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environmental management consultants



ENVIRONMENTAL CONSULTANTS ASSOCIATION (WA)

ABN 84 288 622 961

PO Box 971 West Perth WA 6872 Website: www.eca.org.au

The Professional Association For Environmental Consultants



2010 REGISTER OF MEMBERS

Sixteenth Edition November 2009



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INTRODUCTION

The Environmental Consultants Association (WA) is the professional body representing commercial environmental consultants throughout Western Australia. The Association promotes the interests of its members, the profession, and proper environmental protection.

Membership of the Association is restricted to qualified and experienced environmental consultants and all members are required to commit to a code of professional conduct (refer following page). The Association has in excess of 170 members which represent over 80 separate organisations and includes representatives from the majority of environmental consultancies operating within Western Australia. The Association promotes information exchange and networking opportunities for members in addition to representing the membership with meetings with the Minister for the Environment and other government representatives.

This represents the 16th annual edition of the Register of Members and provides summary information on the member organisations and individuals. The Register includes contact details for members, a summary matrix of services provided, and a profile of experience and specialist services provided by the members. This information is provided by members with supporting documentation to demonstrate their qualifications and expertise on their services provided. The committee of the Environmental Consultants Association assesses this information to confirm the nominated services provided for each member prior to entry in this Register.

The Environmental Consultants Association has adopted a series of position and policy papers. These are published and available on the Association's website (www.eca.org.au). They include policies or guidelines on peer review, complaints by members, the use of volunteers and work experience, and commercial consulting by government bodies and academic institutions. Guidelines for how to hire an environmental consultant are included at the end of this Register. The Association also has a grievance procedure for hearing possible complaints against members.

The Environmental Consultants Association encourages Members to contribute to their organisation to ensure that the information sharing sessions meet the needs of members. The Environmental Consultants Association encourages other consultants to join the Association and for those looking to engage an environmental consultant, to seek a member of the Environmental Consultants Association.

The support of our Sustaining Corporate Members: 360 Environmental, AECOM, GHMS Environmental Services, GHD, Greenbase, Oceanica Consulting and RPS, is acknowledged and appreciated.

We look forward to an exciting year where the Environmental Consultants Association will continue to promote excellent professional standards through information sharing towards achieving better environmental outcomes.



Ian LeProvost
PRESIDENT

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THE ENVIRONMENTAL CONSULTANTS ASSOCIATION (WA)

The Environmental Consultants Association is the professional body representing commercial environmental consultants in Western Australia. The Association engages in various activities including training and information sessions, the publication of this register, promotion of a Code of Conduct. The Association has a partnering agreement with the Environmental Protection Authority Service Unit to promote the relationship between regulators and consultants and support good environmental outcomes.

The aims of the Association are to:

- * promote reputable conduct by members,
- * promote the selection of consultants on merit,
- * support proper environmental protection,
- * promote the interests of members and the profession,
- * promote non-government, non-academic, Australian owned firms or practitioners where appropriate,
- * educate practitioners, clients and regulatory authorities in matters of professional interest,
- * promote informed debate about environmental matters and procedures, and
- * promote professional and social contact between members.

The Association allows membership of both individuals and organisations and has the following membership categories:

Full:	Individuals engaging in full-time commercial environmental consulting with the appropriate experience and qualifications;
Honorary Life:	Individuals who have rendered eminent service in the field of environmental consulting and/or to the Association;
Associate:	Individuals engaging in commercial environmental consulting but who do not meet all of the criteria for full membership;
Correspondent:	Individuals or organisations wishing to know about the activities of the Association;
Corporate:	Corporate body engaged in commercial environmental consulting and employing Members; and
Sustaining Corporate:	Corporate Members providing additional sponsorship to the Association;

CODE OF CONDUCT

Members of the Association agree to the following code of conduct

1. Members will act with honesty and integrity in all professional and business activities
2. The responsibility of members to the community will come before their responsibility to the profession, to sectional or private interests, or to other consultants.
3. Members will be personally accountable for the validity of all work they carry out or direct.
4. Members will not condone misrepresentation or misuse of work they have carried out or directed.
5. Members will apply their professional skills and knowledge for the benefit of their clients and to the best of their ability.
6. Members will uphold the honesty, standing and dignity of the profession in all matters.
7. Members will maintain their skills and knowledge throughout their careers.
8. Members will only practice in areas in which they are competent.

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Kaciuba, Renae	ENVIRON Australia Pty Ltd	9225 5199		rkaciuba@environcorp.com.au
Loudon, Bethea	Coffey Environments	9355 7100	0427 473 275	bethea_loudon@coffey.com
Massey, Lisa		9754 4920		
McGuire, Lorna	Water Corporation	9420 3113	0400 766 342	lorna.mcguire@watercorporation.com.au
Mewburn, Narelle	Syrinx Environmental Pty Ltd	9227 9355	0417 097 855	nnewburn@syrinx.net.au
Mitrovski, Paul	Coffey Environments	9355 7100		paul_mitrovski@coffey.com
O'Halloran, Jessica	RPS Environment Pty Ltd	9382 4744		ohalloranj@rpsgroup.com.au
Perry, Lance	Clayton Utz	9481 3095	0409 426 484	laperry@claytonutz.com
Richardson, Rebecca	Water Corporation	9420 3080		rebecca.richardson@watercorporation.com.au
Rogovsky, Paul	Water Corporation	9420 3860	0408 945 169	paul.rogovsky@watercorporation.com.au
Rosano, Michele	Curtin University Centre of Excellence in Cleaner Productio	9266 1286	0401 103 756	m.rosano@curtin.edu.au
Sands, Lucy	Blue Sands Environmental	9526 2297	0438 262 226	lucy@bluesands.com.au
Van Den Bergh, Clinton	Coffey Environments	9355 7111	0408 939 204	clinton_vandenbergh@coffey.com
van Merwyk, Tony	Freehills	9211 7660	0407 467 660	tony.vanmerwyk@freehills.com
Watson, Guy	Water Corporation	9420 3832	0438 947 828	guy.watson@watercorporation.com.au
Whitfield, Gemma	360 Environmental	9321 0420	0413 688 034	gemma@360environmental.com.au
Wilson, Alison	Coffey Environments	9355 7100	0488 355 733	alison_wilson@coffey.com
Wright, Merome	URS Australia Pty Ltd	9326 0100	0438 916 127	merome_wright@urscorp.com
Wylynko, Brad	Clayton Utz	9426 8552		bwlynko@claytonutz.com

