

# CAIRNS SHIPPING DEVELOPMENT PROJECT



## Revised Draft Environmental Impact Statement


### APPENDIX F: Study Team










## STUDY TEAM BIOGRAPHIES




PERSONNEL	EXPERIENCE / QUALIFICATIONS	ROLE ON EIS	COMPANY
Pat Flanagan	<p>Pat is the founder and Chairman of Flanagan Consulting Group. He is an Engineer with over 35 years' experience in the planning, design, implementation and project management of residential, tourism, commercial, industrial and infrastructure projects for a range of both private and public sector clients.</p> <p>Since 1987, Pat has been in North Queensland providing project management and strategic advice into numerous projects. Pat specialises in project management and development advocacy and has extensive experience in the development approval process in Queensland. Pat was the Lead Consultant and Project Director for the approvals process and the Environmental Impact Statement for the proposed \$8.1 billion Aquis Resort at Yorkeys Knob.</p> <p>He has extensive experience with the economic assessment and project feasibility for large private and public infrastructure projects in North and Far North Queensland and a specific understanding of local constraints and issues relating to roads in North and Far North Queensland.</p> <p><b>Qualifications:</b>            Bachelor of Engineering            Masters in Business Administration</p> <p><b>Memberships:</b>            RPEQ (No.2170)            Fellow if Institute of Engineers, Australia            Fellow if Australian Institute of Public Works Engineering, Australia            NPER3 Registration No. 11544 – Civil College</p>	<p>Project Director, Project Management Team member and Author of Chapters A1,A2,A3,A4, B1 ( Land Use and Planning), B9</p> <p>Project Director of Terrestrial Disposal Options Study that preceded the EIS.</p>	
David Finney	<p>David has 30 years' experience in the planning, approval and environmental management of a wide range of natural resource developments including tourism developments, marinas, mines, quarries, landfills, agriculture, residential estates, aquaculture and service corridors. He has project managed and provided expert advice on soils, contamination, agricultural land capability, flora/fauna and water quality investigations, and waste management and impact assessments.</p>	<p>Project Manager, Project Management Team member and Co-author of Chapters A1,A2,A3,A4, Author of Chapter B13 and C1</p>	

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	<p>David has developed an intimate knowledge of the Cairns environs over the last 20 years, particularly the Barron Delta where he played a key role in environmental investigations in support of approvals for all current sand and gravel and landfilling operations.</p> <p>He has an intimate understanding of the Cairns Port through his technical review involvement in the Cairns Cityport Master planning process and EIS and Stage 1 construction auditing, HMAS Cairns redevelopment environmental approvals, BSE slipway sediment contamination assessments and Tropical Reef Slipway environmental evaluations and approvals compliance.</p> <p>He has managed major mining and infrastructure environmental impact assessments throughout Queensland .</p> <p>David’s environmental planning and EIA experience includes management of numerous infrastructure EIS/ approvals projects for Powerlink, Ergon and Department of Main Roads, Rio Tinto Coal Australia and recently was the Project Director for the Mt Emerald Windfarm EIS.</p> <p><b>Qualifications:</b></p> <p>Bachelor of Science, University of Queensland 1979</p> <p>Master of Agricultural Studies (Land Res Mgt), University of Queensland 1982</p> <p><b>Memberships:</b></p> <p>Member – Australian Institute of Agricultural Science and Technology.</p> <p>Member – Environment Institute of Australia and New Zealand.</p> <p>Member – Australian Institute of Mining and Metallurgy.</p> <p>Member – International Erosion Control Association.</p>		
David Rivett	<p>David Rivett has over forty-one years professional experience (15 in civil engineering, 26 in environmental engineering, environmental planning, and natural resource management). Over the past two decades David has managed and prepared numerous environmental impact statements and similar documents of both public sector and private sector clients. Recent projects include the \$8b Aquis Resort at The Great Barrier Reef EIS where he was Environment Team lead and a major author, and impact assessment and management assessments for major Department of Transport and Main Roads transport infrastructure projects.</p>	<p>Project Management Team member (Terrestrial Ecology Lead) and principal author of Chapters B1, B2, B6, B8, B10, B11, B12, B15, B16, B17, B18 and B19.</p> <p>Major author and MCA analyst for Terrestrial</p>	



