



A BIBLIOGRAPHY OF PUBLISHED REPORTS ON GROUNDWATER IN WESTERN AUSTRALIA



HYDROGEOLOGICAL RECORD SERIES

WATER AND RIVERS COMMISSION REPORT HG 1
1999



WATER AND RIVERS
COMMISSION

A BIBLIOGRAPHY OF PUBLISHED REPORTS
ON GROUNDWATER IN WESTERN AUSTRALIA

by

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Water and Rivers Commission
Resource Investigations Division

WATER AND RIVERS COMMISSION
HYDROGEOLOGICAL RECORD SERIES

REPORT HG 1

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Disclaimer

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Recommended Reference

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Introduction

Background

Groundwater is the most reliable and readily available source of water throughout much of Western Australia. It has been essential to the development of the State and currently constitutes about 45% of all water used. Perth's water supply is the single largest user of groundwater in the State. Groundwater constitutes 40% of the total metropolitan water usage (255GL/yr) and is expected to increase to 50% by the year 2021 (Stokes et al., 1996). In addition to this, groundwater is the main source of water supply for about 90 towns, a number of small communities, and is extensively used within the agricultural, pastoral, mining and construction industries.

The use of groundwater has caused local impact on wetlands, minor seawater intrusion, and limited lowering of pressure in some confined aquifers. In the southwestern part of the State, more widespread effects on groundwater systems have been caused by changes in landuse, principally clearing of bushland for agriculture and urbanisation. These have changed the water balance and resulted in rising watertable levels that have led to land and stream salinisation and increased water logging (Allen, 1997). The need to protect these groundwater resources has resulted in a greater awareness of groundwater in landuse planning and environmental management.

Reports by the Geological Survey of Western Australia (GSWA) have in the past served as the major source of information on groundwater in Western Australia, and have been listed in previous GSWA bibliographies (Maitland, 1898, 1916; Smith, 1992, 1993) and catalogues (Lord, 1964; Playford, 1987; GSWA, 1991). Titles have also been listed in: GSWA Annual Reports between 1945 to 1980; and first GSWA Record each year from 1982 to 1997, excluding 1984. The Water and Rivers Commission (WRC) is now the custodian for much of this information.

Published reports relating to groundwater have been compiled and listed in a database that is updated regularly. This report is the output from that database and has been compiled allowing specific references to be accessed using authors, keywords, and map sheet indexes.

Publications

This bibliography lists 1947 references on groundwater in Western Australia to June 1998. The bibliography supplements two previous GSWA bibliographies with groundwater reports published since 1992. The first GSWA bibliography (Smith, 1992) covers reports by staff of the GSWA up to 1992, and the second (Smith, 1993) covers reports by non-GSWA authors up to 1992. Until 1996, GSWA was the major state government organisation responsible for exploring and reporting on the groundwater resources in the State. In 1996, the Hydrogeology and Groundwater Resources Branch from the GSWA, Water Resources Division from the Water Authority, and Waterways Commission were amalgamated to form WRC. Since 1996, WRC has produced the majority of government reports on groundwater in Western Australia. Unpublished government reports from the Public Works Department (PWD), Water Corporation of Western Australia (WCWA) and WRC are not included in this bibliography but are available for public perusal from the relevant agency.

In addition to government publications, there are conference publications, journal articles and videos. The various conference proceedings (in chronological order) and scientific journals containing reports on groundwater in Western Australia are listed in Tables 1 and 3. Although extensive, this list is not complete. Published reports that are only of historic interest, and others that contain only minor groundwater information such as some Environmental Protection Authority (EPA) Bulletins, have not been included.

Bibliographic database

Reference format

All references in the Bibliography have been set out in the standard GSWA format (Forbes, 1998), with keywords, as depicted below.

- 405 COMMANDER, D. P., FIFIELD, L. K., THORPE, P. M., DAVIE, R. F., BIRD, J. R., and TURNER, J. V., 1994, Chlorine-36 and carbon-14 measurements on hypersaline groundwater in Tertiary



palaeochannels near Kalgoorlie, Western Australia: Western Australia Geological Survey, Professional Papers, Report 37, p. 53–60. Yilgarn–Goldfields Province, groundwater quality, salinity, groundwater recharge, mining, Kalgoorlie, SH5109.

Keywords

The *Geographic and subject index* and *Map sheet reference index* contain all the keywords assigned to the references. The keywords appear in the following specific order after each reference in the bibliography:

The first category of keywords contains principal geographic keywords from the names of the 33 sedimentary basins and fractured-rock provinces (Fig. 1) outlined on the Hydrogeological Map of Western Australia (Commander, 1989). If the report involves the whole State, or more than six of the areas, no keyword from this category is assigned. The primary geographic keyword, *Western Australia*, was not included for any of the references as it is a prerequisite for inclusion in the bibliography.

The second keyword category consists of a single subject keyword describing the subject or principal focus of the report. Subject keywords are from the Australian AESIS thesaurus (AESIS, 1987). The broader subject keywords *hydrogeology* and *groundwater* are not used as they are prerequisites for inclusion in the bibliography. According to AESIS (1987) keyword *ground water* is split, but

accepted usage of the word is now *groundwater*, and therefore has been included in the keywords as one word (e.g. *groundwater quality*). The broad composition of the bibliography is indicated by the frequency of use of the principal subject keywords (Table 4).

