Dear Minister

In accordance with Section 21 of the Environmental Protection Act as amended, I submit the EPA’s annual report for the year ended 30 June 1994.

It is with pleasure that on behalf of the EPA I advise, in co-operation with the Department of Environmental Protection, that for the reporting period it has met its objectives outlined in Section 15 of the Environmental Protection Act.

Yours faithfully

R K Steedman
CHAIRMAN

21 October 1994

Enc
# Contents

**Transmittal**

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Environmental Protection Act Amendment

The Environmental Protection Act was amended in 1993. The amendments were proclaimed on 14 January 1994 and represented the first substantive changes to the Environmental Protection Act 1986. They achieved:

• separation of the roles of chairman of the Environmental Protection Authority and chief executive officer of the supporting public service department;

• retention of EPA membership as five persons to be appointed by the Governor rather than the Minister as previously;

• clarification of EPA voting arrangements and providing public access to the records of Authority meetings; and

• provision for the Minister to ensure the Authority is properly resourced to carry out its tasks under the Act.

Objectives and Functions

To date, the Act as it relates to the objectives and functions of the Environmental Protection Authority (EPA) has remained unaltered.

The objectives of the EPA defined under the Environmental Protection Act as amended are to use its best endeavours to:

• protect the environment; and

• prevent, control and abate pollution.

To achieve these objectives the EPA has a diverse range of functions which include to:

• formulate for approval, environmental protection policies;

• conduct environmental studies;

• advise the Minister on environmental matters generally; and

• publish reports on environmental matters.

Ministerial

For the reporting period the Minister for the Environment was the Hon Kevin Minson, MLA.

EPA Members and Staff

The EPA consists of five members, including a chairman, who are not public servants.

During the reporting period Mr Barry Carbon was Chairman, Mr Charlie Welker was Deputy Chairman, and Dr John Bailey and Mr Norman Halse were members to 14 January 1994. By agreement with the Government, Mr Carbon was on extended leave from 16 July 1993.

Members appointed in January 1994 were Dr Ray Steedman (Chairman), Mr Bernard Bowen (Deputy Chairman), Mr Chris Rowe, Dr Brian Logan and Dr Christine Sharp who was first appointed in 1989.

Staff

Two EPA staff members were appointed in February 1994 and comprise a secretary, Coralie Faulkner, and executive officer, Ms Fiona Keating.

Ministerial Decisions and EPA Advice

It is worthwhile emphasising that the Minister for the Environment and Government make the final decision on environmental matters brought forward. The EPA only provides advice to the Minister on these matters. The advisory role of the EPA is often misunderstood.
Relationship between the EPA, Minister and the Department of Environmental Protection

The Environmental Protection Act as amended provides for the separation of the roles of the Chairman of the EPA and the Chief Executive Officer of the Department of Environmental Protection. The legislation also allows for the provision of services and facilities from the Department to the EPA.

The Department is responsible to the Minister for the Environment and provides services and advice to the EPA. Resourcing of the EPA to perform its functions is by agreement between the Minister for the Environment, the EPA and the Department of Environmental Protection.

The Department provides technical and professional support to the EPA to enable it to carry out its statutory functions under Part III (Environmental Protection Policies) and Part IV (Environmental Impact Assessment) of the Environmental Protection Act. The Department is responsible for the control of pollution and enforcement under Part V and VI of the Environmental Protection Act.

Departmental activities include briefing the EPA on project assessments, policies and strategies, preparing and publishing EPA documents on its behalf, and general administrative support. The Department is also responsible for the timeliness of reporting procedures.

Day to day operations and communications between the EPA and the Department make it impractical to pass all information through the Minister. Consequently a practical working arrangement is being developed between the Minister, the EPA and the Department. Regular joint meetings between the Minister, EPA Chairman and Departmental Chief Executive Officer ensure all parties are continuously informed.

Advisory Council to the EPA

Within the provisions of the Environmental Protection Act an Advisory Council to the EPA has been established.

The Council comprises 11 members with Mrs Pat Barblett as Chairman.

The Advisory Council to the EPA comprises individuals who, by their experience and backgrounds in commerce, industry, environmental sciences, tourism, or community affairs, provide as wide a representation as possible of the whole community. Members are appointed as individuals, not as representatives of specific interest or industry groups. During the reporting period the members of the Advisory Council to the EPA were:

Mrs Pat Barblett — Chairman
Mr Harry Butler
Mr Harold Clough (to November 1993)
Mr David Crawford (from December 1993)
Mr Malcolm Hay (from March 1994)
Mr Simon Holthouse
Professor Philip Jennings
Dr Des Kelly
Mrs Diane McCusker (from March 1994)
Mr Ian Purse (from November 1993)
Ms Jan Star
Mr Roger Vines

Current members are appointed to December 1996. During the reporting period the Council met on five occasions. It is now scheduled to meet monthly. The EPA seeks the Advisory Council’s advice on various issues of the day. During 1993-94 the Advisory Council provided advice to the EPA on allocating environmental capacity, later assessment of management measures, environmental reviews — guidelines for proponents, industry buffer zone strategy and the review of prescribed premises.

The valuable contribution of the Advisory Council to issues considered by the EPA is gratefully acknowledged.
Dr Ray Steedman

Dr Ray Steedman received his PhD from the Flinders University of South Australia. Dr Steedman brings to the EPA more than 20 years' experience and expertise in mathematics and physics applied to engineering and the environment.

In 1974, Ray Steedman established an oceanographic and meteorological business, R.K. Steedman and Associates, in Western Australia. Since then he has directed local and international companies and has been involved as a consultant and member in many environmental projects associated with industry, particularly in Australia and South East Asia.

His experience includes helping governments to develop and implement science and technology policy as chairman of the Australian Institute of Marine Science. He has also been a member of several CSIRO, university and national committees and has published widely in local and international scientific journals.

Mr Bernard Bowen

Bernard Bowen was Director of the Fisheries Department between 1990 and 1995. Mr Bowen has been involved in extensive marine research and has held several senior Federal Government positions.

Since his retirement from the Fisheries Department, Mr Bowen has become a Director of the Australian Fisheries Management Authority and chairman of the CSIRO Fisheries Division Advisory Committee. Mr Bowen has a Bachelor of Science from the University of Western Australia.

Dr Christine Sharp

Dr Christine Sharp was originally appointed to the EPA in November 1989. She has been involved in WA environmental issues for 19 years and received her PhD in mathematics from Murdoch University in 1985.

At a former Belgrano ship councilor and a member of the South West Development Authority's Advisory Committee, Dr Sharp has a keen understanding of the needs and sizes of a broad range of conservation and environmental groups. During her time with the EPA, she has been involved in initiating policy in a range of areas including climate protection, remnant vegetation and forest management.

Dr Sharp is a partner in the Small Tree Farm at Edendup which she jointly established in 1995.

Mr Chris Rowe

Chris Rowe, who read economics and law at Cambridge University, was a partner in a Perth commercial law firm from 1972 to 1979. He has subsequently consulted to several oil and gas and mining industries and is currently director of Asian Resources Canada.

In January 1991 Mr Rowe was appointed as Council assisting the Royal Commission into Commercial Activities of Government and other matters.