Key to Services Matrix

Project Management	Managing environmental management projects involving multiple stakeholders and disciplines.
Environmental Assessment	Assessing environmental impact of developments or policy decisions, and development of environmental offsets
Environmental Management	Assisting government and other bodies with environmental management program development and implementation.
Statutory Submissions	Assisting in development and presentation of submissions to ensure compliance with statutory reporting requirements.
Data management and analysis	Compiling and managing large environmental data sets. Services may include development of relational databases. Providing qualitative, statistical analysis or modelling of environmental data.
Environmental planning	Incorporating environmental considerations into land development and resource use planning.
Audits	Auditing of an organisations environmental performance and compliance by certified auditors.
EMS	Developing environmental management systems such as those in compliance with the ISO14000 standards.
Remote sensing/GIS	Use of satellite mapping, aerial photography, and geographic information systems to make decisions affecting the environment.
Training/ Education	Providing training in activities related to environmental management, or educating the public regarding environmental issues.
Community Liaison	Communicating with a variety of stakeholder groups regarding developments, policies, or infrastructure.
Heritage	Identifying and monitoring impacts with significant heritage or cultural value.
Fauna	Providing ecological advice on Australian native fauna. Conducting fauna surveys.
Flora/Vegetation	Providing ecological advice on Australian native flora. Conducting vegetation surveys.
Aquatic/Wetlands	Providing ecological advice on terrestrial waterways, lakes, and wetlands. Conducting monitoring of aquatic ecosystems.
Marine	Providing ecological advice on the coastal and marine environment. Conducting monitoring of marine ecosystems.
Conservation	Providing advice relevant to the protection of terrestrial environments.
Catchment Management	Assisting with the management of human impacts on catchments and receiving water bodies.
Rehabilitation	Assisting with rehabilitation of degraded habitat.
Groundwater	Hydrogeological modelling and analysis, groundwater monitoring, or providing advice on groundwater resources.
Surface water	Hydrological modelling and analysis, surface water flow monitoring, or providing advice on water resources.
Quality/Salinity/ Nutrients	Providing advice on impacts and management in relation to water use and land management. Water quality sampling.
Air Pollution	Assisting in managing and monitoring air pollution.
Contaminated sites	Assisting in investigating, quantifying, rehabilitation, and monitoring of contaminated sites.
Waste Management	Developing waste management systems and waste reduction planning.
Waste Water	Assisting in the management, monitoring, and planning of industrial and domestic waste water.
Noise	Providing advice on noise management. Monitoring noise.
Radiation	Radiological monitoring. Developing materials management processes.

**SUMMARY TABLE OF SERVICES
INDIVIDUAL MEMBERS**

	Baldock, Kel	Bamford, Mike	Barton, Elizabeth	Bayley, Phil	Beckwith, Jo Ann	Bell, Brian	Bennett, Eleanor	Biggs, Bill	Bird, Scott	Blandford, Doug	Bourgault, Phil	Bowman, Martin	Braid, John	Brown, Barbara	Brown, Evan	Buckee, Jo	Chandler, Bill	Choo, Kathy	Clark, Belinda	Cockerton, Geoff	Coleman, Mark	Collins, Peter	Colman, Jeremy	Connell, Garry	Cowell, Toni	Craig, Gillian	Davies, Jim	De Roach, Robert
GENERAL																												
Project Management	●	●	●	●	●				●	●	●	●	●	●	●	●	●					●	●	●	●	●	●	
Environmental Assessment	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	
Environmental Management Programs			●	●		●	●	●	●	●		●		●	●	●	●		●		●	●	●		●		●	
Statutory Submissions			●		●		●	●	●		●		●		●	●	●	●	●			●	●	●			●	
Data Management, Analysis	●		●		●			●			●		●		●	●					●	●		●	●	●	●	
Environmental Planning	●		●	●		●	●		●		●	●	●		●				●				●	●	●			
Audits			●		●			●	●						●	●		●		●		●						
EMS			●					●								●				●								
Remote Sensing/GIS																										●		
Training/Education						●			●																●			
HERITAGE																												
Community Liaison	●			●			●				●	●			●									●	●			
Heritage							●																					
BIOLOGY																												
Fauna		●											●										●				●	
Flora/Vegetation							●					●	●		●				●		●				●			
Aquatic/Wetlands		●		●		●						●				●				●	●							
Marine			●												●						●	●					●	
LAND																												
Conservation	●									●	●	●								●					●			
Catchment Management	●		●			●				●	●	●	●							●					●			
Rehabilitation						●	●		●	●	●	●				●			●		●				●			
Capability, Soils			●							●	●	●																
WATER																												
Groundwater	●		●	●							●	●				●	●									●		
Surface Water	●		●	●						●	●	●				●	●			●				●		●		
Quality/Salinity/Nutrients	●		●	●							●	●				●				●	●					●	●	
INDUSTRIAL																												
Air Pollution						●								●			●											
Contaminated Sites								●		●	●						●							●				
Waste - Management										●	●						●					●					●	
Waste Water			●							●	●												●		●		●	
Noise																						●					●	
Radiation																●												