In the third keyword category, up to four further secondary subject keywords were allocated to complete the subject index.

The fourth keyword category contains up to five town or locality names relevant to the report. The localities are listed in the State gazetteer (Department of Mines, 1987) and usually appear in the report title.

The fifth keyword category comprises the international indices of 1:250 000 map sheet areas (Fig. 1). The unbroken six-character code is standard usage for Australian geoscience information (Gerdes and Smith, 1990). No keyword from this category is assigned if the report involves more than six of the areas (or the whole basin, province or state).

Availability of reports

Most of the publications are available in the State Library or in the libraries at Commonwealth Scientific and Industrial Research Organisation, Agriculture Western Australia, Environmental Protection Authority, Geological Survey of Western Australia, the University of Western Australia, Water Corporation of Western Australia, and Water and Rivers Commission.



Table 1. Conferences referred to in this report

Order—publication year, title, (**organiser abbreviation*/publisher**), venue, (year held, if earlier than publication)

* Abbreviations of organisers are listed in Table 2.

- | | |
|---|---|
| 1912 Interstate Conference on Artesian Water—Preliminary Report, May, 1912, Sydney | 1976 International Geological Congress XXV, Abstracts, Sydney |
| 1914 Report of the Second Interstate Conference on Artesian Water 1914, Brisbane | 1976 Land Management and Water Quality—A Seminar on Current Research into the Effects of Land Use on Stream Salinity and Turbidity in South Western Australia, DCE , Bulletin 17, Perth |
| 1922 Report of the Third Interstate Conference on Artesian Water, Government Printer , Adelaide, 1921 | 1976 Watershed Management on Range and Forest Lands—Proceedings of the Fifth Workshop of the United States/Australia Rangelands Panel, Boise, Idaho, June 15–22, 1975, Utah Water Research Laboratory, Utah State University , Boise, 1975 |
| 1925 Report of the Fourth Interstate Conference on Artesian Water 1924, Perth | 1976 Workshop on Land Use and Stream Salinity to be held at the Commonwealth Scientific and Industrial Research Organisation, Seminar Room, Floreat Park, Western Australia, DCE, CSIRO and PWD , Floreat Park |
| 1928 Report of the Eighteenth Meeting of the Australian Association for the Advancement of Science (Australia and New Zealand), Western Australian Meeting, Perth, August 1926, ANZAAS , Perth, 1926 | 1977 A Seminar on Irrigated Agriculture on the Coastal Plain—Future Water Requirements and Alternatives to be held at Harvey, July 19–20, 1977, UWA Extension Service , Harvey |
| 1970 Symposium on Foundations on Interbedded Sands: CSIRO , Perth | 1977 Effects of Urbanization and Industrialization on the Hydrological Regime and on Water Quality, UNESCO , Amsterdam |
| 1972 International Geological Congress, 24th, Section II—Hydrogeology, IGC , Montreal | 1977 Plant Response to Salinity and Water Stress, Association for Scientific Cooperation in Asia , Seminar, Mildura |
| 1973 Annual Engineering Conference—Perth, 9–13 April, 1973, IEAust , Perth | 1977 Proceedings of a Conference of the Institution of Engineers Australia and the Australian Institute of Health Surveyors, IEAust |
| 1973 Hydrology Symposium, 1973—Perth—August 8–11, IEAust , National Committee on Hydrology, National Conference Publication no. 73/3, Perth | 1977 Soil Factors in Crop Production in a Semi-arid Environment, University of Queensland Press , Saint Lucia |
| 1973 Science, Development and the Environment, Abstracts, 45th ANZAAS Congress, ANZAAS , Perth | 1977 United Nations Water Conference, United Nations , Mar del Plata, Argentina, |
| 1974 Conference on Computers in Engineering, IEAust , National Conference Publication no. 74/1, Sydney | 1978 Modelling Hydrologic Processes, Water Resource Publications , Proceedings of Fort Collins Third International Hydrology Symposium on Theoretical and Applied Hydrology, Fort Collins, Colorado, 1977 |
| 1975 Water Requirements for Agriculture, Industry and Urban Supply for a Metropolis of Two Million in the south west of Western Australia, AIAS and IEAust , Perth, 1974 | |
| 1976 47th ANZAAS Congress—Abstracts, University of Tasmania, v. 1, Section 3 | |
| 1976 Design and Construction of Tunnels and Shafts—Papers presented at the 2nd Australian Conference on Tunnelling, AusIMM for the Australian Tunnelling Association , Melbourne | |
| 1976 Groundwater Resources of the Swan Coastal Plain, EPA and CSIRO , Perth, 1975 | |