He has a continuing interest in conservation and the environment and is a member of both the Council and Executive Committee of the National Trust of Australia (WA).

Dr Brian Logan

Dr Brian Logan is a Reader in geology at the University of Western Australia. He has done extensive research projects for both industry and government on many parts of Western Australia's environment, often focusing on the issues of resource development and conservation. Between 1972 and 1975 he provided technical advice to the State Government's Conservation Through Reserves Committee.

With about 30 years of diverse experience relating to the environment, Dr Logan has particular expertise in the geological processes of WA's landscapes.
EPA

The EPA meets approximately once a month to consider matters of environmental policy, assessment and pollution prevention, and to formulate advice and recommendations on these matters for the Minister for the Environment and government agencies. A list of issues considered by the EPA during the reporting period is included as Appendix I.

The EPA formulates its advice and recommendations independently from officers of the Department of Environmental Protection, except for the Chief Executive Officer or his representative who in accordance with the Environmental Protection Act is present at the meeting with an observer status.

The Environmental Protection Act requires that the minutes of EPA meetings be made available for public inspection and that voting on issues be recorded. Prescribed times and places for the availability of EPA meeting minutes are being regulated. Currently, minutes are made available on request subject to the EPA deliberations on the matter being finalised or after six months whichever is the sooner.

Consultation

The EPA considers it is essential to obtain informed and wide-ranging views. As part of its processes the EPA endeavours to discuss first hand issues under consideration with proponents and other people who may have a management, scientific or other informed view on environmental protection. Site visits form an important part of this consultation where the EPA may discuss and observe issues in the field.

Visits made by the EPA chairman or members during the reporting period to country sites include:

- Busselton to examine with the shire, interested groups and MLA Barry Blaikie, issues associated with wetlands, international migratory birds and catchment management;
- Worley Alumina Pty Ltd Boddington Gold Mine to look over the operations and proposed rehabilitation of the area with the company;
- Lake Chinocup at the headwaters of the Blackwood River to discuss with the shire, proponent and local farming community a proposal to mine gypsum in an A-Class nature reserve and associated agricultural land management issues;
- Shark Bay region to familiarise with the Shark Bay Salt operations at Useless Loop, shell sand mining on L'Haridon Bight foreshore, tourism operations, conservation areas and shire development and hold discussions with companies, the shire and the Department of Conservation and Land Management;
- Carnarvon Shire to discuss Shark Bay and coastal environmental matters; and
• Wundowie to inspect with Clough Resources its operations, contaminated site and mine rehabilitation.

Visits made during the reporting period to sites in the Perth metropolitan area include:

• Port Kennedy to view new planning zones, coastal and wetland areas, bandicoots and proposed tourism development site with the local land conservation district committee;

• The Spectacles wetland to discuss wetland management issues with the National Trust;

• Lake Tamworth near Baldivis with the proponent to discuss the proposed peat mining;

• Warnbro Sound which is a part of the Southern Metropolitan Coastal Waters Study being undertaken by the Department of Environmental Protection;

• Coogee to inspect the Love Starches operations to discuss a proposal by the company which included issues of waste discharge and potential impacts on Cockburn Sound;

• Kwinana Industrial area on several occasions including visits to the BP petroleum refinery, Alcoa Australia refinery and CSBP; and

• Perth air quality monitoring sites with the Department of Environmental Protection.

During the year the EPA had many meetings with industry and conservation groups including:

• Kwinana Industries Council;

• WA Farmers Federation;

• Chamber of Mines and Energy, WA;

• WA Chamber of Commerce and Industry — Environment Committee;

• Conservation Council of WA;

• Environmental Consultants Association;

• Urban Development Institute of Australia; and

• Institute of Engineers — Environment Panel.

These visits and meetings have greatly contributed to the ability of the EPA to make recommendations on specific matters.

**Studies**

Major studies being undertaken by the Department of Environmental Protection and other agencies on behalf of the EPA include the Perth Photochemical Smog Study and the Southern Metropolitan Coastal Waters Study.

**Perth Photochemical Smog Study:**

As part of the environmental approval for a gas turbine power station at Pinjar, north of Perth, SECWA is funding and managing the Perth Photochemical Smog Study. This study is investigating the formation and distribution of photochemical smog over the Perth region and determining the influence, if any, of installations such as the Pinjar gas turbines. It is being conducted as a joint project with the Department of Environmental Protection and is due for completion by mid-1995.

**Southern Metropolitan Coastal Waters Study:**

In 1990 the EPA assessed a proposal by the Water Authority to build and operate a wastewater ocean outlet into the waters of Marmion Marine Park. As a result a study is being undertaken by the Department of Environmental Protection to develop an understanding of the environmental consequences of the cumulative impacts of waste discharges to the southern metropolitan coastal waters of Perth. A complementary study is being undertaken by the Water Authority for the northern and wider metropolitan coastal waters off Perth. The studies are due for completion at the end of 1994.
Environmental Protection Policies

Under the Environmental Protection Act, the EPA can prepare policies which are aimed at protecting specific parts of the West Australian environment. That protection can extend to any portion of the environment, or deal with the prevention, control or abatement of pollution. The EPA regards environmental protection policies as an important means of protecting the environment.

Depending on the circumstances, they can identify areas of the environment that need protection, and specify when rules to protect them must apply. They can set out requirements which people, companies and governments must adhere to in monitoring and measuring, say, dust in the air.

There are requirements under the Environmental Protection Act to advertise and publish policies for comment. This aims to ensure all stakeholders have an opportunity to review a policy prior to it being legislated.

During the past year the EPA has completed the review of one Environmental Protection Policy, this being the Environmental Protection (Ozone Protection) Policy 1993 which came into effect on 1 December 1993. The policy applies to CFCs, halon, carbon tetrachloride, methyl chloroform, HCFCs and mixtures of these.

The EPA has progressed several other draft policies to protect specific parts of the environment. These draft policies have been or will be advertised and comment sought before the EPA makes a recommendation to government that final policies be approved. These include draft Environmental Protection Policies for the:

- Western Swamp Tortoise — 1994;
- South West Agricultural Zone: Lakes and Swamps — 1994;
- Swan and Canning Rivers (working drafts) — 1993;
- Jandakot Mound Groundwater — 1993; and

Environmental Impact Assessment

Environmental impact assessment is a major function under the Environmental Protection Act. The process is aimed at protecting the environment by ensuring development is environmentally sound and well managed.

Proponents can be private developers, government departments or local authorities and each is treated similarly by the EPA which is obliged to assess all proposals which might have a significant environmental impact. The environmental impact assessment process is public.

The EPA will recommend environmental approval if it can be shown that the environment will be protected. If proponents cannot show that the environment will be protected, the EPA will recommend against their proposals. For all proposals subject to environmental impact assessment the Government decides whether it accepts the EPA advice.

During the past year, 47 development proposals referred to the EPA were subject to formal assessment under the provisions of Part IV of the Environmental Protection Act, compared to 45 in 1992-93. A total of 54 formal assessments were completed. These are listed in Appendix II. There remained no backlog of assessments planned for release in the 1993-94 period. For formal assessments the statistics showed that the average time taken to complete assessments is less when compared with the previous year.