Baldock, Kel
 Bamford, Mike
 Barton, Elizabeth
 Bayley, Phil
 Beckwith, Jo Ann
 Bell, Brian
 Bennett, Eleanor
 Biggs, Bill
 Bird, Scott
 Blandford, Doug
 Bourgault, Phil
 Bowman, Martin
 Braid, John
 Brown, Barbara
 Brown, Evan
 Buckee, Jo
 Chandler, Bill
 Choo, Kathy
 Clark, Belinda
 Cockerton, Geoff
 Coleman, Mark
 Collins, Peter
 Colman, Jeremy
 Connell, Garry
 Cowell, Toni
 Craig, Gillian
 Davies, Jim
 De Roach, Robert

SUSTAINING CORPORATE MEMBERS

360 Environmental Pty Ltd

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Web: www.360environmental.com.au

Profile:

360 Environmental Pty Ltd (360 Environmental) was established by the merging of experience and proven environmental professionals. The company has merged the skills and experience of local and national environmental managers from the petroleum, water and mining industries, from both government and consultancy positions. 360 Environmental has specialist skills in project environmental and risk management. Part of the proven success of 360 Environmental is the ability to integrate with professional teams to achieve the common goal(s) of the client. The 360 Environmental experience portfolio includes project management of the assessment and remediation of several significant contamination projects. 360 Environmental can assist in the development of innovative and sustainable solutions to reduce the burden on proponents and property owners.

Services:

- Project environmental and risk management
- Environmental impact assessment documentation, environmental management plans, systems and approvals
- Contaminated site assessment rehabilitation
- Community consultation and group facilitation
- Aboriginal heritage management (ethnographic and archaeological)
- Environmental audit
- Environmental due diligence
- Landfill remediation
- Mine rehabilitation and management
- Natural resource management
- Waste management and resource recovery
- Sediment sampling

AECOM

3 Forrest Place Perth, WA 6000

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Web: www.aecom.com

Profile:

AECOM provides the full range of integrated environmental management and planning advisory services and environmental science and engineering solutions.

The collective knowledge, insight and experience of AECOM's Perth based environmental team, backed by the capability of our strategic advisors, scientists, engineers and planners along with our access to AECOM Environment's global network, creates a powerful global resource. AECOM Environment provides consulting services to our mining, industrial, infrastructure, and oil and gas commercial clients as well as local, regional, and national government clients across the full array of environmental disciplines.

Locally, we provide services in the biological and physical environments, delivering baseline flora and vegetation surveys, Impact Assessment and permitting, marine survey and monitoring and noise, vibration and light spill assessment.

Services:

- Marine and terrestrial impact assessment
- GIS & secure, web based mapping and spatial data management
- Water and waste water treatment
- Climate change adaptation and sustainability services
- Marine and terrestrial ecology & modelling
- Noise and vibration assessment
- Environmental management plans and compliance reporting
- Contaminated land assessment and cleanup
- Geotechnical investigations, Ground and Surface Water modelling
- Specialist flora and fauna surveys
- Port, industrial & land use planning
- Occupational health and safety

GHD Pty Ltd

239 Adelaide Terrace Perth, WA 6004

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Web: www.ghd.com.au

Profile:

GHD has built a strong reputation over its long history in the delivery of a complete range of environmental services throughout Australia and Internationally. GHD is an independent Australian-owned company and has offices in Perth and Bunbury, enabling it to directly provide local clients with specialist advice and service covering the full range of environmental disciplines. Our strong multidisciplinary engineering background gives us the ability to provide services at all stages of project development and ensures strong integration with practical construction requirements. GHD is certified to ISO 9001.

Services:

- Environmental management and impact assessment
- Best practice environmental management
- Contamination studies and remediation
- Environmental audits and management systems
- Project planning and economic assessments
- Ecological Assessment and Rehabilitation
- Hydrogeology / hydrology
- Aquatic ecosystem assessments including wetland studies
- Asset management services
- Water and wastewater treatment
- Pollution Management

GHEMS Revegetation Environmental

4 Duffy Street Bassendean, WA 6054

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Web: www.ghems.com.au

Profile:

GHEMS Revegetation Environmental is an international revegetation - environmental services company that has advanced through years of exposure to the ever changing demands and expectations of industry leaders in the urban and resource development sectors. With increasing awareness of social, cultural and environmental issues, the company has built a team of skilled and experienced professionals offering technology based services.