- 1978 Proceedings 12th Symposium Remote Sensing of the Environment, Manila 1978, **Environmental Research Institute of Michigan**, Manila
- 1978 Proceedings of the Australian Water Well Association National Conference, Perth, **Australian Water Well Association**, Perth
- 1978 Proceedings of the Subcommittee on Salt Affected Soils, 11th International Soil Science Society Congress, Edmonton, **International Soil Science Society**
- 1978 Proceedings of the Water Planning Workshop 1978, **AWRC**, Melbourne
- 1978 Semi-Arid Water Seminar, **WRF**, Kalgoorlie
- 1979 Agriculture and the Environment in Western Australia, **WAIT**, Bentley
- 1979 Diamond Jubilee Conference, Perth, 1979—Conference Papers, **IEAust**, Perth
- 1979 Hydrology and Water Resources Symposium Perth 1979, **IEAust**, National Conference Publication no. 79/10, Perth
- 1979 Perth—The Impact of Growth, **IEAust**, Conference Proceedings
- 1979 Proceedings of the Eighth Federal Convention AWWA, **AWWA**, Gold Coast, Queensland
- 1979 Proceedings of the Symposium on Land and Water Resources of Australia, **Australian Academy of Technological Sciences**, Melbourne, 1978
- 1979 Seminar Papers—Land Use Planning—Recent Advances—Prospect 2000 Conference, **UWA and AIAS**, Perth
- 1979 The Agricultural Industry and its Effects on Water Quality, **Progress in Technology**, Hamilton, New Zealand
- 1979 Water Resources and Land Management Issues in the Darling Range—Hydrology and Water Resources Symposium, Perth, 10–12 September, 1979, Study Tour, **IEAust**, Perth
- 1980 Biogeochemistry of Ancient and Modern Environments, **Australian Academy of Science and Springer-Verlag**
- 1980 Farming in the Irrigation Areas of the South-West of Western Australia, **WADA**, Bunbury
- 1980 International Geological Congress XXVI, Abstracts, Paris
- 1980 International Symposium on Salt Affected Soils, **New Delhi, National Printers**, Symposium Papers, Karnal, India, 1980, (v. 1)
- 1981 Australian Water and Wastewater Association—Technical Papers to be presented at the Ninth Federal Convention, Perth, April 1981, **AWWA**, Perth
- 1981 Challenges Facing the Family Farm, **WADA**, Seminar Proceedings, Cunderdin, August 1980
- 1981 Energy Resources of the Pacific Region, **American Association of Petroleum Geologists**, Tulsa
- 1981 Fifth Geological Convention, Abstracts, **GSA**, Perth
- 1981 Groundwater Resources of the Swan Coastal Plain (1981), **CSIRO and WRF**, Perth
- 1981 International Symposium on Salt Affected Soils, **New Delhi, National Printers**, Symposium Papers, Karnal, India, 1980, (v. 2)
- 1981 Land and Stream Salinity Seminar—Western Australia, November 1980, **PWD**, Perth, 1980
- 1981 Proceedings of the Groundwater Pollution Conference, **AWRC**, Perth, 1979
- 1981 Proceedings of the Groundwater Recharge Conference 1980, **AWRC**, Conference Series no. 3, Townsville, 1980
- 1982 Papers of the Groundwater in Fractured Rock Conference 1982, **AWRC**, Canberra
- 1982 Sand, Salt and Farming—A Land Use Review, **WADA**, Esperance, Seminar Proceedings
- 1982 The First National Symposium on Forest Hydrology, Melbourne, 11–13 May 1982—Preprints of Papers, **IEAust**, National Conference Publication no. 82/6, Melbourne
- 1982 Trees in the Rural Landscape—Proceedings of a Conference held in Perth, October, 1981, **Western Australia Forests Department**, Perth, 1981
- 1983 Ground Water in Water Resources Planning, **IAHS**, Symposium Proceedings, Germany, **IAHS** Publication no. 142, v. 1



- 1983 Hydrology and Water Resources Symposium, **IEAust**, Hobart, National Conference Publication 83/13
- 1983 Papers of the International Conference on Groundwater and Man, **AWRC**, Sydney
- 1983 Peel-Harvey Symposium: **DCE**, Perth, preprints only, published 1984 as Bulletin 160
- 1983 Resources and Responsibility, **ANZAAS**, 53rd ANZAAS Congress, Perth
- 1983 Water Quality—Its Significance in Western Australia, **WRF**, Seminar, Perth
- 1984 12th International Conference, **International Cartographic Association**, Perth
- 1984 Fourth Australia–New Zealand Conference on Geomechanics 'Geomechanics—Interaction', Perth, Preprints of Papers, **IEAust**, National Conference Publication no. 84/2, Perth
- 1984 Gold-mining, Metallurgy and Geology—Australasian Institute of Mining and Metallurgy, Regional Conference, Kalgoorlie, 1984, **AusIMM**, Symposia Series, no. 39, Kalgoorlie
- 1984 Hydrogeochemical Balances of Freshwater Systems, **IAHS**, Proceedings of the International Symposium, Special Publication no. 150
- 1984 Landsat 84—Proceedings of the Third Australasian Remote Sensing Conference, Gold Coast, Queensland, 21–25 May 1984, **Organizing Committee Landsat 84**, Gold Coast
- 1984 National Conference Publication no. 84/2, **IEAust**, Perth
- 1984 National Soils Conference, Brisbane, Australia 13–18 May, 1984, **Australian Society of Soil Science**, Proceedings
- 1984 Potential for Management of the Peel-Harvey Estuary, **DCE**, Perth, 1983, Bulletin 160 (see unpublished preprints 1983)
- 1984 Salinity in Watercourses and Reservoirs—Proceedings of the 1983 International Symposium on State-of-the-Art Control of Salinity, July 13–15, 1983, Salt Lake City, Utah, **Butterworth Publishers**, (An Ann Arbor Science Book)
- 1984 Satellite Remote Sensing Review and Preview, **Remote Sensing Society of the U.K.**, Proceedings, 10th International Conference on Satellite Remote Sensing, Reading, U.K.
- 1984 Seventh Australian Geological Convention, Abstract Series no. 12, **GSA**, Sydney
- 1985 Hydrogeological Mapping in Asia and the Pacific Region—Proceedings of the ESCAP-RMRDC Workshop, Bandung, 1983, International Contributions to Hydrogeology, v. 7, **IAH**, Bandung, 1983
- 1985 Hydrogeology in the Service of Man, 18th Congress, **IAH**, Cambridge
- 1985 Peel-Harvey estuarine system study—Management of the estuary, **DCE** (see Bulletin 195), Perth
- 1985 Preprinted Proceedings, 21st Congress, International Association for Hydraulic Research, Melbourne, 19–23 August 1985, v. 1, Theme A—Subsurface Flow, Pollutant Transport, and Salinity, **IEAust**, National Conference Publication 85/13, Melbourne
- 1985 Preprints of Technical Papers (Sup. Papers) for the I.C.I.D. Fifth Afro-Asian Regional Conference, Townsville
- 1985 Remote Sensing for Exploration Geology, **Environmental Research Institute of Michigan**, Proceedings of International Symposium on Remote Sensing of the Environment, Fourth thematic Conference, San Francisco
- 1985 The Production, Promotion and Marketing of Western Australian Table Grapes, **Rural and Allied Industries Council**, Perth
- 1985 Water Quality and Land Use, **AWWA**, Perth
- 1986 83 Years, **Western Australian School of Mines**, Kalgoorlie, 1985
- 1986 Hydrology and Water Resources Symposium 1986, River Basin Management, Preprints, National Conference Publication no. 86/13, **IEAust**, Brisbane