A further 209 proposals were subject to “informal” environment review, with 167 being completed in the reporting period (Appendix III). In this process a formal delegation means that the Department of Environmental Protection, on behalf of the EPA, provides advice to help developers and relevant agencies implement environmentally acceptable proposals.

Pollution Prevention

In 1993 the EPA released a bulletin entitled Sustainable Development and the Kwinana Industrial Area in response to Kwinana Industries Co-ordinating Committee’s report.
Towards Optimising Kwinana: This report suggested that some of the environmental protection standards associated with Kwinana industries might be subject to reconsideration.

Issues of principal concern to the EPA included protection of the Cockburn Sound marine environment, air pollution, groundwater pollution and environmental risks and hazards.

Air quality in the Kwinana area has been an issue of particular concern for many years. The EPA has developed a strategy for controlling sulphur dioxide emissions from industries which has been given effect through an environmental protection policy, associated regulations and conditions on the licences of Kwinana industries, managed through the Department of Environmental Protection.

Broadly, the EPA believes that significant improvements in overall environmental performance can be achieved by shifting the focus from 'end-of-pipe' pollution control measures to adoption of preventative pollution strategies that minimise or eliminate pollution at the source.

Most developed countries have embraced pollution prevention philosophies, policies and practices. They are consistent with the principles of ecologically sustainable development and best practice environmental management and can result in economic benefits for industry.

Industry, government and the community will need to work together to develop and implement realistic pollution prevention programmes and goals.

The EPA believes that, with adherence to the well-established environmental protection standards currently in place — together with pursuit by industry of all practical opportunities for pollution prevention — the overall environmental performance of the existing Kwinana industrial area could be lifted to accommodate an increase in overall industrial capacity.
The issues facing the EPA are complex and diverse. To help formulate policy and provide advice the EPA has approached the diverse aspects of environmental protection by developing a plan. This process commenced in March 1994 and resulted in a plan, which is developed in an internal working document of the EPA.

**Structure and Categories of Environmental Issues**

The environmental issues confronted by the EPA can be put into three main categories, namely:

- protection of the total State of Western Australia;
- specific local and regional environmental issues and sustainable development; and
- management and technologies.

The categories in part reflect the space and time scales of the environment and in part reflect management and technology requirements. All categories are inter-related. More categories may become apparent in the future.

**Approach**

Based on the issues confronting the EPA an initial series of projects were identified which span the above categories. Setting priorities to which all interested parties can agree is a very difficult, if not impossible, task as environmental issues touch all sectors of society and are numerous in the extreme.

However the EPA considered it important to set some priorities to enable it to focus on important issues over a given period. In selecting projects to begin the plan, the EPA was aware of current studies and policies which are being undertaken or developed by the Department of Environmental Protection, some on behalf of the EPA, and which are reasonably well advanced.

The projects selected as a priority for the EPA were chosen because each provided an opportunity for:

- the development of environmental policies which could have broad application;
- the identification of issues which are easily recognised and accepted by Government, industry and the general public; and
- the establishment of best practice environmental management.

It is intended that the EPA regularly reviews its plan to take account of projects which will fall away when completed and to enable new issues to come forward.

**Protection of the Total State of Western Australia**

The EPA considered that a long term comprehensive vision of the West Australian environment needs to be developed. Regular reports on the state of the environment should be prepared to determine our progress towards this vision.

The EPA commenced preparing a project plan for the state of the environment report, and considering how a vision for the West Australian environment could be developed and what it might look like. Implementation of these projects are priorities for the coming year.

Coastal zone protection is also a priority issue for the whole of the State. The EPA prepared a submission to the WA coastal management review which addressed issues of a clear definition of the coastal zone, identification of goals and objectives for coastal management, examination of the administration and co-ordination, and funding sources and requirements of coastal management.
The EPA considers it is important to have clear objectives for the protection, development and management of Western Australia's coastal zone. A governance regime should be developed for the coast which responds to existing institutional complexity, meaningfully accommodates the participation of multiple authorities and interests, and provides incentives for consensus decision making.

Other topics for the total state consideration are international, commonwealth and state agreements related to the environment; and the natural environment as a resource.

**Specific Local and Regional Environmental Issues and Sustainable Development**

There are many issues facing specific localities and regions throughout the State. The EPA focused on several of these during the year.

A proposal to mine gypsum from the Lake Chinocup nature reserve highlighted issues in the wheatbelt associated with land degradation, salinity and the fate of nature reserves, rare and endangered species and remnant vegetation. The EPA through the Department of Environmental Protection is working with the local community and government agencies to develop an overall catchment management plan aimed at sustainable development which balances the economic needs of farmers and the requirements of conservation.

Algal blooms were experienced along reaches of the Swan and Canning rivers during the year; and more can be expected in the coming months. The EPA considers that as a priority clear and achievable environmental objectives need to be set for the Swan-Canning river system, particularly in the Perth metropolitan region. Preliminary discussions were held with relevant agencies during the year to move towards setting these objectives. The objectives should focus on water quality objectives recognizing that issues such as fringing vegetation and broader ecological functions need to be addressed to ensure water quality maintenance.

Industrial development is set to expand in the Pilbara region of Western Australia. The EPA considers important issues for further development in this area and other parts of the State are a move towards cleaner production and waste minimisation, and the interaction of heavy industry with fragile environments. In June 1994 the 'Burrup Peninsula Draft Land Use and Management Plan' was referred to the EPA with the level of assessment set at Public Environmental Review. This level of assessment was subsequently revoked upon the discovery of apparent legal impediments which at the time of reporting have still to be determined.

**Management and Technologies**

An important task for the EPA is to ensure it receives an appropriate level of technological and scientific advice.

To begin this process, the Department of Environmental Protection has purchased computer hardware and software to develop a geographic information system. The continued development of this system will be supported by the EPA.

This is a major commitment of financial and staff resources but is expected to enhance EPA and Department of Environmental Protection access to current information on areas under consideration.

The EPA also initiated an external review of its processes, in particular the environmental impact process, to examine the current procedures, identify areas for improvement and advice on the development of quality assurance procedures.
Performance

The amended Environmental Protection Act ensures that the EPA will be provided with the services and facilities required to perform its functions. During the reporting period these were largely provided through the Department of Environmental Protection.

The EPA advises that in co-operation with the Department of Environmental Protection that it has met its objectives for the reporting period. In particular the EPA has conducted environmental impact assessments; considered and initiated means of protecting the environment and means of controlling and abating pollution; encouraged and carried out studies, investigations and research; obtained advice from persons with special knowledge; advised the Minister on environmental matters; prepared environmental policies; received representations on environmental matters from various groups and individuals; and published reports.