Services:

- Native seed recovery
 - provenance collection
 - processing and storage
 - community involvement, supervision and training
- Environmental planning and consulting
 - bio-diversity baseline studies
 - Impact assessments and solution
 - Earthwork and landform designs
 - Evaluation, monitoring and review
- Rehabilitation and revegetation
 - supervision and operation
 - field technical assistance and training
- Forestry establishment and management
 - land assessment and preparation
 - establishment and management

Greenbase Pty Ltd

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Web: www.greenbase.com.au

Profile:

Greenbase focuses on suppling services to meet the growing need for data management expertise covering the broad range of environmental subjects. Along with its expertise in streamflow and water quality monitoring Greenbase has concentrated on developing a web-based environmental accounting service to assist clients in meeting their NPI, Greenhouse and Environmental License reporting commitments. Greenbase is able to offer an environmental data collection, interpretation, reporting and management service to meet most client needs.

Services:

- National Pollutant Inventory (NPI) accounting and reporting
- Environmental data management
- Environmental information systems development and planning
- Training for data collection and management
- Environmental project management and co-ordination
- Mining approval documentation and negotiation
- Greenhouse accounting and reporting
- Design and installation of streamflow monitoring devices
- Surface water monitoring
- Water quality monitoring
- Water data processing and management
- Hydrography

Oceanica Consulting Pty Ltd

99 Broadway Nedlands, WA 6009

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Fax: 9389 9660

Email: oceanica@oceanica.com.au

Web: www.oceanica.com.au

Profile:

Oceanica Consulting Pty Ltd (Oceanica) is an environmental and engineering consultancy that specialises in coastal and estuarine issues. Oceanica is located in Perth, Western Australia and has extensive experience in the management and implementation of environmental programmes for coastal and estuarine systems, and in the preparation of detailed documentation for regulatory approval, including interaction with all statutory authorities. Oceanica has also been actively involved in public consultation and community information programmes associated with many major projects in Western Australia.

Services:

- Project management
- Environmental engineering and modelling
- Policy relating to marine and coastal issues
- Coastal processes and geomorphology
- Dredging impacts and management
- Environmental surveys, including biota, water quality and sediment quality
- Environmental impact assessment
- Technical reviews
- Community consultation
- Benthic habitat mapping
- Nutrient and contaminant impacts on water and sediment quality
- Field expertise, including Commercial SCUBA qualifications (AS2815.1).

RPS

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Profile:

RPS is an international consultancy providing advice upon the development of natural resources, land and property, the management of the environment and the health and safety of people. RPS through its antecedent company Bowman Bishaw Gorham began operations in Australia in 1986 and in 2004 joined the RPS Group, Europe's leading environmental consultancy. Our Western Australian based environmental management consulting practice currently employs more than 150 people. We have developed a highly respected reputation for technical and pragmatic environmental expertise and are recognised leaders in this market. RPS offers professional advice and technical support services on a wide range of environmental disciplines to provide comprehensive and authoritative environmental services at all stages of industrial, resource and land (residential and resort) development projects.

Services:

- Environmental project management
- Environmental impact assessment and documentation
- Environmental management scoping and planning
- Contamination assessment and clean up
- Environmental management and monitoring
- Strategic environmental advice
- Marine and terrestrial ecology
- Water management

CORPORATE MEMBER DETAILS

Aquaterra

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Profile

Aquaterra is a Perth based consultancy providing environmental and water resources services to clients in Australia and internationally. Our team comprises environmental engineers and scientists, hydrogeologists and water resources engineers. Our people come from varied backgrounds and have a broad range of Australian and international experience. The main focus of our in-house environmental expertise is to provide strategic advice to industry and develop practical and cost effective solutions for managing environmental aspects of their operations. This is complemented by our industry-leading expertise in the development, planning and management of groundwater and surface water resources.

Services:

- Environmental Impact Assessment and Project Scoping
- Environmental Audits
- Environmental Management Systems Audit and Advice
- Stakeholder Engagement
- Mine Dewatering and Water Resource Modelling
- Contaminant transport and capture zone modelling
- Strategic Environmental Planning
- Project Approvals and Government Liaison
- Environmental and Land Use Policy
- Water Supply Systems (groundwater and surface water)
- Water Management
- Mine Closure Planning

Astron Environmental Services

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Profile

Worley Astron is an Australian owned consulting group formed in 1985, which has offices in Perth, Karratha and interstate. The company specialises in resource and infrastructure developments such as petrochemical projects, minesites, island developments, ports and oil facilities. Its capabilities include environmental impact assessment, biological surveys, environmental audits and statutory submissions. In-house expertise includes terrestrial ecology, flora and fauna surveys, rehabilitation, hydrogeology, remediation, waste water and environmental engineering.

Services:

- Environmental impact assessment
- Government reports (annual, triennial, CER, PER etc.)
- Environmental management plans
- Rehabilitation (design, supervision and execution)
- Research and investigations (seed germination, micropropagation, dust suppression)
- Aboriginal Liaison - Community Consultation
- Biological surveys and monitoring (vegetation/flora, fauna)
- Environmental audits
- Contaminated sites (assessment and remediation)
- Compliance monitoring
- Ecological field studies
- Groundwater, soil and surface water monitoring

Cardno Environmental Services

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Profile

Cardno Environmental Services retains a diverse team of environmental scientists, environmental planners, environmental and civil engineers and a range of other professional and technical personnel. Our people have backgrounds in consultancy, industry and state/local/commonwealth government with experience at state, national and international levels. We work closely with a range of specialist sub-consultants to complement our own capabilities and provide leading skills and experience to our clients. We service a range of clients in the mining and industrial, property and urban development, defence, infrastructure, agriculture, natural resource management and government sectors and our consultancy work spans the full project lifecycle.