- 1986 Monitoring to Detect Changes in Water Quality, **IAHS**, Proceedings of a Symposium held during the 2nd Scientific Assembly of the IAHS at Budapest, Monitoring to Detect Changes in Water Series, Publication no. 157
- 1986 Water Conservation Through Good Design—A guide for planners, architects, engineers, landscape architects and land managers, **AWRC**, Perth, 1986
- 1986 Water Quality Modelling in the Inland Natural Environment— Proceedings of the International BHRA Conference, **BHRA**, Bournemouth, UK
- 1987 Groundwater Allocation Workshop Sydney, October 27–28, 1987, **AWRC**, Preprints of State Contributions, Sydney
- 1987 Hydrology and Salinity in the Collie River Basin, Western Australia, **Journal of Hydrology**, v. 94, Special Issue, no. 1, 2, Proceedings of the Symposium on Catchment Salinity (1986, Commonwealth Scientific and Industrial Research Organisation)
- 1987 Measurement of Soil and Plant Water Status, **Utah State University**, Utah, v. 1—Soils
- 1987 Proceedings of the International Conference on Groundwater Systems under Stress, **AWRC**, Brisbane, 1986
- 1987 Proceedings of the National Workshop on Urban Water Demand, **WAWRC and AWRC**, Perth April 29–May 1 1986, Conference Series no. 14 (also preprints 1986)
- 1987 Proceedings of Workshop on Estimation of Natural Groundwater Recharge, **D. Reidel Publishing Company**
- 1987 SLEADS (Salt Lakes, Evaporites and Aeolian DepositS) Workshop 87—Salt Lakes in Arid Australia—Arid-zone hydrology, geochemistry, stratigraphy and palaeoenvironments, 30–31 March 1987, Canberra, Abstracts, **ANU**, Canberra
- 1988 Bicentennial Gold 88, Extended Abstracts, Poster Programme, volume 1, **GSA**, Abstracts no. 23
- 1988 Environmental Workshop—1988, **Australia Mining Industry Council**, Workshop Proceedings, Darwin
- 1988 Greenhouse—Planning for Climate Change, **CSIRO**, Papers from Greenhouse 87 Conference, Melbourne
- 1988 Growing Trees in the South West Region, **Western Australia South West Development Authority**
- 1988 Management of Western Australian Soils— Proceedings of a Conference at Merredin, Western Australia: **Australian Soil Science Society**, Conference Proceedings, Merredin
- 1988 Planning and Management for Wetland Conservation Conference—Wetlands in Crisis— What can Local Government do?, **Murdoch University and EPA**, Abstracts, Perth
- 1988 Proceedings of the 3rd International Mine Water Congress, **IEAust**, Melbourne
- 1988 Proceedings of the AWRC Workshop on Groundwater Allocation, **AWRC**, Conference Series no. 15, Sydney, 1987
- 1988 Proceedings of the National Workshop on Planning and Management of Water Resource Systems—Risk and Reliability, **AWRC**, Conference Series no. 17, Adelaide, 1988
- 1988 Proceedings Symposium on Global Change, **Australia Academy of Science**, Canberra
- 1988 SLEADS (Salt Lakes, Evaporites and Aeolian DepositS) Conference 88—Salt Lakes in Arid Australia—Arid-zone hydrology, geochemistry, biology, stratigraphy and palaeoenvironments— Australian research with global comparisons, 8–16 August 1988, Lake Eyre–Arkaroola–Lake Frome, South Australia, Abstracts, **ANU**, Lake Eyre–Arkaroola–Lake Frome
- 1988 Soils Down Under—Proceedings Jerramungup Soil Conservation District and University of Western Australia Symposium, **UWA**
- 1988 The Second International Conference on Prospecting in Arid Terrain, **AusIMM**, Perth
- 1988 The Swan Coastal Plain in Crisis—Agriculture and the Environment, **AIAS**, Perth, 1987, Occasional Publication no. 10, 1987