Finance

The 1993-94 costs for the administration of the EPA previously included in the Department of Environmental Protection and the projected 1994-95 costs are as follows:

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<thead>
<tr>
<th>Recurrent</th>
<th>1993/94 Actual</th>
<th>1994/95 Estimate</th>
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<tbody>
<tr>
<td></td>
<td>FTEs $'000</td>
<td>FTEs $'000</td>
</tr>
<tr>
<td>Salaries, Wages and Related Staff Costs</td>
<td>3 52</td>
<td>2 96</td>
</tr>
<tr>
<td>Other Operating Costs:</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Communications</td>
<td>4</td>
<td>4</td>
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<tr>
<td>Services and Contacts</td>
<td>331</td>
<td>198</td>
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<tr>
<td>Other</td>
<td>28</td>
<td>82</td>
</tr>
<tr>
<td>Debt Servicing Costs</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Grants, Subsidies and Transfer Payments</td>
<td>1 615</td>
<td>2 380</td>
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There are a number of matters which have been raised in the past year which the EPA considers to be of importance to environmental protection in Western Australia. The most critical of these matters are discussed here. They require careful consideration by the wide-ranging sectors of our society if we are to be assured that environmental protection systems continue to serve the best interests of this State.

For the past two years legal opinion has suggested planning matters do not constitute a proposal under section 38 of the Environmental Protection Act. This opinion is currently under challenge and is before the Supreme Court. The EPA looks forward to this matter being determined to enable it to properly carry out its functions.

The EPA has also been briefed on proposed changes to planning legislation which aimed in part to bring planning and environmental processes together. The EPA acknowledges the need to ensure functions of the Department of Planning and Urban Development, Department of Environmental Protection and the EPA are streamlined in addressing all environmental issues. However the EPA believes it must be able to fully meet its objectives if it is to be effective in protecting the environment.

In particular the EPA believes in moving towards closer integration of planning and environmental processes that the primacy, independence and assessment procedures of the Environmental Protection Act and Regulations should be retained. This was recommended by the Independent Advisory Committee which reviewed the Environmental Protection Act in 1992.

As a result of the 1993 amendments to the Environmental Protection Act there is greater flexibility for the Department of Environmental Protection to provide early advice to government and industry. The EPA is optimistic that this will in part facilitate the streamlining of all environmental processes.

The EPA considers that a priority for the coming year is to see the recommendations of the 1992 review enacted. An additional matter which the EPA believes should be considered is the number of EPA members.

Currently the legislation allows for five members of the EPA including a full-time chairman, a part-time deputy chairman and three part-time members. The amount of work before the EPA places considerable demands upon the EPA members. The committee system may be used to reduce part of the workload but this would require two additional EPA members. This and other means of ensuring effective EPA function will be explored with the Minister.

The integration of environmental information gathered by government agencies, research institutions and other bodies, the adoption of appropriate technologies and quality accreditation are considered essential to achieve best practice environmental management in Western Australia. These are long term projects which the EPA anticipates will be significantly progressed in the foreseeable future.

The project to update the state of the environment report is due to be undertaken between now and September 1995. This provides a suitable mechanism to begin the process of integrating available environmental information in a computerised database. The continued development of the geographic information system in the Department of Environmental Protection and the external review of environmental processes to be completed during the coming year will greatly assist in moving towards best practice environmental management.

The Environmental Protection Act as amended allows for the provision of services and facilities as are reasonably necessary to enable the EPA to perform its functions. Such provision is necessary if the EPA is to meet its objectives. At present the EPA has a budget for salaries and administrative costs only. There is no project allocation. During the year EPA funding requirements will be reviewed with the Minister and the Department.

The EPA will be moving to obtain a better understanding of all Government (State and Commonwealth) funding applied to environmental matters. The EPA considers that it is important that the views of Western Australia are adequately represented at the national level and, given the State comprises one third of the continent, should be receiving a significant share of national funds.
As previously discussed during the reporting period there were changes to the membership of the EPA. Mr Barry Carbon was Chairman, Mr Charlie Welker was Deputy Chairman, and Dr John Bailey and Mr Norman Halse were members to 14 January 1994. By agreement with the Government, Mr Carbon was on extended leave from 16 July 1993.

Mr Carbon was appointed EPA chairman in May 1985 and was the Authority’s longest serving chairman. His term encompassed the introduction of the new Act in 1986 which brought fundamental changes to the way environmental protection was administered in Western Australia.

Each of the former members brought a wide range of expertise and interests to the operations of the EPA. Their commitment to environmental protection is evident in many major environmental assessments, policies and initiatives taken during their terms on the EPA. The work of the former EPA members and their contribution to environmental protection in Western Australia is acknowledged.

The EPA acknowledges the invaluable assistance given by Mr Colin Sanders, Acting Chief Executive Officer, and his staff of the Department of Environmental Protection. Their advice has been frank and forthright and proved invaluable to the incoming EPA.
Appendices
## Issues

Issues presented to or reported on by the Environmental Protection Authority in 1993-94

### A

- Access to Marine Parks for Petroleum
- Advisory Council to the Environmental Protection Authority (ACTEPA)
- Albany Region Plan
- Allocating Environmental Capacity
- Annual Report 1993/94
- Antarctic Ozone Hole — Update

### B

- Beenup Power Supply
- Biomedical Waste — Disposal
- Biomedical Waste — Amendment to Regulations to include Biomedical Wastes Incinerators
- Bold Park and Environs Land Use Structure Plan
- Budget — Environmental Protection Authority

### C

- Carnarvon Fascine Development
- Chincup Nature Reserve Gypsum Mining Proposal
- Cleaner Production Workshops 1994
- Clearing Proposal — Churchlands
- Clearing of Land — Mt Observation
- Clearing of 20 ha of Land for Pasture — West of Coolup
- Clearing of 1000 ha of Land near Jurien
- Clearing of 187 ha of Land for Agriculture — North Kukerin
- Cockburn Cement Ltd Shellsand Dredging
- Commonwealth Environment Protection Authority — Environmental Impact Assessment
- Construction of a Road across Vasse Estuary, Ford Road
- Contaminated Sites
- Coogee Redevelopment

### D

- Department of Planning and Urban Development — Referral and Implementation
- Dredging of Channel — Prawn Rock

### E

- East Perth Gas Works Site — Strategy for Clean up of Contaminated Site
- Eastern Corridor Major Roads Study
- Ellenbrook — Catchment Strategy
- Ellenbrook — Change to Environmental Conditions
- Environmental Guidelines for Planners
- Environmental Impact Assessment — Guidelines for Proponents
- Environmental Quality Objectives for the Southern Metropolitan Coastal Water Study
- Environmental Protection Authority — Assessments with Stringent Timelines
- Environmental Protection Authority discussion paper — Protecting the Marine Environment — a guide for Petroleum Industry
- Environmental Protection Authority Strategic Plan
- Environmental Protection Authority — Minutes and Records of Meetings
Environmental Protection Policy — Gnangara Mound
Environmental Protection Policy — Gnangara Mound Private Land
Environmental Protection Policy — Jandakot Mound
Environmental Protection Policy — Lakes and Swamps of the South-West Agricultural Zone
Environmental Protection Policy — Ozone Protection
Environmental Protection Policy — Perth Airshed
Environmental Protection Policy — Revised Draft Jandakot Mound Groundwater Policy 1993
Environmental Protection Policy — Swan and Canning Rivers
Environmental Protection Policy — Western Swamp Tortoise Habitat