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	<p>He has broad multidisciplinary experience in most terrestrial matters and a thorough knowledge of impact assessment and environmental management science and practice, principally in Queensland.</p> <p><b>Qualifications:</b>  Master of Natural Resource  Bachelor of Engineering (Civil)</p> <p><b>Memberships:</b>  Certified Practising Planner (Planning Institute of Australia)  Registered Professional Engineer Queensland</p>	<p>Disposal Options Study that preceded the EIS.</p>	
<p>Greg Fisk</p>	<p>Greg is an Associate at BMT WBM, with over 20 years of experience in preparing, assessing and managing multi-disciplinary environmental plans and impact assessment studies. As BMT WBM's Market Lead for Environment, Greg has a thorough knowledge of environmental law, policy, planning and management regimes throughout Australia. In particular, Greg has specialised expertise in wetland, coastal and marine legislation and planning, climate change, environmental impact assessment and environmental management related to transport infrastructure. Greg is an accomplished presenter and facilitator with extensive experience in the planning and delivery of workshops, science communication and consultation activities.</p> <p><b>Qualifications:</b>  Master of Science (Marine Policy) University of Delaware, USA (1996)  Bachelor of Arts (Marine Science Affairs) University of Miami, USA (1994)</p> <p><b>Memberships:</b>  Environment Institute of Australia and New Zealand  Australian Coastal Society</p>	<p>Project Management Team member (Marine Studies Lead) and principal reviewer of Chapters and Author of Chapters C2,C3,C4</p>	
<p>Brad Grant</p>	<p>Brad is a senior environmental scientist with BMT WBM. Brad joined BMT WBM in January 2009 and has over 13 years of experience working for local government and private organisations in Queensland and overseas. He has a broad range of expertise including water quality, environmental impact assessment, environmental auditing, and environmental management and monitoring. Brad has recently been involved in a number of impact assessment projects involving significant dredging and dredge material disposal. Brad has taken the lead water quality role in these projects, including the Port of Townsville Port Expansion Project EIS and the Cairns Shipping Development Project EIS.</p>	<p>Manager of Field Studies Program, Author of Chapters B4,B5</p>	


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	<p>Prior to joining BMT WBM, Brad was employed for a number of years by SMEC in Brisbane as an environmental scientist. During this time, Brad was involved with project managing and undertaking various environmental projects including groundwater and surface water monitoring, acid sulfate soil investigations, contaminated land investigations, renewable energy projects and development of environmental management plans. He was also involved in large infrastructure projects where he gained experience in environmental design, sustainability and environmental construction management.</p> <p>Prior to SMEC, Brad was involved in a number of roles within local government where he gained experience in environmental monitoring, environmental health, development approvals, and erosion and sediment control.</p> <p><b>Qualifications:</b> Bachelor of Environmental Science (Australian Environmental Studies) Majoring in Ecology and Pollution and Health, Griffith University Nathan(1994)</p>		
Dr.Conor Jones	<p>Conor is a Senior Ecologist at BMT WBM, with over 17 years post-graduate experience in research and environmental consulting. Conor has a Class I Honours Degree, which examined interactions between parasites and fishes on the Great Barrier Reef. He also completed a Doctor of Philosophy (PhD) at the University of Queensland, specialising in parasitism and the recruitment of coral reef fishes. He is also a senior operator electrofisher, ADAS cert III commercial diver and competent boat handler</p> <p>Conor has a detailed understanding of the ecology and management of coastal environments, including the complex interactions occurring within waterways from the upper catchment to marine environments. He has extensive field experience conducting a variety of ecological research and monitoring projects in marine, estuarine and freshwater systems. These have assessed a variety of environmental variables, including fauna (e.g. macroinvertebrates, fish), flora (e.g. marine plants, aquatic vegetation), habitat condition, and ecological health.</p> <p><b>Qualifications:</b> Bachelor of Science (Marine Biology) University of Queensland (1999) Honours (1st class) Marine Parasitology / Marine Biology, University of Queensland (2002) PhD (Marine Parasitology / Ecology) The University of Queensland (2007)</p> <p><b>Memberships:</b> Australian Marine Science Association (AMSA)</p>	Author of Chapter B7, Marine Ecology	