- 1989 Contaminant Transport in Groundwater—Proceedings of the International Conference on Contaminants in Groundwater, Stuttgart, 4–6 April, 1989, **A. A. Balkema, Rotterdam**, Stuttgart
- 1989 Environmental Practice—Sustainable Development, **Environment Institute of Australia**, Second National Conference, Melbourne
- 1989 Geoscience Mapping Towards the 21st Century, **BMR**, Canberra
- 1989 Greenhouse 88—Planning for Climatic Change—Western Australian Conference Proceedings, **WAWRC**, Perth, 3–5/11/88, Publication no. WRC 10/89
- 1989 Groundwater Economics, **United Nations**, Barcelona
- 1989 Groundwater Exploration and Development in Crystalline Basement Aquifers, **Commonwealth Science Council**, Harare, 1987
- 1989 Groundwater Recharge, **CSIRO**, Mandurah, 1987
- 1989 Hydrology and Water Resources Symposium 1989, 'Comparisons in Austral Hydrology', University of Canterbury, Christchurch, New Zealand, 28–30 November 1989, Preprints of Papers, **IEAust**, National Conference Publication no. 89/19, Canterbury
- 1989 Memoirs of the International Symposium on Hydrogeological Maps as Tools for Economic and Social Development, **IAH**, Hannover
- 1989 Proceedings of the IAHS Symposium on Groundwater Management, Quantity and Quality 1989, **IAHS**, Publication no. 188
- 1989 Regional Characterization of Water Quality—Proceedings of the Baltimore Symposium, May 1989, **IAHS**, Publication no. 182, Baltimore
- 1989 Soil Management for Sustainable Agriculture, **Department of Agriculture, Background Papers from Workshop organized by the Research Review Committee of the Grains Section of the Western Australian Farmers Federation**, Perth, 1987
- 1989 Swan Coastal Plain Groundwater Management Conference—Proceedings, **WAWRC**, Perth, 1988
- 1989 Trees—Everybody Profits—The Potential for Trees on Farms and in the Rural Landscape, **Western Australian Branch of the Australian Institute of Agricultural Science**, Proceedings of a Seminar, December 1989, Perth, Occasional Publication no. 45
- 1989 Wetlands in Crisis—What can Local Government do?, Murdoch University, Conference Papers, **EPA**, Bulletin 372, Perth, 1988
- 1990 Dieback—Prevention and Management, **Western Australian Chamber of Mines and Energy**, Bunbury
- 1990 Groundwater Monitoring and Management, **IAHS**, Publication no. 173, Berlin, 1987
- 1990 Horticulture and the Environment—Proceedings of a Seminar, Mandurah, **WADA**, Miscellaneous Publication no. 20/90, Mandurah
- 1990 Investigations in Geophysics, no. 5, Geotechnical and Environmental Geophysics, v. 2, **Society of Exploration Geophysicists**, Tulsa, Oklahoma
- 1990 Proceedings of a Technical Forum on Dryland Salinity in South Australia, **South Australia Department of Agriculture**, Technical Report no. 163, Adelaide
- 1990 Proceedings of the 5th Australian Agronomy Conference, **Australian Society of Agronomy**, (Busselton, Katanning, Merredin, and) Perth, postponed from 1989 to 1990
- 1990 Proceedings of the Dryland Salinity Management Workshop, **Australian Soil Conservation Society**, Fifth Conference, Perth
- 1990 The Natural Features of Lake Gregory—A Preliminary Review, **CALM**, Proceedings of a Workshop, Woodvale, 1989, (CALM Occasional Paper 2/90)
- 1990 Timber Production in Land Management, **Australian Forest Development Institute**, Biennial Conference Proceedings, Bunbury
- 1991 8th ASEG/GSA Conference, **ASEG**, Exploration Geophysics, Sydney
- 1991 Arid Zone Water Conference, **BMR**, Alice Springs



