wa.gov.au

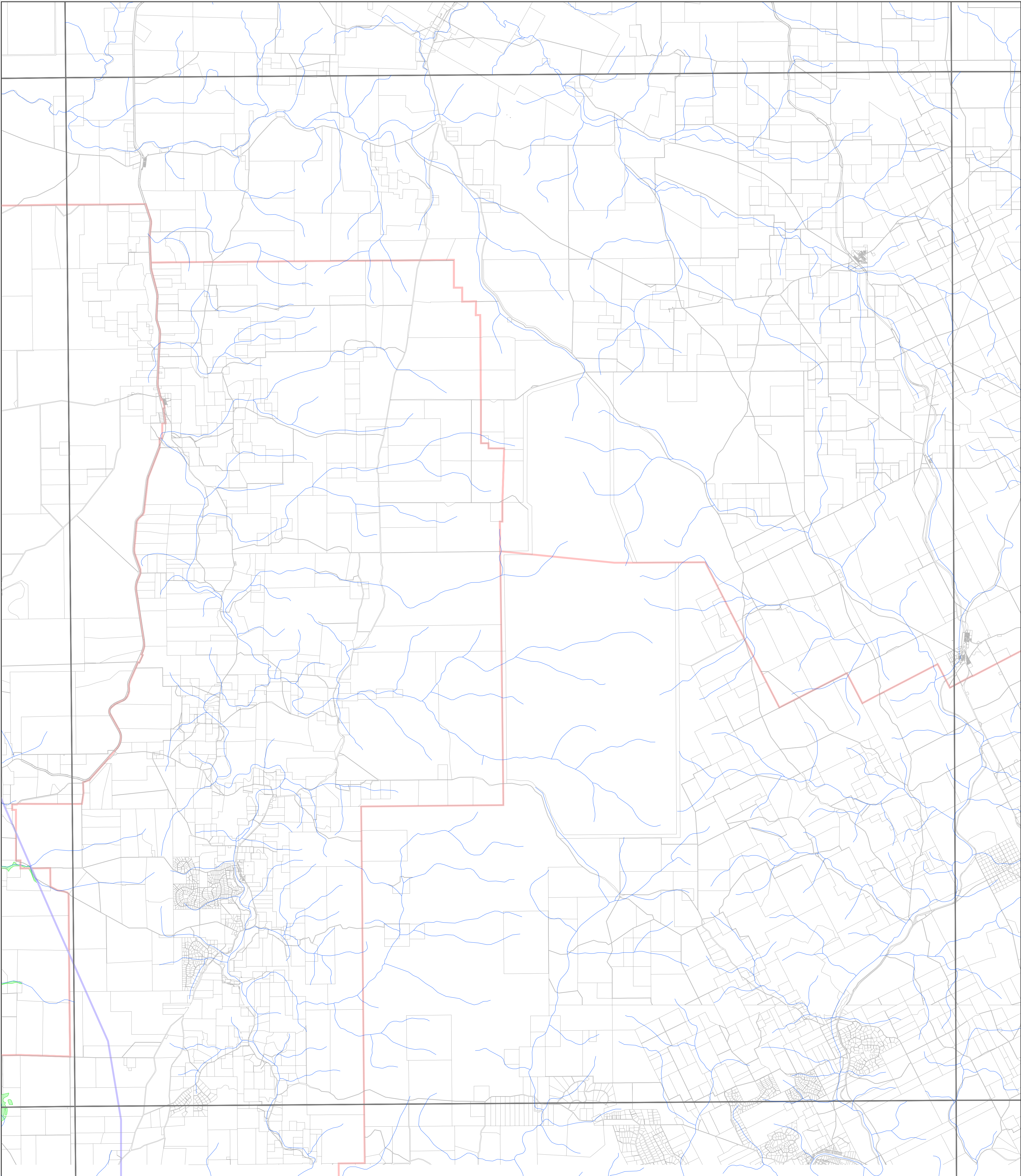
Location Map



Environmental Protection Authority

Draft Environmental Protection (Swan Coastal Plain Wetlands) Policy 2004

Map Sheet 2135



History of the Wetlands EPP

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 - . unsealed roads, fence lines and utility easements are not classed as development affecting wetlands
 - . checked at a scale of 1 to 5000
- 2) Remove rivers, creeks, floodplain, estuaries and peripheral estuarine areas as identified from the scientific wetlands dataset
- 3) Keep 1992 existing EPP boundaries if acceptable
 - . use an improved boundary if an existing one can be found in the scientific wetlands dataset
 - . use or refine a river, creek, floodplain or estuary boundary if an 1992 EPP Lake falls over it

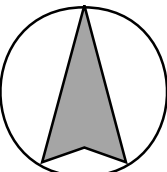
The legal boundary of any protected wetland is defined by the co-ordinates found within the 2004 Wetlands EPP register. This map is a representation of those legal boundaries.

Legend

- Draft EPP Wetlands
- Draft EPP Wetlands Policy Boundary
- Cadastral Boundaries
- Local Government Boundaries
- Drainage Lines
- Map Sheet 1:100,000

Data Sources

Draft EPP Wetlands - EPA - 07/2004
Draft EPP Wetlands Policy Boundary - EPA - 09/2003
Cadastré - DOLA - 09/2003
Local Government Boundaries - DOLA - 06/1990
Drainage Lines - AUSLIG - 06/1995



0 2 4 6 8 10 km

Projection: Map Grid of Australia Zone 50
Datum: Geocentric Datum of Australia, 1994

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Map Produced: 07/2004



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Location Map