Services:

- The environmental aspects of land use planning and urban development approvals
- Terrestrial and marine/freshwater ecology
- Contaminated land and Acid Sulfate Soils
- Coastal and marine processes
- Mining and industrial environmental management and approvals
- Sustainability and solid waste management
- Hydrology and hydraulics (including water sensitive urban design and water quality)

Coffey Environments

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Profile

Coffey Environments is a leading provider of environmental, sustainable engineering and occupational health and safety services to the Australian and Asia Pacific markets. With the capacity to plan and implement a full range of environmental studies, including environmental impact assessments for mining and mineral, industrial, resource, port and urban development projects, Coffey Environments is committed to providing specialist knowledge and extraordinary outcomes.

Our clients are supported by a specialist consultancy helping to improve the lives of world communities, and employs in excess of 500 dedicated and experienced staff. Coffey Environments is supported by a network of offices locally and in the South West of Perth in Dunsborough. We deliver clients a business partnership based on quality, service, trust and innovation and offer a range of tailored solutions to meet clients' needs.

Services:

- Environmental impact assessments
- Wetland assessment and monitoring
- Land capability assessments
- Coastal management and planning
- Hazardous wastes
- Environmental management and auditing
- Flora, vegetation and fauna surveys
- Contaminated site assessments and remediation
- EPA referrals and documentation
- Land use capability assessments

Dalcon Environmental

820 Beaufort Street Inglewood, WA 6052

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Mobile: 0414 586 946

Email: stuart@dalcon.com.au

Profile

Dalcon Environmental provides research and consultancy services in marine, freshwater and salt lake ecology, mosquito monitoring and terrestrial invertebrate ecology.

Services: phytoplankton, macroinvertebrate and zooplankton/infauna surveys and analyses; paleolimnological analyses (diatoms); mosquito monitoring programs and terrestrial invertebrate surveys.

Issues: harmful algal blooms, drinking water quality, nutrient enrichment, wastewater management, aquatic biotoxins, mosquito control and mining impacts on salt lake ecosystems (especially dewatering).

Dalcon Environmental is currently the only agency in Western Australia participating in the NATA proficiency testing program for phytoplankton identification and enumeration. Mosquito monitoring staff have all completed the Mosquito Management course run by Department of Health WA.

Services:

- Biological/Limnological surveys and monitoring
- Water quality assessment
- Zooplankton ecology and taxonomy
- Infauna ecology and taxonomy
- Ecotoxicology investigations
- Palaeolimnological analysis (diatoms and pollen)
- Phytoplankton/Periphyton ecology and taxonomy
- Macroinvertebrate ecology and taxonomy
- Identification and management of potentially toxic phytoplankton
- Education and training

Ecologia Environmental Consultants

1025 Wellington Street West Perth, WA 6005

Telephone: 9322 1944

Fax: 9322 1599

Email: ecologia@ecologia.com.au

Profile

Ecologia Environmental Consultants specialise in environmental impact assessment and management providing services throughout Australia. Project capabilities encompass large scale operations in remote arid areas to small local assessments with limited budgets. The consultancy has in-house expertise in a good range of environmental disciplines including botany, zoology, environmental planning, marine science, coastal planning, environmental auditing and rehabilitation. Ecologia has experience in completing Notices of Intent and annual environmental reports. They also have the expertise to technically certify NOI's. In addition the consultancy maintains a working relationship with a variety of sub consultants to provide technical input where required.

Services:

- Environmental management and impact assessment
- Flora and fauna surveys
- Restoration ecology
- Environmental rehabilitation
- Biological research programs
- Environmental audits and compliance reports
- Vegetation mapping and analysis
- Rare flora and fauna studies
- Impact statements and impact management studies
- Monitoring programs
- Dieback disease management
- Marine studies and coastal management

Ecoscape (Aust.) Pty Ltd

9 Stirling Highway North Fremantle, WA 6159

Telephone: 9430 8955

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Mobile: 0417 926 545

Email: mail@ecoscape.com.au

Profile

Ecoscape Australia Pty Ltd is a specialist firm consulting in environmental science, landscape architecture and environmental mapping. Established in 1986 Ecoscape provides a unique range of professional services applied to the management and sustainable development of natural resources. The business incorporates experienced and well qualified environmental scientists, biologists, landscape architects, horticulturists, mapping specialists and can draw on a range of sub-consultants to compliment its own skill base. Ecoscape has also participated as a consortium partner with many well established planning, architectural, engineering and landscape architecture firms, as well as prominent artists.

Services:

- Environmental planning and management
- Environmental impact assessment
- Coastal planning, design & management
- Wetland assessment, management & restoration
- Bushland condition mapping
- Restoration Ecology, bush regeneration
- Biological surveys, including river surveys
- Urban design
- Ecotourism
- Environmental auditing and monitoring
- Community consultation
- Environmental mapping (Microstation, GIS)

ENVIRON Australia Pty Ltd

Suite 3, Level 2 200 Adelaide Terrace East Perth, WA 6004

Telephone: 9225 5199

Fax: 9225 5155

Email: environ-perth@environcorp.com

Profile

ENVIRON is a US based environmental consulting company which has offices in Perth, Sydney, Melbourne and Maitland, and throughout Asia, Europe and the US. Worldwide, ENVIRON provides state-of-the-art scientific, engineering and strategic risk management services to clients addressing a wide variety of public health and environmental risk issues. The key staff leading the Perth operations bring to the firm years of experience in the region with an extensive knowledge of environmental and related issues faced in the local and regional regulatory climate.