- 1991 Conference Proceedings '50 Years of Ord River Irrigation—Review and Future Perspectives Conference' Kununurra, November 1991, **Minister for North West, Agriculture, Water Resources, Ord Development Council**, Kununurra
- 1991 From Cradle to Grave—Trends in Hazardous Waste Management, Honolulu
- 1991 In-situ Bioreclamation and Contaminated Site Remediation, **Butterworth-Heinemann**, San Diego
- 1991 International Hydrology and Water Resources Symposium 1991—Challenges for Sustainable Development, Preprints, 3 vols, **IEAust**, Perth
- 1991 International Hydrology and Water Resources Symposium 1991—Challenges for Sustainable Development, Workshop 4—Dryland Salinisation and Integrated Surface and Groundwater Management, **IEAust**, Perth
- 1991 Proceedings of the International Conference on Groundwater in Large Sedimentary Basins, **AWRC**, Perth, 1990
- 1991 Soil Science and the Environment, **Australian Soil Science Society**, Fifth Conference, Albany, 1990
- 1991 The role of trees in land and stream salinity control in Western Australia, **National Agroforestry Working Group and National Farmers Federation**, National Conference, Albury
- 1991 The Water Industry—Meeting the Challenge, **AWWA**, 14th Federal Convention, Perth, 17–22 March 1991, Technical Papers
- 1992 Fourth Australian Environmental Isotope Conference—Stable Isotopes, Radiogenic Isotopes, and Cosmogenic Isotopes in the Natural Environment, Abstract Volume, **ANU**, Canberra
- 1992 Greening Australia—Proceedings of Conference on Vegetation and Water Management, **Greening Australia Limited**, Canberra
- 1992 Dryland Salinity Conference, **New South Wales Department of Conservation and Land Management**, Yass
- 1992 International Symposium on Urban Stormwater Management (Proceedings), **IEAust**, Sydney
- 1992 Mineral Exploration and Mining Geology in the Eastern Goldfields—Geology Symposium, 6–7 June 1992, **Department of Mineral Exploration and Mining Geology, Western Australian School of Mines**, Kalgoorlie
- 1993 Kalgoorlie as a Regional Industrial Centre—Proceedings of the National Conference of the Australasian Institute of Mining and Metallurgy and The Institution of Engineers, Kalgoorlie, October 1993, **AusIMM and IEAust**, Kalgoorlie
- 1993 Landcare 93 Conference—Sharing the Challenge, Proceedings, Perth, October 1993, Western Australia, Department of Agriculture, Miscellaneous Publication 20/94, **WADA**, Perth
- 1993 Proceedings of a National Conference on Land Management for Dryland Salinity Control, September 1993, **Latrobe University**, Bendigo, Victoria
- 1994 A Vision For a Greener City—The Role of Vegetation in Urban Environments, **Greening Australia**, Canberra
- 1994 Advances in Environmental Science—Contamination of Groundwaters, **Science Reviews**, Northwood, England
- 1994 Agricultural Impacts on Groundwater Quality—Proceedings of an International Workshop, Kota Bharu
- 1994 Potential for Increased Farm Production and Improved Land Management Through the Use of Gypsum Around Lake Chinocup, **Agriculture Western Australia**, Katanning
- 1994 Second Asian Regional SCOPE—Workshop on Groundwater Contamination—Research and Progress Towards Groundwater Protection in the Asia Pacific Region
- 1994 Soils 94—Third Triennial Western Australian Soil Conference, **Australian Society of Soil Science (WA Branch)**, Busselton
- 1994 Water Down Under 94—Combined 25th Congress of the International Association of Hydrogeologists with the 22nd International Hydrology and Water Resources Symposium of The Institution of Engineers, Adelaide, November 1994, **IAH and IEAust**, Adelaide



- 1994 Workshop—Environmental water quality sampling for nutrients—Unedited papers presented to the Workshop on Water Sampling
- 1995 Groundwater Quality Remediation and Protection Conference, Prague, May 1995—IAHS Publication 225, IAHS, Prague
- 1995 Systems for the Future, the Australian Management Systems—Proceedings of the Australian Systems Conference, **Edith Cowan University**, Perth
- 1995 Weeds, Wire and Woodland Conference, Merredin, April 1995, **Wheatbelt Remnant Vegetation Committee**, Merredin
- 1996 First International Conference on Contaminants and the Soil Environment in the Australasia Pacific Region, Adelaide
- 1996 Fourth National Conference and Workshop on the Productive Use and Rehabilitation of Saltlands—Proceedings, **Promaco Conventions, Canning Bridge, Perth**, Albany
- 1996 Hydrology Program, Western Pacific Geophysics Meeting, Brisbane, July 1996, **Western Pacific Geophysics**, Brisbane
- 1996 Proceedings of the Inaugural Conference of Groundwater and Land-Use Planning, Fremantle Western Australia, 16–18 September 1996, **Centre for Groundwater Studies**, Fremantle
- 1996 Water Resources Law and Management in Western Australia, **UWA**, Perth
- 1997 Water Land WAI WHENUA—24th Hydrology and Water Resource Symposium, Proceedings, Auckland, 1997, **Hydrology and Water Resource**, Auckland
- 1998 Groundwater—Sustainable Solutions—International Groundwater Conference, **IAH**, Melbourne

Table 2. Abbreviations of conference organisers

AAAS	Australian Association for the Advancement of Science
AIAS	Australian Institute of Agricultural Science
ANU	Australian National University
ANZAAS	Australian and New Zealand Association for the Advancement of Science
ASEG	Australian Society of Exploration Geophysicists
AusIMM	The Australasian Institute of Mining and Metallurgy
AWWA	Australian Water and Wastewater Association
AWRC	Australian Water Resources Council
BHRA	British Hydraulic Research Association
BMR	Bureau of Mineral Resources
CALM	Department of Conservation and Land Management
CSIRO	Commonwealth Scientific and Industrial Research Organisation
DCE	Department of Conservation and Environment
EPA	Environmental Protection Authority
GSA	Geological Society of Australia
IEAust	The Institution of Engineers, Australia
IAH	International Association of Hydrogeologists
IAHR	International Association for Hydraulic Research
IAHS	International Association of Hydrological Sciences
IGC	International Geological Congress
PWD	Public Works Department
UNESCO	United Nations Education Scientific and Cultural Organization
UWA	University of Western Australia
WADA	Western Australia, Department of Agriculture
WAIT	Western Australian Institute of Technology
WAWRC	Western Australian Water Resources Council
WRF	Water Research Foundation of Australia