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Dr. Ian Teakle	<p>Ian is an engineer with the Hydraulic and Coastal Engineering Section of BMT WBM. He graduated with an honours degree in Civil Engineering from the University of Queensland in 1999 and was awarded a PhD in May 2006. He has also worked for Kellogg Brown &amp; Root Pty Ltd and Connell Wagner Pty Ltd. Ian's main area of expertise is in the modelling of coastal processes and in particular coastal sediment transport and morphology processes. His PhD research was undertaken at the University of Queensland Civil Engineering Department on the topic of coastal sediment transport modelling. Ian also has experience working in riverine hydrology and hydraulic modelling and with statistical investigations of cyclone climatology.</p> <p>He has undertaken a joint probability assessment of storm surge and freshwater flooding for the Sunshine Coast while working for Connell Wagner. He has also produced a "Cyclone Statistics Methodology Report" for the Queensland EPA</p> <p><b>Qualifications:</b>            B. Eng (Hons Civil) The University of Queensland (1999)            PhD (Coastal Engineering) The University of Queensland (2006)</p>	Author of Chapter B3, Coastal Processes	
Ian Mc Nichol	<p>Ian is a Principal Civil Engineer with over 30 years' experience in major civil infrastructure projects including Urban Infrastructure, Land Development, Highway and Airport Engineering. During this time he has gained experience in the fields of project management, risk management, contract administration, subdivision, road and traffic planning design, construction and maintenance, bituminous surfacing, road maintenance systems and contracting, airport infrastructure planning, design, maintenance and construction, roadside vegetation management contracting and consulting. Ian has taken several Lead Design Roles on major infrastructure design and construction projects delivered by Flanagan Consulting Group including North Ward Road Upgrade, Qld Rail Depot Upgrade at Stuart, Townsville Port Inner Harbour Expansion (Berth 10 and Cruise Ship Terminal), Cardwell Range Road Upgrade, Weddell Trunk Water Main Project and North Shore Boulevard</p> <p><b>Qualifications:</b>            Bachelor of Engineering (Civil) Honours            RPEQ (No. 06764)</p> <p><b>Memberships:</b>            Fellow of the Urban Development Institute of Australia</p>	Principal author of Traffic Impact Assessment Chapter	




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James Mansfield	<p>James is a Chartered Civil Engineer with 10 years' experience in the design, planning and engineering management of major civil infrastructure (roads, rail, mining and gas), pavements, earthworks, public utilities and drainage/stormwater and water infrastructure for both private and public sector clients. His success is attributed to a vast knowledge of civil engineering facets gained from exposure to diverse fields of civil engineering whilst also providing a strong focus on customer service and sound engineering advice.</p> <p><b>Qualifications:</b> Bachelor of Engineering (Civil) Chartered Professional Engineer, Institution of Engineers Australia</p> <p><b>Memberships:</b> Member of National Professional Engineers Register RPEQ (No. 17345)</p>	Co-author of Traffic Impact Assessment Chapter	
Erin Campbell	<p>Erin is an experienced Planner with over 18 years' experience in Planning and Project Management in private consulting and State government. Erin has an in depth knowledge of current legislative requirements and a proven track record of its interpretation and application in Northern Queensland, and has successfully navigated Clients through complex planning challenges with a focus on achieving outcomes that provide the best planning solutions for Projects.</p> <p>Erin has key strengths in Project Management and assessment of complex development applications with emphasis on Client liaison and resolution of complex development issues.</p> <p><b>Qualifications:</b> Bachelor of Regional and Town Planning</p> <p><b>Memberships:</b> Member of Planning Institute of Australia</p>	Co-author of Chapter B1 (Landuse and Planning)	
Liam Kenny	<p>Liam is a senior Structural Engineer with over 13 years' experience in the design, documentation and supervision of a diverse range of bridge and marine projects. Liam strives for innovative design solutions that meet the demanding conditions of tropical environments. Clients, other consultants and builders all value Liam's accessibility, responsiveness and his ability to produce quality designs in challenging timeframes.</p>	Principal author of Wharf 6 Structural Report	








