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Projects in Water-disaster Management – Select Examples of Floodplain Management

Appletree Street, Wingham (private clients)

Representation in Land and Environment Court for Development Applications on flood-prone land, 2003.

Edgewood Estate, Woonona (MrBugs Pest Control)

Advice on flooding nuisance caused by residential developer 2002-present.

Gateway Island Development Plan Independent Risk Management Assessment (North East Catchment Management Authority and Wodonga City Council)

Investigation of feasibility of residential, commercial and tourist development within the floodplain of the Murray River, 2001.

Trial Bay Tourist Park Flood Risk Management Study, 2001 (Fortis, AAMI, CGU).

Macleay River Floods, March 2001

Advice on causes of inundation of property, 2001 (QBE and Western QBE).

Wollongong Floods, August 1998

Advice on legal causes of flood losses at Wollongong, 2001-2002 (Western QBE, NRMA).

Namoi Valley Floods, November 2000 (Western QBE, NRMA)

Advice on causes of inundation of property, 2000-2001.

Hampton Court, Lansdowne

Advice on legal liability for approving residential development in swampy ground, 2000-present.

Wollongong Floods, August 1998 (private clients)

Advice on legal liability of Wollongong Council for the flood losses at Wollongong, 1998-2000.

Flood Insurance Pilot study on feasibility of developing a scheme for flood insurance, 1998-1999.

Wollongong Floods, August 1998 (NRMA Insurance, QBE, WQBE, Australian Alliance, and others)
Advice on causes of inundation of property, 1998-2000.

Townsville Floods, January 1998 (Insurance Enquiries and Complaints, General Insurance Panel)
Technical Advisor to Panel at Hearing, 1998.

Sea-Dyke Upgrading North Viet Nam (United Nations Development Program and World Food Programme)
Evaluating the sustainability of the maintenance program for sea and estuarine dykes and developing a manual for estimating the average annual maintenance, 1998.

Sydney Floods April 1998 (NRMA Insurance, GIO Insurance)
Advice on causes of inundation of property, 1998.

Townsville Floods January 1998 (Insurance Council of Australia, NRMA Insurance, CIC Insurance, Commercial Union, Munich Reinsurance)
Advice on causes of inundation of property, 1998.

Pegasus Bay New Town Development New Zealand (Pegasus Bay Coastal Estates)
Economic, planning and technical oversight of water-disaster planning and environmental risk management, 1997-1999.

Coffs Harbour Flood November 23 1996 (NRMA Insurance).
Reports on flooding of clients' houses, 1997.

Lismore Flood Mitigation (Lismore City Council)
Evaluation of social and economic effects of preferred floodplain management options (in association with Sinclair Knight and Partners), 1997-present.

NSW Floodplain Management Manual (Department of Land and Water Conservation, NSW)
Incorporating the concept of ecologically sustainable development into the revised manual, 1996-7.

Waikanae Floodplain Management Plan (Wellington Regional Council, NZ)
Advice on developing a sustainable floodplain management plan, 1996-97.

Pakistan Assessment of Performance of Flood-Restoration Works (Asian Development Bank)
Assistance with Project Evaluation Review of works following large floods in the Indus Basin, 1996.

Ourimbah Creek Floodplain Management Plan 1994 (Wyangong Shire Council)
(in association with ACER Wargon Chapman),.

Sea-Dyke Upgrading Central Viet Nam (United Nations Development Program)
Development of a sustainable scheme for local asset management of sea and estuarine dykes, 1994-96.

Water-disaster mitigation in Viet Nam (United Nations Development Program)
Chief Technical Writer for International Consultation on Viet Nam's Strategy and Action Plan, and Technical Writer of Update and Policy on Sustainable Water-Disaster Mitigation, 1994-5.

Flood-Warning Services for Northeast Victoria (Flood Warning Consultative Committee, Victoria)
Review of effectiveness during floods of October 1993, and sustainable improvement of warning system, 1994-5.

Woronora River Floodplain Management Plan (Sutherland Shire Council)
(in association with ACER Wargon Chapman), 1994-5.

Coastal Flash-Flood Warning Study (NSW Public Works)
Assessment of wider benefits of system studied earlier, 1994-96.

Waimakariri River South Arm (Canterbury Golf International)
Advice on locating a golf course in a floodway, 1994-1998.

Handbook for preparing emergency loans (Asian Development Bank)
Preparing handbook for rapid assessments of emergency rehabilitation projects after disasters, 1994-96.

Sanctuary Point Floodplain Management Study (Shoalhaven City Council)
Preparation of Floodplain Management Plan, 1992.

Water-disaster mitigation in Vietnam (United Nations Department of Humanitarian Affairs)
Team leader of international consultants and national experts preparing a Strategy and Action Plan, 1992-4.

Darling Mills Retarding Basin (Upper-Parramatta River Catchment Trust)
Re-evaluation of benefits of proposed retarding basin, 1992-3.

Hanoi Dyke (Asian Development Bank)
Economic, social and environmental evaluation of feasibility of upgrading, 1992-3.

Song Chu and North Nghe An Irrigation Projects Viet Nam (Asian Development Bank)
Economic evaluation of benefits of upgrading irrigation structures which were at risk of failure, 1992-3.

Sheas Creek Catchment Management Study (The Water Board)
Economic and social evaluation of flood-mitigation strategies, 1992-3.