Table 3. Journals referred to in this report

Agricultural Systems and Information Technology	Journal of Applied Bacteriology
Agricultural Water Management	Journal of Arid Land Studies
Agriculture, Ecosystems and Environment	Journal of Contaminant Hydrology
Agroforestry Systems	Journal of Geochemical Exploration
Applied Geochemistry	Journal of Hydrological Sciences
Applied Geography	Journal of Hydrology
Applied Hydrogeology	Journal of Reclamation and Revegetation Research
Australia Geographical Studies	Journal of Sedimentary Petrology
Australia Journal of Marine and Freshwater Research	Journal of the Australian Institute of Agricultural Science
Australian Geographer	Journal of the Geological Society of Australia
Australian Journal of Agricultural Research	Journal of the Institution of Engineers Australia
Australian Journal of Earth Sciences	Journal of the Natural History Society of Western Australia
Australian Journal of Ecology	Journal of the Royal Society of Western Australia
Australian Journal of Experimental Agriculture	Land and Water Research News
Australian Journal of Marine and Freshwater Research	Land Contamination and Reclamation
Australian Journal of Soil Research	Land Degradation and Development
Australian Salinity Newsletter	Land Degradation and Rehabilitation
Biolinks: Newsletter on Biological Diversity Conservation Actions	Landscape and Urban Planning
Bureau of Mineral Resources Journal of Australian Geology and Geophysics	Landscape Planning
Catena	Landscape
Chemical Engineering and Mining Review	Lucern Newsletter
Ecological Modelling	Marine Ecology Progress Series
Economic Geology	Marine Geology
Economic Record	Mathematics and Computers in Simulation
Ecos	Medical Journal of Australia
Engineering Geology	Minutes of Proceedings of the Institution of Civil Engineers
Environment	Nature and Resources
Environmental Geology	Palaeogeography, Palaeoclimatology and Palaeoecology
Environmental Pollution	Proceedings EOS Transactions
Estuarine, Coastal and Shelf Science	Proceedings of the Institution of Engineers
Exploration Geophysics	Proceedings of the Royal Geographical Society
Forest Ecology and Management	Progress in Water Technology
Forest Focus	Science and Technology
General Engineering, Transactions of the Institution of Engineers Australia	Search
Geochimica et Cosmochimica Acta	Society of Natural Resources
Geological Magazine	Soil Science Society of America, Proceedings
Groundwater	State Wildlife Authority News Service
Groundwater Monitoring and Remediation	The West Australian (Newspaper)
Helictite	Transactions of the Royal Society of South Australia
Hydrogeology Journal	Water
Hydrological Processes	Water Research
International Journal of Environment and Pollution	Water Resources Research
(Western Australia) Journal of Agriculture	Western Australia Naturalist
	Western Australian Health Surveyor (Quarterly)
	Western Caver
	Western Geographer
	Worldwater and Environmental Engineering
	Zeitschrift für Geomorphologie N. F.



Table 4. Principal subject keywords

(The keyword **acid leaching** is contained in (1) reference)

- acid leaching (1)
 agriculture (5)
 aquifer properties (21)
 aquifers (28)
 artesian aquifers (1)
 artesian basins (10)
 artesian water (24)
 artesian wells (5)
 artificial groundwater recharge (7)
 bibliographies (19)
 bores (1)
 calcrete (13)
 catchment (15)
 caves (6)
 contamination (10)
 cost analysis (1)
 demineralization (1)
 dewatering (1)
 drainage (dewatering) (24)
 drainage (geomorphology) (6)
 drilling (5)
 earthquake effects (4)
 education (1)
 evapotranspiration (7)
 exploratory wells (38)
 facies (1)
 fauna (4)
 forestry (3)
 formation water (1)
 fractured-rock aquifers (8)
 gamma radiation (1)
 geochemical processes (1)
 geochemistry (2)
 geological surveys (2)
 geophysical logs (1)
 geophysical surveys (27)
 geothermal energy (2)
 geothermal gradients (1)
 groundwater basins (6)
 groundwater discharge (30)
 groundwater level (97)
 groundwater management (153)
 groundwater movement (54)
 groundwater pollution (104)
 groundwater quality (31)
 groundwater recharge (74)
 groundwater resources (190)
 groundwater sampling (1)
 groundwater sources (1)
 groundwater surveys (159)
 groundwater withdrawal (17)
 hydrogeological maps (14)
 hydrologic cycle (8)
 industrial wastes (2)
 injection wells (1)
 iron (1)
 irrigation (6)
 isotope ratio (1)
 isotopes (2)
 karst (2)
 lakes (7)
 land filling (6)
 land use planning (2)
 legislation (6)
 licences (1)
 limnology (3)
 lineaments (1)
 mapping (1)
 maps (1)
 mathematical models (6)
 methane (1)
 methods (1)
 mine drainage (1)
 mines (2)
 mining (2)
 models (1)
 moisture meters (3)
 mound springs (1)
 nitrates (5)
 nitrogen (1)
 palaeochannel (1)
 palaeodrainage (10)
 palaeogeography (3)
 pesticides (2)
 petroleum (1)
 phosphorus (4)
 planning (1)