Services:

- Environmental impact assessment and project approvals
- Strategic environmental advice
- Environmental Management Systems
- Sustainability and Corporate Responsibility Services
- Energy efficiency and Greenhouse management services
- Air quality management
- Government and stakeholder consultation
- Environmental auditing site assessments and due diligence
- Strategic mine closure planning
- Environmental baseline studies

Gardline Environmental

Unit 2 22 Blackly Row Cockburn Central, WA 6164

Telephone: 9499 6800

Fax: 9499 6899

Email: marinesciences@gardline.com.au

Profile

Gardline Environmental is a market leader in the provision of environmental data collection and consultancy services, shallow water surveys, positioning, oceanography and marine mammal observations.

Since the introduction of the Oceanography Group in 1984, and subsequent formation Gardline Environmental Limited (GEL) in 2003, GEL has expanded and diversified its expertise to meet present requirements in the rapidly expanding environmental market. Supported by the company's considerable reputation in marine geophysics, hydrography, digital mapping, underwater engineering, oceanography, positioning and its dedicated fleet of survey vessels, Gardline Environmental has established itself firmly within European and foreign markets.

Services:

- Environmental project management
- Marine/Coastal environmental habitat assessments
- Metocean studies and modelling
- Data analysis and interpretation
- Marine/Coastal environmental baseline studies including biota, water and sediment quality
- Environmental Impact Assessments
- Provision of seismic survey advice (Marine Mammal Observers)

Mattiske Consulting Pty Ltd

PO Box 437, Kalamunda , WA 6076

Telephone: 9257 1625

Fax: 9257 1640

Email: libby.mattiske@mattiske.com.au

Profile

Mattiske Consulting Pty Ltd is a medium sized Western Australian owned and operated company. Mattiske Consulting Pty Ltd's team includes a range of highly motivated and skilled graduates. Most of the company's consulting activities are directed at gathering and interpreting botanical, biological and ecological data. The main areas include baseline flora, vegetation and fauna studies and assessment of rehabilitation areas.

Services:

- Flora and vegetation studies
- Data management
- Revegetation of disturbed areas
- Wetlands
- Land care issues
- Environmental auditing
- Project management

Ninox Wildlife Consulting

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Profile

Ninox Wildlife Consulting has provided expertise in fauna surveys to mining and development companies, government, natural resource consultants and engineers since 1981. Over one hundred and eighty projects have been completed to date and have included areas in the Kimberley, Pilbara, Goldfields, Wheatbelt, south-west forests and coastal plain. These projects have included mining and development proposals, service corridors, National Park and Reserve assessments, monitoring effects of pollution on vertebrate and invertebrate fauna, and monitoring of rehabilitation after mining.

Services:

- Comprehensive and integrated surveys of vertebrate and invertebrate fauna, flora and vegetation
- Monitoring of impact and rehabilitation
- Rare fauna assessment
- Assessment of habitat and conservation significance
- Data analysis

Outback Ecology Services

1/71 Troy Terrace Jolimont, WA 6014

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Email: admin@outbackecology.com

Profile

Outback Ecology is an environmental management consultancy that works closely with the Australian mining industry. Harley Lacy (Managing Director), established the practice in 1997. Harley has over twenty years experience working in rangelands, mining, environment and agriculture. Dr David Jasper (Principal Scientist) also has over twenty years experience in topsoil management, soil and waste characterisation, and soil profile reconstruction.

Outback Ecology, with over forty scientists, and a network of associated consultants, offers a professional and diligent team that can provide a broad range of environmental services.

Services:

- Mine rehabilitation and ecosystem monitoring
- Progressive mine closure systems
- Tailing facility decommissioning, including cover design
- Liaison with regulatory authorities and statutory submissions
- Salt lake ecology and monitoring
- Optimum reconstruction of soil profiles after mining
- Closed mine environmental management and monitoring
- Waste landform design, and cost optimisation
- Mine waste and tailing revegetation
- Environmental auditing
- Flora and fauna baseline surveys and monitoring

Parsons Brinckerhoff

503 Murray Street Perth, WA 6000

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Profile

PB is one of the world's leading planning, environment and infrastructure firms. We employ over twelve thousand people worldwide to work with our clients to reach their desired project and program outcomes.

We are focused on delivering practical solutions, and our experience has allowed us to build lasting relationships with our clients. We are proud that the majority of our work comes from repeat purchase, and that our clients consistently rate us 'best practice' for both our technical delivery and our client service.

We combine our core capabilities in design, planning and management with new approaches to project delivery.

Services:

- Environmental impact assessment documentation, environmental management plans, systems and approvals and project scoping
- Soil and groundwater contamination assessment and remediation
- Strategic environmental advice
- Environmental Management Systems
- Sustainability and corporate responsibility services
- Water allocation and environmental water provisions
- Environmental due diligence compliance auditing and monitoring
- Stakeholder engagement and community consultation
- Acid Sulfate soil investigation and management
- Geographic information systems
- Water resource assessment, monitoring and management plans
- Environmental legislation and policies

Rockwater Pty Ltd

76 Jersey St Jolimont, WA 6014

Telephone: 9284 0222

Fax: 9284 1785

Email: consult@rockwater.com.au

Profile

Rockwater is a specialist hydrogeological and environmental consulting firm that has been operating in Australia since 1974. The company has offices in Western Australia and Queensland with over twenty professional staff comprising a core of long-term senior staff together with selected mid-level and junior staff. Our team of environmental scientists, hydrogeologists and hydrogeochemists has a broad range of Australian and international experience. Rockwater combines broad experience and training with current technology and techniques to offer independent expert advice and services in all aspects of environmental science, groundwater engineering and hydrogeology.