Fluoride in the Swan Valley
Freedom of Information

G
Gnangara Mound Groundwater Resources
Goldfields Gas Pipeline
Government Boards and Committees — Review
Great Eastern Highway — Northam Bypass
Greenhouse Gas Audit
Guidelines

H
Harbour City Canal Development

I
Indemnity
Industrial Buffers
Industrial Buffers Strategy
Integrated Iron and Steel Facility, Compact Steel, East Rockingham
Intractable Waste Disposal Facility — Mt Walton
Iron ore export from Koolyanobbing through town of Esperance

J
Jandakot Airport — Environmental Impact Statement
Jet Ski (Deep Water Polo)

K
Kwinana Industrial Area Strategy

L
Lake Clifton — Catchment Strategy
Landfill Site and Waste Classification Criteria
Landfill Target — Progress Reports

M
Mandora Reserve (Anna Plains)
Mangles Bay — Marina
Memorandum of Understanding — Department of Minerals and Energy/EPA — risks and hazards associated with environmental impact assessment
Memorandum of Understanding — Minister for the Environment, Environmental Protection Authority and Department of Environmental Protection
Memorandum of Understanding and Planning Referral Guidelines
Metropolitan Region Scheme Amendment Footfalls
Metropolitan Region Scheme Amendment — North West Corridor (Alkimos—Eglinton)
Metropolitan Region Scheme Major Amendments
Metropolitan Region Scheme Major Amendment — East Wanneroo
Metropolitan Region Scheme South East Corridor — Major Amendment, Southern River
Metropolitan Region Scheme South West Corridor — Major Amendment
Mt Walton Intractable Waste Disposal facility
Murrayfield Airpark

N

NB Love Starches — Expansion — Effluent Disposal — South Coogee Plant
National Environmental Issues
National Strategy for Rangeland Management
Natural Resource Zones — South West Land Division Brochure
Naval Base Container Terminal Proposal
National Parks and Nature Conservation Authority Mining Referrals
North-East Corridor Amendment and Structure Plan

O

Off-Reserve Conservation and Land Degradation in the Wheatbelt Region

P

Pastoral Wool Industry Taskforce
Peat Mining Proposal — Lake Tamworth
Peel-Harvey — Change to Environmental Conditions
Fibburn Energy Project
Planning Legislation
Planning Legislation Amendment Bill 1994
Policy Initiatives — Interim List
Prescribed Burning Practices — Department of Conservation and Land Management
Prescribed Premises Review — Removal of abrasive blasting, fibreglass, concrete batching and cement product manufacturing industries

R

Regulations — Lead in Petrol
Regulations — Backventing for Petrol Stations
Regulations — Environmental Protection Amendment (No 2) 1993 — Works Approvals and Licences Fees
Regulations — Noise
Reid Highway Stages 3-5
Request for apology by EPA members in regard to content of part of EPA Bulletin 362
Reservoir Construction and Associated Pipework within Neerabup National Park, Wanneroo
Residential subdivision — Accurt Road, Canning Vale
Restaurant, motel, mini golf course, and service station, Wellard Road, Kwinana
Rezoning of land from urban deferred to urban — Egerton
Risk Criteria — Sensitive Developments (hospitals, schools etc)
Roe Highway Stage 3 from Welshpool Road to South Street
Rudall River National Park
Saline Rural Drainage
SECWA Gas Turbine Facility — Pinjar, and Air Quality
Silica Sand Mining, North of Kemerton
South-West Corridor Major Amendments — Land use changes affecting System 6 areas and lakes protected under the Lakes Environmental Protection Policy to urban, industrial, special uses, transportation purposes
South-West Corridor Stage B — changes in land use subject to Metropolitan Region Scheme Amendment
South West Inshore Trawl Fishery: Update of Trawling Impact Study
Southern Landfill South Cardup
Southern Metropolitan Coastal Water Study
Strategies for Reserve Implementation
System 6 — Implementation and Update
System 6 — Review of Red Book Implementation Criteria for Forest Recommendations
System 6 — Proposed Alteration of Boundary — MB, Snake Swamp, Landsdale
Tim’s Thicket — Modification to national park boundary, extension to existing wastewater treatment plant boundary, septage disposal site, quarry site
Towards Optimising Kwinana” — Review
Urban Bushland Strategy
Urban Development — Santa Maria Land
Use of 1080 to control feral goats
WA Water Quality Guidelines
WA Coastal Management Review — EPA submission
Waste Minimisation
Water Supply for Kemerton Industrial Park
Weedew Island Trawl — Shell hatchery
Western Mining Corporation/Kalgoorlie Nickel Smelter — Sulphur dioxide exceedances
Wetlands Position Paper
Wetlands — Kwinana Freeway Replacement Strategy
Wetland Replacement Strategies
Widespread Use of Red Mud — Peel-Harvey Coastal Plain Catchment
Wittenoom — Pima cotton proposal
Yandicoogina Iron Ore Mine — Section 46 draft assessment report
### EPA formal assessments completed in 1993-94

| A | Additional facilities for liquefied petroleum gas (LPG) extraction project within existing onshore treatment plant, Burrup Peninsula  
Additional facilities within onshore treatment plant, LPG extraction and export, Burrup Peninsula  
Additional tunnel kiln, White man Brick  
Application to mine and heap leach laterite gold deposit in 'C' class nature reserve 18584, Westonia  
Applications to extend Bow River Diamond Mine M80/228 and M80/109, Bow River |
|---|---|
| C | Change to environmental conditions extension of Busselton mineral sands operation  
Change to environmental conditions for Ellenbrook joint venture  
Change to environmental conditions for region recreation centre stage 1 boundary, Port Kennedy  
Change to environmental conditions for tailings treatment (Kalgoorlie) agreement, Poseidon Gold Ltd  
Change to environmental conditions for Tiwest pigment plant operations, Kwinana  
Change to environmental conditions Yandicoogina (Marillana) iron ore project  
Change to environmental conditions, liquid waste treatment plant, Wesfield, City of Armadale  
Clean up of contaminated site, McCabe Street, Mosman Park  
Clearing of 20 hectares of land for pasture, 10km west of Coolup (Mr C Rogers)  
Clearing of 197 hectares of land for agriculture, Williams Location 13895, North Kukerin  
Collie power station wastewater and ash disposal strategy  
Construction of new livestock saleyards at a suitable location between Upper Swan and Ellenbrook  
Continued use of existing Dalyellup residue disposal site, SCM Chemicals |
| D | Disposal by shaft entombment or trench burial a range of intractable wastes at the intractable waste facility, Mt Walton East |
| E | Ellenbrook subdivision change to environmental conditions (lots 46 and 47 to be managed as wildlife sanctuary)  
Exploration drilling in EPTP/2 Part 1 and Roller oilfield offshore, Onslow, change to environmental condition  
Exploration drilling programming within permit area T/P3  
Extension of mining operations on M80/112 and 80/113, Limestone Creek, Lissadell Station, Shire of Wyndham/East Kimberley |
| F | Fascine residential/recreational canal development, Carnarvon  
Foreshore reclamation, Mandurah townsite |
| G | Great Eastern Highway Northam Bypass Road, Northam |
| H | Harbour City Canal Estate amended proposal |
| K | Kanowna Belle Stage 2 project gold roaster to treat refractory ore, Kalgoorlie |
| L | Land use strategy for Bold Park and adjacent bushland |
Mandurah marina Lot 11 Old Coast Road, Mandurah
Marina Mangles Bay, Rockingham
Mining of agricultural gypsum from Lake Chinocup 'A' class nature reserve, Pingrup
Murrayfield airport, amended proposal