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	<p><b>Qualifications:</b> Bachelor of Engineering (Civil) with Honours CPeng, NPER (Structural College)</p> <p><b>Memberships:</b> Registered Professional Engineer Qld (RPEQ 8787) Registered NT Certifying Engineer (Structural) Certifying Engineer (Structural), Northern Territory Building Practitioners Board Registered PNG Certifying Engineer (MIPNG)</p>		
Garrett Hall	<p>Garrett Hall is Manager Environment (VIC/TAS, NSW, QLD) and a Senior Environmental Scientist within Golder Associates' Environment team, providing strategic advice to clients in relation to regulatory liaison, waste planning, strategic planning, regulatory approvals and regulatory compliance. His focus is on assisting industry with driving resource efficiency while minimising compliance costs.</p> <p><b>Qualifications:</b> Masters of Environmental Science Sustainability and Environmental Policy, Monash University, Clayton, 2010 Bachelor of Science (Environmental) Honours Geomorphology and Ecology, Monash University, Clayton, 2001</p> <p><b>Memberships:</b> Member Environment Institute of Australia and New Zealand</p>	Principal author of Waste Management Report	
Tim Green	<p>Tim has eighteen years' experience in marine works including maintenance and capital dredging works. He has carried out the full scope of project implementation and management including site investigations (geotechnical/geophysical), tender preparation and evaluation, contract preparation and implementation and subsequent contract management through to completion.</p> <p>His work has included the preparation of numerous dredging cost studies, dredging feasibility studies and dredging methodology inputs for environmental studies and analysis required for the stringent approvals process.</p>	Principal author of Dredge Material Reclamation modelling assessments	

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	<p><b>Qualifications:</b> BEng (Hons) – Environmental Engineering, University of Western Australia, Perth 1998</p> <p><b>Memberships:</b> CPEng – Chartered Professional Engineer, Australia RPEQ – Registered Professional Engineer of Queensland MIEAust – Member, Institution of Engineers Australia PIANC – Board Member of PIANC Australia (2008 – Ongoing) CEDA – Member, Central Dredging Association</p>		
Sharyn Briggs	<p>Sharyn Briggs is a highly experienced urban and social planner, who formed her own firm, Briggs &amp; Mortar in 1990. Sharyn Briggs has over 40 years’ experience working as a planning consultant. She was previously a Director of BBC Consulting Planners for 7 years, where she developed and headed the Social Planning Division, and an Associate Director at Planning Workshop in Sydney for 9 years. Sharyn Briggs was made a Fellow of the Royal Australian Planning Institute (now Planning Institute of Australia) in 2000 in recognition of her contribution to social planning in Australia.</p> <p>Sharyn Briggs is an expert in social impact assessment. She sat on the Social Impacts Advisory Committee of the Sydney 2000 Olympic Games. She jointly reviewed the Commonwealth Social Impact Assessment legislation for the Environmental Protection Authority. She has both prepared a great number of SIAs and also developed policies and statutory instruments for Local Government and the Federal Government, which regulate the preparation of SIA.</p> <p>In recent years she has been involved in the preparation of various health and social impact assessment policies for major Councils.</p> <p><b>Qualifications:</b> Fellow Planning Institute of Australia Certified Practising Planner (CPP) Member Social Planning Chapter, Planning Institute of Australia Member Social Planning Network, Queensland.</p>	Principal author on Social Technical Study	