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Red River Delta and Central Coast Vietnam (United Nations Development Program)

Economic and social evaluations of flood-mitigation strategies, 1992.

Darling Mills Creek (Upper Parramatta River Catchment Trust)

Economic and social evaluation of flood-mitigation strategies (in association with Bewsher Consulting), 1991-2.

St. Georges Basin Flooding Survey (Shoalhaven City Council)

Survey of effects of floods of 1991, 1991-2.

Rose Bay Catchment Management Study (The Water Board)

Evaluation of social and economic effects of floodplain management options (in association with Patterson Britton.), 1991

Lismore Flood Mitigation (Lismore City Council)

Evaluation of social and economic effects of a range of floodplain management options (in association with Sinclair Knight and Partners), 1991-5.

Flood Mitigation Nowra (Shoalhaven City Council)

Formulation of criteria for development on floodplain, 1992.

Social and economic evaluation of floodplain management strategies (The Water Board)

In-house workshop for senior stormwater engineers, 1992.

Coastal Flash Flood Warning Study (Public Works Department)

Evaluation of social and economic benefits of a flash flood warning system for the Wollongong - Newcastle - Sydney region (in association with ISMES), 1991-2.

Cup and Saucer Creek Catchment Management Study (The Water Board)

Evaluation of social and economic effects of flooding (in association with the Water Board's Stormwater Drainage Section), 1991.

Cooks River Catchment Management Study (The Water Board)

Evaluation of social and economic effects of flooding (in association with Binnie & Partners.), 1991.

Burns Creek Catchment Management Study (The Water Board)

Evaluation of social and economic effects of flooding (in association with Kinhill Engineers Pty. Ltd.), 1991.

Sanitation Drainage and Flood Mitigation Study for the Kaleerwe-Kavule Area Kampala Uganda, 1990

(Church of Uganda and Auckland Diocese of Anglican Church)

Parramatta Floodplain Management (Upper Parramatta River Catchment Trust)
Evaluation of economic effects of flooding of CBD, 1990.

Floodplain Development Nowra (Theo Mavromattes)
Advice on flood-resistant designs for housing, 1990.

Penkivil Street Waverley Catchment Management Plan (The Water Board)
Evaluation of social and economic effects of flooding (in association with Dames & Moore), 1990.

Raglan St. Manly Catchment Management Plan (The Water Board)
Evaluation of social and economic effects of flooding and environmental planning (in association with Binnie & Partners), 1990.

Whites Creek Leichhardt Catchment Management Plan (The Water Board)
Evaluation of social and economic effects of flooding (in association with Gutteridge Haskins & Davey), 1990.

Shoalhaven River Bank Protection (Shoalhaven City Council)
Vegetative stabilisation of river bank adjacent to Australian Pulp and Paper Mill's factory, 1990.

Ettymalong Creek Flood Damages (Gosford City Council)
Estimation of flood damages caused by development on a swamp, 1990-1.

Waimakariri River Floodplain Management Plan (Canterbury Regional Council, New Zealand)
Technical Adviser, 1989-90.

Hutt River Flood Control Scheme Review (Wellington Regional Council, New Zealand)
Technical Adviser, 1989.

Lismore Floodplain Management (Lismore City Council)
Survey of economic effects of flooding on commercial establishments in Lismore in April 1989.

Floodplain Management Bankstown (GEC Projects)
Advice on means of mitigating losses from flooding, 1989.

Floodplain Management Nowra (Shoalhaven Milling Company)
Advice on future development to mitigate flood losses, 1988.

Flood Mitigation Nowra (Shoalhaven City Council)
Report on potential for flood damage and means of mitigating losses for new urban development, 1988.

Sydney Floods 1988 (Public Works Department)

Re-evaluation of losses in Georges River along the same lines as for the study following the flood of August, 1986 (1988-9).

Sydney-Newcastle Floods 1988 & 1989 (NRMA Insurance)

Report on flooding of clients' houses, 1988-9.

Lismore Floodplain Management (Lismore City Council)

Advice on strategies for staged programme of flood mitigation for Lismore, 1988.

Blacktown Creek Flooding (NRMA Insurance)

Report on flood damage in Blacktown Creek and means of mitigating losses, 1988.

Floodplain Management (Ministry of Works and Development, N.Z.)

Advice on formulation of new practices and procedures for floodplain management in New Zealand, 1988-9.

Flood Insurance (National Roads and Motorists' Association)

Advice on appropriate policies and practices for assessing flood damage. Advice on the feasibility of flood insurance. Assessment of flood damage claims, 1988-9.

Sydney Floods Study (Public Works Department and Department of Water Resources)

Evaluation of economic losses, social impacts, efficacy of warning and emergency systems in floods of August, 1986 and assessment of losses in other floods. Derivation of empirical relationships for assessing future losses elsewhere in Australia, 1986-8.

Bankstown Square Shopping Centre (Civil and Civic)

Advice on preparing submission to Council to vary its flood policy for this shopping centre, 1983.

Grafton Flooding (Clarence River County Council)

Redetermination of appropriate flood-frequency distribution for Grafton, 1982-3.

Grafton Flood Mitigation (Clarence River County Council)

Social and economic effects of an augmented levee system to protect South Grafton, 1982-4.