New proposal for 132kV transmission line, Manjimup power supply, Manjimup to Beenup via Palings and Coronation roads
New woodchip exploration application 20,000 tonnes Eucalypt

Perth to Bunbury Highway M8 to Bayside Road, Lake Clifton
Pilbara energy project, Port Hedland
Proposal to amend part of System 6 boundary M8 Lot 2 Snake Swamp, Landsdale
Public marina and boat launching facility, Dawesville Channel (east entrance)

Quarry 'Koobeja', 25 Mile Hill, Great Southern Highway

Reid Highway stage 5, Beechboro Road to Great Northern Highway, Middle Swan
Rezoning of land from urban deferred to urban, Egerton (adjacent to Ellenbrook)
Roe Highway stages 3-5 Welshpool Road to South Street, City of Canning
Rural subdivision, Swan Location 2703 Nisa Road, Pinjar

Short term (2-year) shell and dredging, Owen Anchorage Cockburn
Siting and control of dust and noise from iron ore to be exported from Esperance
Sodium cyanide debottlenecking, AGR Kwinana
Southern landfill project, South Cardup
Subdivision of industrial land, International Brick and Tile Pty Ltd, Bonner Drive, Malaga
Swan Portland Cement Ltd, quicklime plant and limestone quarry, Nowergup production capacity upgrade

Trial use of 1080 to control goats in WA

Upgrade and widen Brookton Highway Armadale, Brookton

Water catchment and dam development, Mt Hampton
Widespread use of red mud, Peel Harvey coastal plain catchment
Finalised informal assessments in 1993-94

The following informal assessments were delegated to the Department of Environmental Protection for finalisation:

A

Access road from proposed sand mining operation to proposed Coast Road between Jurien and Greenhead, Shire of Coorow
Access road Old Yanchep Road East to Lots 1969 and 1970 Lake Pinar
Additional poultry shed Lot 1757 corner Holmes and Lakey Streets, Southern River, Gosnells
Albany regional planning study including Town of Albany and Shires Albany, Denmark and Plantagenet. Albany residential expansion strategy to the year 2021
Amendment to District Planning Scheme No 2 rezoning rural to special rural Lots 80 and 81 Canning Location 289, Wattle Grove
Application for reserve for shingle extraction flood plain Ord River, Wyndham/East Kimberley Shire
Application to commence development of a lunch bar Lot 129/121 Kwinana Beach Road, Kwinana Beach
Approval to operate mobile thermal soil remediation unit
Automotive spray painting workshop in an existing building (Lot 219) 29 Kembla Way, Willetton, City of Canning

B

Baptist College heraldia area, Murdoch University campus
Boat ramp and parking area Richardson and McKay streets, Port Hedland
Bushland rezoned to residential between Churchlands Senior High School and Newman College
Botane installation for Kleenheat Gas, Greenbushes

C

Carbon stripping plant Como Engineers Lot 10 Russell Road, South Coogee
Change of fuel type from distillate to light fuel oil West Kalgoorlie gas turbine terminal
City Beach No 2 pumping station and pressure main, Montgomery Avenue
Clearing landfill parkland tree planting irrigation to pasture shed/workshop diesel fuel storage, Commercial Swamp and Nicholson Roads, Forrestdale
Commercial harvesting of seaweed (9 tonnes per day) between Windy Harbour and the Gardner River mouth
Commercial operation of five seater hovercraft HoverSpace Pty Ltd, Swan River
Community market garden Guntagg Manning Road and Centenary Avenue, Waterford, South Perth
Construct duplex on vacant block Lot 6 Hope Street, North Beach adjacent to Star Swamp A class reserve, Stirling
Construction and operation 12-16MW hydrogeneration plant SECWA Kununurra diversion dam, Lake Kununurra
Construction and operation of 33kV powerline within road reserve between Kununurra and Wyndham
Construction and operation of coal siding adjacent to existing railway north of Cape
Construction of causeway BHP from One East creek environmental development Nelson Point Operations, Port Hedland
Construction of dwelling Lot 637 Eighty Road, Baldwins
Construction of house Lot 659 Eighty Road, Baldwins
Construction of Karijini National Park link road between Marandoo access road and Mt Bruce, Ashburton Shire
Construction of Peel Tafe College Figgerts Road, Ravenswood
Construction of single residential dwelling Lot 595 Jarvis Road, Karnup (adjacent Stakehill Swamp)
Construction of two short stay holiday chalets Lot 2 Viveash Road, Swan View, Shire of Mundaring
Continuation of existing inert landfill operation Adelaide Street, Hazelmere
Conversion of land into soakage basin for control of water levels Yangebup and Bibra Lakes
Creation of reserves for extraction of rock and gravel Peron Peninsula, Shark Bay
Cutback face of existing mine and create waste dump over old mine tailings cutback of northern pit, Greenbushes townsite reserve
Day care centre the Cottage Hospice Bedbrook Place, Shenton Park
Decontamination and solidification of spent material at CSBP Kwinana
Development for passive and active recreation reserve CS1968 Big Swamp, 3km south of Bunbury
Development of (Prevelly Park) Granabup beach project, Shire of Augusta-Margaret River
Development of Glendalough open space stage 2, east of Jon Sanders Drive
Development of Stage 2 Part 1 of the Pinjar groundwater scheme and additions to the Wanneroo groundwater scheme
Disposal of septage on tree plantation approximately 85km north east of Albany, 'Cordinup'
Draft management plan Two Peoples Bay Nature Reserve, Albany
Draft structure plan (next to System 1 area Leeuwin Naturaliste area) between Meelup Bunkers Bay, Shire of Busselton
Dredging of the Hyde Park lakes
Drilling up to four production/appraisal wells Tamali-3 within existing production area, Varamus Island, 120km west of port of Dampier

Early Bird open pit gold mine next to New Celebration Gold Mine Hampton Location 50, 32km south of Kalgoorlie
EL 04/878/04/886 foreshore, sea bed and navigable waters King Sound, Shire of Derby-West Kimberley
EL 04/887 foreshore, sea bed and navigable waters King Sound, southwest of Long Island
EL 04/908 foreshore, sea bed and navigable waters King Sound, southwest of Derby
EL 08/698 Mineralogy Pty Ltd offshore area around Potter Island, Shire of Ashburton
EL 47/658, 17/659 and 47/660 on and offshore Nickol Bay West Pilbara, Delambre Island and reefs to be protected
EL 47/667 on and offshore Intercoast Island West Pilbara marine field, Dampier
EL 80/1750 offshore and onshore Deep Bay lower reaches King Edward River, Kalumburu Longini Landing
EL 80/1627 Deco Holdings Pty Ltd on and offshore Pelican Island, Joseph Bonaparte Gulf
EL 80/1751 and 80/1752 on and offshore Joseph Bonaparte Gulf, Shire of Wyndham-East Kimberley
EL 80/1757 Pentecost River Home Valley to Wyndham, Shire of Wyndham-East Kimberley
Emu farm Lot 39 Allen Road, Armadale
Emu farm Lot 804 Mandurah Road, Karrarup
Enhancement of Barragup Swamp (EPP lake), Murray Shire
Equestrian breeding and agistment centre Location 2696 Pinjar Road, Pinjar
Establishment and operation of new refuse disposal site Redmond, Albany
Establishment of caravan park, Halls Creek
Extensions to Rosehill public golf course, Location 8 and 17 West Parade, South Guildford