Services:

- Environmental impact assessment and environmental management
- Groundwater sampling, water level monitoring and geochemical assessment
- Contamination assessment and remediation
- Mine dewatering assessment and design
- Ground water supply: exploration, geophysics, bore design, supervision, testing and development
- Aquifer storage and recovery studies, including design
- Biological surveys (flora/vegetation, stygofauna and troglofauna)
- Rehabilitation planning and monitoring
- Investigations of wetlands, salinisation and seawater intrusion
- Groundwater flow and solute transport modelling
- Geothermal investigations including bore design
- Independent hydrogeological reviews

Sinclair Knight Merz Pty Ltd

7th Floor, Durack Centre, 263 Adelaide Terrace Perth, WA 6001

Telephone: 9268 4400

Fax: 9268 4488

Email: bjbrown@skm.com.au

Profile

Sinclair Knight Merz is a large established Australian owned company, with a strong environmental services capability and comprises professional engineers, planners, scientists and economists, supported by technical and administrative staff, with a total staff of over sixteen hundred. The firm is one of the largest and most experienced consultancy firms in Australia, offering services which span the entire spectrum of the environmental market. With offices in all the main regional centres across Australia and South East Asia, they provide multidisciplinary services in mining, industrial, oil and gas, and commercial fields throughout Australia and internationally. The Company is quality endorsed to ISO 9000.

Services:

- Marine and coastal monitoring
- Water and air quality management
- Contaminated site investigations and site remediation
- Environmental impact assessment
- Sewage and wastewater treatment
- Drainage and surface water control
- Environmental management systems
- Environmental auditing
- National pollution inventory
- Environmental approvals and technical certification
- Rehabilitation and mine closure
- Groundwater management

Strategen

Suite 7 643 Newcastle Street Leederville, WA 6007

Telephone: 9228 6900

Fax: 9227 8344

Email: c.welker@strategen.com.au

Profile

Strategen is a Western Australian company which has provided specialist environmental consultancy services since 1994. Strategen staff have many years of experience in environmental and water resource management, environmental impact assessment, environmental policy and procedures and the conduct of environmental audits. Strategen advises on air quality management and community consultation, determines environmental water provisions and facilitates projects through the environmental approval process. Strategen is dedicated to customer focus and the experienced staff take care to advise clients of relevant issues and provide strategies for managing environmental and community issues. Strategen also forms strategic alliances with professional subcontractors with specialised expertise.

Services:

- Environmental Impact Assessment
- Strategic Advice
- Environmental Audits
- Pollutant and Waste Inventories
- Water Quality Protection
- Air Dispersion Modelling and Odour Assessment
- Rehabilitation and Revegetation
- Environmental Management Plans and Procedures and Monitoring Programs
- Environmental Legislation and Policies
- Water Resource Assessment and Management Plans
- Water Allocation and Environmental Water Provisions

Subterranean Ecology Pty Ltd

Suite 8 37 Cedric St Stirling, WA 6021

Telephone: 9349 7695

Fax: 9349 7695

Mobile: 0401 436 968

Email: info@subterraneanecology.com.au

Profile

Subterranean Ecology is a leading West Australian based consultancy that specializes in Groundwater Dependent Ecosystems (GDEs) - subterranean fauna (stygo fauna and troglodytes), terrestrial invertebrate fauna including Short Range Endemics (SREs), caves and karst.

Directed by Dr Stefan Eberhard, BSc., MSc., PhD, one of Australia's leading scientists in this field, with more than twenty two years experience in research of subterranean fauna, groundwater-dependent ecosystems, and caves we have a proven track record with delivery on more than one hundred projects for industry and government, primarily in Western Australia. This consultancy provides scientific and environmental services to the mining industry, development companies, local communities, individuals, government, and other stakeholders who require independent expert advice.

We are committed to continual improvement and best practice in scientific and environmental services, and delivering outcomes which comply with government EIA requirements for project approvals.

Services:

- Desktop reviews and technical advise
- Field survey, sampling and monitoring
- Environmental impact assessment (EIA)
- Reports, management, monitoring and recovery plans
- Specimen identification, taxonomy & DNA molecular genetics
- Data analysis
- Independent expert reviews
- Cave management plans and cave diving

Syrinx Environmental Pty Ltd

12 Monger Street Perth, WA 6000

Telephone: 9227 9355

Fax: 9227 5033

Email: info@syrinx.net.au

Profile

Syrinx Environmental provides a broad range of integrated science, design, research and implementation services, based on a whole-of-project concept ensuring a practical, creative and cost-effective approach to problem solving. Leading edge science and design principles are incorporated into operational schedules resulting in best practice implementation. This 'end-use' approach to problem solving, is equally vital for urban, wetland, coastal, industrial and agricultural landscapes. Syrinx maintains an outstanding track records across a broad range of projects, including innovative passive remediation technologies for wastewater treatment, urban and rural restoration, bioengineering, landscape design and environmental planning. Syrinx offers creative solutions to environmental and land-use challenges, through lateral evaluation of constraints and possibilities unique to each site.