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<p>Alice Buhrich</p>	<p>Alice is a senior archaeologist who provides advice on Aboriginal and non-Indigenous heritage issues including impact assessment, linear infrastructure, mineral development projects and intangible heritage recording in urban, regional and protected areas of north Queensland. Alice has conducted over 45 heritage impact assessments and research reports for industry, government and Aboriginal organisations. She has built sound professional relationships with a number of Traditional Owners in the Wet Tropics and Gulf savannah over 15 years, including Aboriginal groups of the Cairns region. Alice brings a solid understanding of regional heritage issues in north Queensland and applies best practice cultural heritage principles.</p> <p><b>Qualifications:</b> Bachelor of Arts (Hons) Australian Archaeology.</p> <p><b>Memberships:</b> Australian Archaeological Association Australian Rock Art Association Cairns Historical Society</p>	<p>Principal author of Indigenous Cultural Heritage Report</p>	
<p>Tony Brassil</p>	<p>Tony Brassil has been a professional consultant in industrial heritage for more than thirty years, undertaking projects in all states of Australia, the External Territories (Christmas Island and Cocos Island) and internationally (Brunei). Tony has specialist skills in industrial archaeology and site analysis and has prepared chronological and thematic histories for a wide range of places. He has been a member of the National Trust's Industrial Heritage Committee for many years and was responsible for the compilation of the first state-wide register of historic industrial sites for the Australian Heritage Commission.</p> <p>Tony undertakes research and prepares conservation advice on industrial heritage places as diverse as wharves, power stations, railways, bridges, hydraulic systems and water supply, preparing significance and heritage impact assessments and conservation management plans for all types of industrial sites of significance. He has extensive experience in Defence sites and technologies; major urban utilities such as electricity, water supply, gasworks and sewerage; engineering structures, such as dams and bridges; and transport technologies such as airports, railways, roads and shipping.</p> <p>He has provided heritage oversight to dismantling and re-erection projects for machinery and engineering structures and is very experienced in the requirements and operations of heritage legislation in all Australian states.</p>	<p>Principal author Cairns Concrete Wharves- Heritage Impact Assessment</p>	

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Brian Haratsis	<p>Brian is MacroPlan's Founder and Chairman. Brian is an economist and future strategist with over 30 years' experience as an advisor to governments and major corporate clients throughout Australia.</p> <p>Brian Haratsis is regarded as Australia's foremost strategic property advisor, with a particular focus on economic forecasting as it relates to private sector property involvement, understanding communities, tourism and social trends.</p> <p><b>Qualifications:</b></p> <p>Master of Science - London School of Economics            Bachelor of Town and Regional Planning -University of Melbourne            Bachelor of Commerce - University of Melbourne</p>	Principal author of Economic Impact Assessment Report	
Jeremy McKinnon	<p>Jeremy leads MacroPlan's Advisory Services practice and is a senior economist with over 17 years of national and international experience. Jeremy specialises in economics, research and development advisory. He is commercially focused with extensive due diligence and transaction experience.</p> <p>Jeremy is currently responsible for the management and delivery of major research and property advisory projects nationally, including economic impact assessments, acquisition due diligence, development strategies, market research and new site selection assessments for retail, tourism and residential projects.</p> <p><b>Qualifications:</b></p> <p>Bachelor of Commerce, Economics and Public Policy Griffith University</p>	Co-author of Economic Impact Assessment Report	
Andrew Martin	<p>Andrew Martin has 23 years experience in air quality assessment including air quality monitoring projects at RG Tanna, Hay Point, Dalrymple Bay and Townsville ports. He has expert knowledge of air emission inventories and dispersion modelling as well as air quality management and control strategies.</p> <p><b>Qualifications:</b></p> <p>Bachelor of Science (Physics)            Master of Applied Science (Medical Physics)            Master of Science (Environmental Management)</p> <p><b>Memberships:</b></p> <p>Fellow of Clean Air Society of ANZ</p>	Principal author of Air Quality report	

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Stephen Pugh	<p>An ASK Director with 20 years relevant experience, Stephen has undertaken numerous noise impact assessments for EIS projects within multiple engineering sectors.</p> <p>Stephen has local experience in Cairns, having undertaken the noise impact assessment for the EIS for the AQUIS project.</p> <p><b>Qualifications:</b></p> <p>Stephen is a Registered Professional Engineer of Queensland (RPEQ). Bachelor of Engineering (Mechanical)</p> <p><b>Memberships:</b></p> <p>Member of Australian Acoustic Society Member of the Institute of Engineers Australia. Registered Professional Engineer of Queensland (RPEQ).</p>	Technical review and guidance for the noise impact assessment.	
Mitch Ryan	<p>Mitch Ryan has more than 5 years experience in the fields of environmental noise and air quality. Mitch has undertaken noise and air quality impact assessments for numerous EIS projects in Queensland within the transport and extractive industry sectors.</p> <p>Mitch has considerable knowledge of environmental noise, including both field monitoring and noise propagation modelling, in addition to significant knowledge in air quality dispersion modelling and emission inventory development.</p> <p><b>Qualifications:</b></p> <p>Bachelor of Engineering (Environmental) Bachelor of Science</p> <p><b>Memberships:</b></p> <p>Member of Australian Acoustic Society Member of the Institute of Engineers Australia.</p>	Principal author of Noise Impact Assessment report	