Firebreak maintenance of EPP lake Lot 47 Leslie Road, Wandi
Fish farm Lot 10 Gibbs Road, Nowergup

Genetically engineered insect resistant (IT) cotton seed release Deltapine Australia Ord River Irrigation area, Kununurra
Gold mine Aurora prospect Mining Lease 77/580 100km north of Southern Cross 4km south of Bungablin Hill
Golf driving range on reserve 30623 old rubbish tip site Ennis Avenue, Rockingham
Groundwater well licence irrigation of stonefruit and nut orchard Lot 41 Beattie Road, Glencoe Estate, Gingin
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<tr>
<td><strong>H</strong></td>
<td>Horticulture development (approximately 700ha) Swan Location 5447 Beenullah district north of Gingin. Hot house and shed extensions Lot 855 Prowse Road, Ludlow next to wetland under Lakes EPP.</td>
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<td><strong>I</strong></td>
<td>Importation of spent copper and zinc catalyst for trace element fertiliser granulation plant Coogee Chemicals, Rockingham Beach. Installation and operation of a 1770kW diesel power station Lot 579 corner Hill and Anderson streets, Laverton. Intensive piggy for 200 sows, 12 boars and 500 weaners, North Dandalup. Interim drain improvements 1993/94 Southern River to Lake road culvert Williams Road main drain.</td>
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<tr>
<td><strong>L</strong></td>
<td>Land management plan for Department of Defence Jindalee training area. Land use changes affecting Woodman Point wastewater treatment plant buffer, Lake Coogee and Market Garden Swamp. No 3. Logue seismic survey partly within five conservation reserves and Lake Indoon recreation reserve Woodvale Gas Field, north west of Eneabba. LPG installation for increase in fuel consumption, Albany Regional Hospital.</td>
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<td><strong>M</strong></td>
<td>Maintenance dredging for construction of rubble mound groyne Swan Yacht Club, Preston Point River bend. Maintenance dredging of Success and Parmelia Channels, Cockburn Sound. Management plan 1986 — draft review October 1995 Sandon Reserve (formerly Saltire Point Reserve), City of South Perth. Managers residence, 10 single units and support facilities for scuba diving training facility Lot 9 Wattleup Road, Wattleup. Market garden Lot 2300 Asher Road, Bullsbrook. Marron Farm Lot 436 Leipold Road, Mundijong. Metropolitan Region Scheme amendment 945/33A to rezone land bounded by Reid and Tonkin Highways, Marshall Road and Bennett Brook, Malaga-Beechboro. Metropolitan Region Scheme amendment 945/33A to rezone land west of Granlad Road and north of Great Eastern Highway, Ascot. Metropolitan Region Scheme amendment to rezone to mixed residential and light industry Brittie Ltd Lot 104 Hobbs Drive, Armadale. Metropolitan Region Scheme Major Amendment 932/33 north west corridor (Alkimos-Eglinton), City of Wanneroo. Metropolitan Region Scheme major amendment 925/33 the Foothills, Gosnells, Mundaring, Kalamunda and Swan Shires. Metropolitan Region Scheme major amendment 927/33 south east corridor, Canning Vale, Southern River. Metropolitan Region Scheme major amendment 988/33 south west corridor (stage A), Cockburn, Armadale. Kwinana and Serpentine-Jarrahdale. Metropolitan Region Scheme major amendment 948/33, East Wanneroo. Mundaring pumping station no 5 and pressure main and Mundaring collection sewer, Kwinross. Mining gypsum within ML245SA (Peaportes Lake McLeod Agreement) Dumper Salt Lake McLeod. Mining of diatomaceous earth ML 70/567 Reserve 27279 Magic Soil Pty Ltd, Lake Gnangara. ML 09/68 shell grit quarry L'Hirondel Bight, Shark Bay.</td>
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ML 51/439 for opening of Macquarie and Butlers Pits, Meekatharra Gold, 2km of Meekatharra
 Modifications to Farrington Road, Kardinya
 Modifications to provide additional capacity simulated natural gas facility, SECWA, Gordon Road, Mandurah
 Modified subdivision Lots 5, 7, 53 and Part Swan Location 3144 Adams Road, Matraville

Nine hole golf course and facilities, Lots 137, 241 and 1 Clayton Street, Bellevue
 Ninety horse stalls and ablation block, State Equestrian Centre, Lot 31 Cathedral Avenue, Briggaloon
 Notice of intent Luke's Pit, Mining project west of Meekatharra townsite within 400m of residences, Dominion Mining
 Nursery and garden centre, Lot 305 Hope Valley Road, Hope Valley

Offshore EL 80/1781 Weybridge Pty Ltd and Faustus Nominees Pty Ltd, Rocky Island, Shire of Wyndham-East Kimberley
 Offshore EP WA-9-MEP Nickel Bay area of the Pilbara (Savaryt Pty Ltd and Grumpy Investments Pty Ltd)
 On and offshore EL 80/1771, False Mouths of the Ord, Cambridge Gulf
 One hectare extension of existing gold mining in Jilbabji Nature Reserve, West Cheritons Gold Deposit ML77/42 in/
 around old Cheritons Mining Centre
 Ostrich breeding Lot 911 Young Road, Baldivis

Pilot study for alternate waste materials transport (iron ore slurry), Chandala
 Pipeline assembly area Lxcornth 35km south of Exmouth, Dawson Group
 Poultry farm rearing of Peking and Khaki Campbell ducks for meat production, Lot 43 Landgren Road, Casuarina
 Proposal to construct a shower-changeroom for WA Surf Riders Association south of the kiosk, Trigg Beach, City of Stirling
 Proposed caravan park (in addition to convenience store already approved), Lot 14 corner Rowley and Hopkinson roads, Wungong
 Proposed land use change from rural to special use and strata title development for the 'Oakland' residential cluster farm, Toodyay