playa lakes (1)
pump tests (1)

radiometric dating (2)
remote sensing (1)
research management (4)
resource assessment (3)
revegetation (9)
reviews (3)
rural planning (1)

salinity (213)
salinity surveys (22)
salt (1)
salt lakes (4)
salt water (2)
salt water encroachment (1)
satellite imagery (1)
science history (3)
sediments (1)
seepage (3)
seismic refraction surveys (3)
simulation (1)
soil leaching (3)
soil physics (1)
solution channel (1)
springs (14)
stratigraphic correlation (2)

stratigraphic wells (2)
stratigraphy (2)
surface drainage (2)

transient EM surveys (1)

unconfined aquifers (14)
urbanization (3)

vegetation (3)

waste disposal (6)
waste management (3)
wastes (1)
water budget (22)
water chemistry (25)
water conservation (1)
water divining (3)
water quality (34)
water resource maps (1)
water resources (9)
water supply (100)
water table (3)
water wells (28)
well tests (1)
wetlands (36)



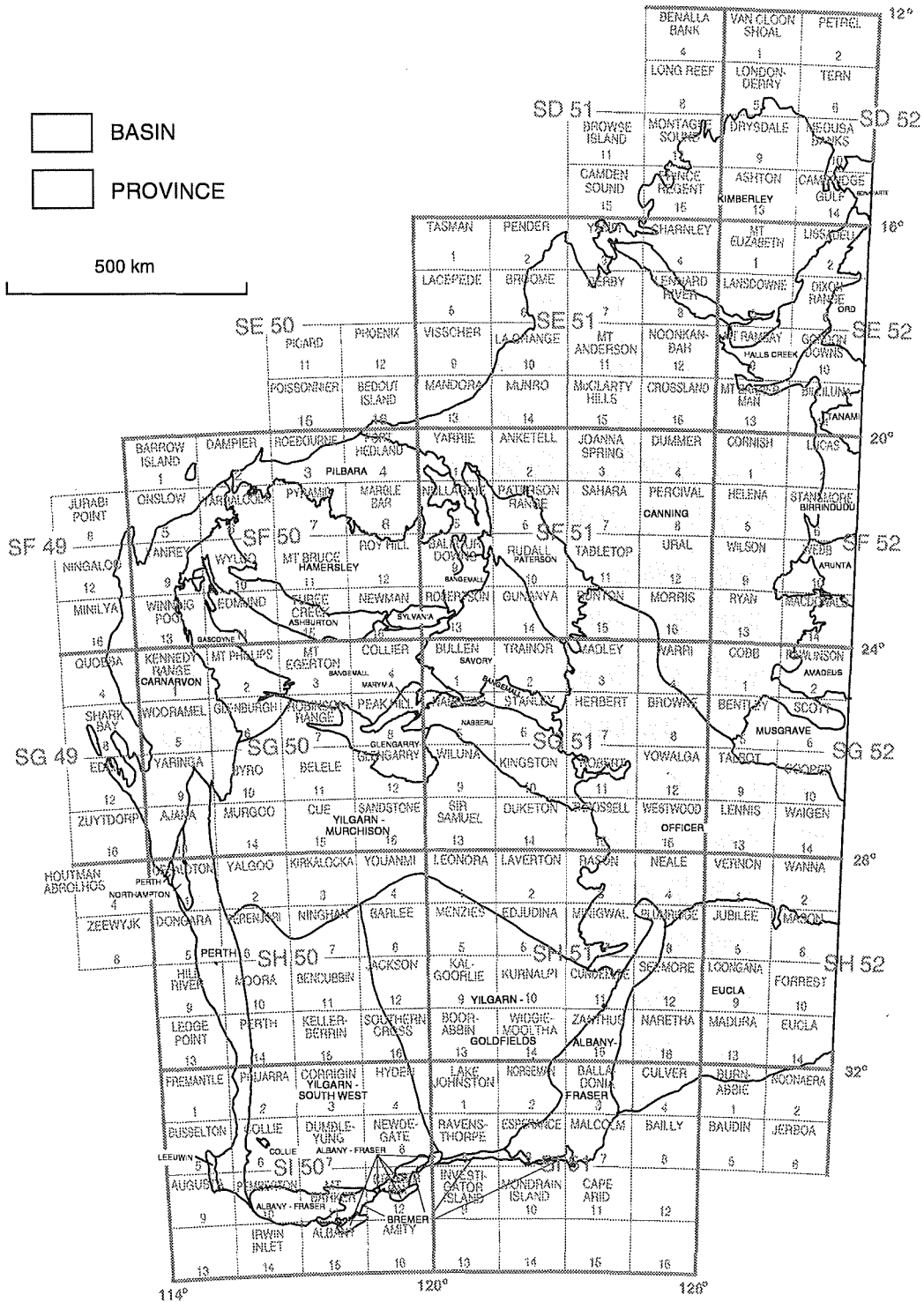


Figure 1. International indices and 1:250 000 sheet names superimposed on the sedimentary basins and fractured-rock provinces of Western Australia

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