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Lars Kazmeier	<p>Lars Kazmeier has over 10 years of experience in environmental management, Geographic Information Systems (GIS) and Zoology. He holds the equivalent of a BSc gained from the University of Nuringen in Germany and completed his PhD research on tree kangaroos on the Atherton Tablelands. Mr. Kazmeier is an expert in the inception, management, integration and implementation of spatial strategies. He is responsible for in-field geo-biological data capture strategies and systems, spatial data analysis, stream-lined data transformation and map production systems.</p> <p><b>Qualifications:</b>            Bachelor of Science            PhD University of Nuringen</p>	Co-author of Terrestrial Ecology Reports	
Sarah Holt	<p>Sarah Holt has almost 10 years of experience of international environmental consulting experience, and almost 20 years of experience as a project manager both in Europe and Australasia. She also has an extensive background in business and finance and successfully delivering large multi-faceted jobs on time and on budget. She currently holds the position of Company Manager at Biotropica.</p> <p>Mrs. Holt has an excellent understanding of ecological impact assessment and environmental legislation and has assisted in the production of major projects awarded to Biotropica Australia, including the PNG LNG Project (ExxonMobil Corporation), Environmental Management Plans for protected areas in Queensland (Ergon Energy), and the ecological component of the Aquis at the Great Barrier Reef EIS.</p> <p><b>Qualifications:</b>            Bachelor of Science (Zoology)            Master of Environmental Conservation            Bachelor of Accounting.</p>	Co-author of Terrestrial Ecology Reports	
Tracey Hooper	<p>Tracey is an environmental planner with experience in landscape and visual impact assessment, recreation planning, natural area management, environmental management and town planning. Tracey has experience in visual landscape assessment and interpretation, assessment of potential visual impacts of projects and the preparation of supporting reporting, landscape and visual impact assessment for EIS, and in the technical review of landscape and visual impact assessments for both government and private sector projects.</p>	Co-author of Landscape and Visual Amenity Report	

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	<p>Tracey has undertaken a diverse range of nature based and outdoor recreation projects including development of recreation master plans, recreation demand analysis, tracks and trails plans, and strategies for the development and replacement of recreation facilities. Tracey also has experience in the design and implementation of recreation focused community and stakeholder engagement activities.</p> <p><b>Qualifications:</b>            Bachelor of Science            Graduate Diploma of Urban and Regional Planning            Master of Environmental Management</p>		
Allan Chenoweth	<p>Alan is a Senior Principal of Cardno Chenoweth Environment, a Certified Environmental Practitioner and Registered Landscape Architect, with over 30 years multi-disciplinary experience in environmental and landscape studies and their integration with town planning. He has particular expertise in the assessment of landscape values and conservation significance, and has won several awards for innovative approaches to mapping the 'green base' for local government planning schemes. He is also an experienced expert witness, having given evidence or prepared reports for more than 200 Planning &amp; Environment Court Appeals, mainly associated with the environmental, visual and open space impacts of development.</p> <p>Alan currently chairs the Certification Board of the Environment Institute of Australia and New Zealand, and has served on the Queensland Board for Urban Places and he Livingstone Shire Design Reference Panel; as President and international representative of Australian Institute of Landscape Architects, President of the Australian Institute of Horticulture, Qld President of the Royal Australian Institute of Parks and Recreation (now Parks &amp; Leisure Australia), and on the Management Committee of Environmental Defenders Office (Qld). Alan is currently studying part-time at Griffith University towards a PhD on the ethics of environmental practice.</p> <p><b>Qualifications:</b>            Master of Urban and Regional Planning 1997, UQ            Graduate Diploma of Landscape Architecture 1981, QIT            Bachelor of Agricultural Science 1971, UQ</p> <p><b>Memberships:</b>            Fellow AILA      Fellow EIANZ      Fellow Australian Institute of Horticulture            Fellow Parks &amp; Leisure Australia      Landscape Institute (UK) ASLA      PIA</p>	Principal author of Landscape and Visual Amenity Report	