Rabbit farm, Lot 102 Sayer Road, Hope Valley
 Redesign of subdivision for Lot 676 Lyon Road, Mandogalup
 Refloat tow/wreck of trawler Lady Joyous IV (two closest areas), Unnie Bank, west of Shark Bay or Elbow Shoals on eastern boundary
 Refuse disposal site approximately 1.5km from Witchcliffe townsite, Shire of Augusta-Margaret River
 Refuse disposal site part state forest No 20, Shire of Bridgetown-Greenbushes
 Remainder of land use changes (not included within proposal subject to PER) which will be reflected by the Major Metropolitan Region Scheme Amendment for South West Corridor (Stage II), Kwinana-Mandurah
 Removal of peat and clay material and refill with clean fill, Lot 768 Branch Circus, Jandakot
 Repair work to BHP ship 'Iron Shortland' while moored near Cockburn Road, South Coogee
 Replacement of existing underground fuel storage tank south of Perth Yacht Club Coffee Point, Applecross
 Residential subdivision public open space and drainage part Lots 33, 34 and 35 Garden Road and Lot 1 Troode Street, Spearwood
 Retail garden centre Lot 3 Nicholson Road, Forrestdale
 Rezoning for urban development portion of Lots 433, 9, 50 Part 1 and 10 Hammond Road and Kemp Road, Yangebup
 Roadhouse chalets and truck storage compound, Lot 7 and Part 1 Stirling Crescent, I hazelmere
Sand extraction and inert landfill in district open space Marmion Avenue 0.5km south of Burns Beach Road, Iluka Sawmill Lot 2 (formerly portion of Lot 99) Lakes Road, Hazeldean

Second relocation of Collie River south branch to permit further mining within Western Collieries existing operations, Collie Seismic survey TP6 around Serrurier Island located approximately 60km NE of Exmouth and 2.5km WNW of Onslow Sewage pumping station and below ground overflow storage emergency overflow and pressure main Dodd Street, Hamilton Hill

Sewer alignment along Brixton Street within road reserve Brixton Street, Kenwick

Sewerage reticulation area Balclutha 15s, 15c and 2v and Woodlands 9f and pumping station and pressure main Short stay accommodation (caravan park) Victoria Location 10250 Howard Street, Nambula

Short stay resort development with 94 residential units Lot 343 Panorama Drive, Preston Beach

Small sand mining operation ML 77/598, 75km east of Hyden

Subdivision for ice-skating rink Lot 14 Progress Drive, Bibra Lake

Subdivision to rezone from rural to residential A Lots 125, 126, 127 Part 4 and Part 47 corner McLean and Hughes roads, Canning Vale

Survivability tests of HMAS Derwent at Munitions Buoy (off Garden Island) and disposal of at sea (area to be decided)

Temporary pump station and emergency overflow Tonkin Business Park Lots 107 and 108 Alice Street, Bassendean

Temporary sewage pump station Olive Grove, Guildford

Ten year extension of existing clay excavation Lots 166, 52 Part 136 and Part 137 Toodyay Road, Gidgegannup

Town Planning Scheme 1A amendment 211 change to planning conditions at John Wood, Lake Clifton, Mandurah

Town Planning Scheme 2 Amendment 37 to rezone Murdoch Location 161 Denham/Hamelin Road, Shire of Shark Bay

Town Planning Scheme 6 Amendment 8 Farfields special rural zone district zoning scheme, Dardanup

Town Planning Scheme amendment 95 rezone portion lot 100 Forrest Road, Armadale from rural deferred to special use travelers service centre/service station

Town Planning Scheme No 5 Amendment No 29 rezoning from rural 1 to special rural Swan Location 1352 Lots 7, 9, 10, 11 and 14 Wandena Road, Shire of Chittering

Transfer of groundwater licence for turf farm Lot 10 Sawpit Road, South Bullock Brook

Transport by road of PCBs for destruction from Welshpool to Queensland

Transport of 70,000 tonnes of iron ore fines from Nelson Point to Pinjarre Island

Turf farm Lot 2 Coast Road Beechboro

Turf farm Lot 28 Railway Parade, Upper Swan

Upgrade of water treatment plant Australind water supply

Upgrading of site for automotive warehouse and battery build room GNB battery technologies 10 Cleveland Street, Dianella

Use of old tyre casings for stock fencing Ningaloo Location 4108, Beacon

Used tyre disposal site J W Cross & Sons Lot 43 Stanley Road, Kemerton

Wanneroo Town Planning Scheme 1 Amendment 634 rezoning rural to urban Swan Location 5971 Dundee Road, Wanneroo

Well licence 4 hectare watermelons Lot 8 Harris Road, West Gingin

Yabbie production in freshwater lake Kent Location 1525 south side of Swamp Road, 'Coromandel' Gairdner via Jerramungup
### EPA Reports released in 1993-94

Publications released by the Environmental Protection Authority and Department of Environmental Protection 1993-94:

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<td><strong>Clearing of 20ha of land for pasture 16km west of Coolup — Shire of Murray.</strong></td>
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<td>12 July 1993.</td>
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<td><strong>Clearing of 197ha of land for agriculture — Williams location 13895 North Kukerin.</strong></td>
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<td><strong>Additional tunnel kiln — Whiteman Brick.</strong></td>
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<td><strong>Redevelopment of Mandurah Marina, lot 11, Old Coast Road, Mandurah.</strong></td>
<td>Report and recommendations of the Environmental Protection Authority</td>
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<td><strong>Mangles Bay Marina.</strong></td>
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<td><strong>Additional facilities for liquefied petroleum gas project within existing onshore treatment plant, Burrup Peninsula.</strong></td>
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<td>Report and recommendations of the Environmental Protection Authority</td>
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<td><strong>Albany Region Plan.</strong></td>
<td>A submission by the Environmental Protection Authority on the document released for public comment by the Department of Planning and Urban Development</td>
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<td><strong>Proposed upgrade and widening of Brookton Highway (Armadale to Brookton).</strong></td>
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<td><strong>Marina and boat launching facility — Dawesville channel (east entrance).</strong></td>
<td>Report and recommendations of the Environmental Protection Authority</td>
<td>26 August 1993.</td>
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<td>700</td>
<td>Poseidon Bow River diamond mines proposal to extend mining into Beefwood Creek (M80/109) and portion of mining lease M80/288, East Kimberleys. Report and recommendation of the Environmental Protection Authority. Released 2 September 1993.</td>
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<td>Southern landfill project, South Cardup. Report and recommendation of the Environmental Protection Authority. Released 16 September 1993.</td>
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<td>Proposal to continue using the existing SCM solid residue disposal site at Dalyellup, beyond March 1994. Report and recommendation of the Environmental Protection Authority. Released 8 October 1993.</td>
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<td>Proposed 132kV transmission line, Manjimup to Beenup mineral sands mine. Report and recommendations of the Environmental Protection Authority. Released 14 October 1993.</td>
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<td>Metropolitan region scheme amendment no. 925/33 — the Foothills. A submission by the Environmental Protection Authority on the document released for review by the State Planning Commission. Released 28 October 1993.</td>
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<td>Gold roaster to treat refractory ore, Kanowna Belle Mine, stage two, 18km north-east of Kalgoorlie. Report and recommendations of the Environmental Protection Authority. Released 28 October 1993.</td>
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<td>Metropolitan region scheme major amendment no. 927/33 — Canning Vale — Southern River area. A submission by the Environmental Protection Authority on the document released for review by the State Planning Commission. Released 11 November 1993.</td>
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<td>Water catchment and dam development, Mt Hampton south of Southern Cross. Report and recommendations of the Environmental Protection Authority. Released 11 November 1993.</td>
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<td>Disposal by shaft entombment or trench burial of a range of intractable wastes at the intractable waste disposal facility, Mt Walton east. Report and recommendations of the Environmental Protection Authority. Released 9 December 1993.</td>
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