Services:

- Wastewater and acid mine drainage remediation
- Horticultural botany
- Wetland creation
- Restoration Ecology
- Operations
- Landscape and Architectural design
- Research
- Environmental impact assessment
- Vegetation/flora surveys
- Biological nutrient-filters
- Master planning
- Remediation

Tranen Revegetation Systems

1/110 Jersey Street Jolimont, WA 6014

Telephone: 9284 1399

Fax: 9284 1377

Mobile: 0402 844 111

Email: email@tranen.com.au

Profile

Tranen is a West Australian company that has been providing project management and environmental consultancy services since 1992. Our qualified and professional team offer design, implementation and management of rehabilitation, revegetation, community development and other environmental services. Tranen has been involved with many overseas projects in Asia, Africa and the South Pacific.

Services:

- Environmental Management
- Baseline and Feasibility Studies
- Erosion Control Measures and Surface Water Management
- Training and Technical Assistance
- Australian Native Seed Supply, Processing and Treatment
- Rehabilitation and Revegetation - large and small scale
- Community Development and Liaison
- Assessment, Monitoring and Reporting
- Research and Planning

URS Australia

Level 3, Hyatt Centre, 20 Terrace Road, East Perth, WA 6004

Telephone: 9221 1630

Fax: 9221 1639

Email: perth@urscorp.com

Profile

URS is a worldwide professional service firm providing comprehensive, integrated environmental and engineering services in addition to civil and remedial design and construction services. URS has offices in more than twenty-six countries and has more than fifteen thousand staff worldwide. The Perth office is a quality endorsed company which has achieved certification to ISO 9001.

Services:

- Groundwater resource development and management
- Dewatering, drainage and environmental hydrology
- Forestry
- Environmental Auditing
- Soil geomechanics and geotechnical engineering (including offshore investigations)
- Environmental Site Investigation and Remediation
- Baseline surveys and Environmental monitoring and modelling (terrestrial, wetlands, marine, and coastal surveys, surface water, groundwater, air, soils)
- Environmental impact assessment
- Environmental management systems (EMS)
- Geographic information systems
- Sustainability (including community development and consultation)
- Natural resource management

Western Radiation Services

Unit 15 88-90 Briggs Street Welshpool, WA 6106

Telephone: 9470 3000

Fax: 9470 3001

Email: admin@westernradiation.com.au

Profile

WRS is a NATA accredited radioactivity analytical laboratory providing analytical services to Federal and State governments, industry, food services and medical clients. WRS also provides a consultancy service for compliance monitoring, waste management and contaminated sites. A monitoring and consultancy service for electro-magnetic fields (power frequencies) is also available.

Services:

- Analysis of water, soils, ores, gases and air for natural and contaminant radioactive elements.
- Compliance testing for radioactive content of ores, waste, foodstuffs, water
- Certification of radioactivity content of materials for export
- Provision of familiarisation training & training materials to; mining & metals industry, oil & gas industry and water supply & treatment industry

WorleyParsons Services (Pty) Ltd

Level 7, QV1, 250 St Georges Terrace PERTH, WA 6000

Telephone: 6311 6748

Fax: 9278 8110

Email: annette.jacobs@worleyparsons.com

Profile

WorleyParsons Services (Pty) Ltd is an Australian owned, leading multi-disciplinary engineering consultancy, with offices throughout Western Australia, Australia, Asia-Pacific Region and the Middle East. Worley has over four thousand five hundred employees and an indicated turnover of \$450 million for year ending June 30, 2004. We deliver projects across varying disciplines, ranging in size from small design only consultancies to participating in large multi-national consortia for projects exceeding \$1 billion in value. At the core of Worley's business philosophy is a desire to establish long term relationships with our clients and partners. Worley has also a strong focus on business partnering, often undertaking joint ventures, providing venture capital and working to business structures, which provide opportunities to share in both project risks and rewards. Worley is a publicly listed company, enjoying unprecedented growth, mainly through business alliances and partnering.

Services:

- Transport Infrastructure
- Rail Planning and Infrastructure Delivery
- Civil Structure and Geotechnical
- Ports and Harbours
- Mining Industrial and Plant
- Industrial and Recreational
- Hydrocarbons
- Minerals and Metals

INDIVIDUAL MEMBER DETAILS

Bailey, Mr Mark

PO Box 3172 Nedlands, WA 6009

Telephone: 9389 9669

Fax: 9389 9660

Email: mark.bailey@oceanica.com.au

Profile:

Mark has substantial professional experience in engineering and marine environmental work. He commenced his career as a civil engineer in 1986 and worked in marine construction and commercial project management. Since completing his MEngSc in 1996 he has worked continuously in the fields of marine environmental impact studies, environmental project management and modelling of aquatic ecosystems. Mark is a Certified Practising Engineer with the Institution of Engineers Australia and a graduate of the Australian Institute of Company Directors. Mark has strategic, commercial and human resources management skills developed in his role as a project manager and a director of Oceanica since 2002.

Baldock, Mr Kelvin (Kel)

31 Hannan Place Huntingdale, WA 6110

Telephone: 9455 5477 9398 2213

Fax: 9455 5488

Mobile: 0419 241 739

Email: kel.baldock@greenbase.com.au

Profile:

Kel Baldock established Hydro-Smart in 1995 to cater for the growing demands of environmental water monitoring and catchment based project and planning services. He is a qualified Hydrographer with over thirty five years experience in the water resources industry. Recent projects have included flow and water quality monitoring, data appraisal and review and production of flow information for a range of clients.

Kel also specialises in soil moisture monitoring and advising on soil moisture monitoring networks, research site establishment and monitoring of all components of the water cycle, ground water monitoring and data appraisal.

As a director of Hydro-Smart kel oversees a range of services to Natural Resource Management Groups and Agencies to support their efforts in monitoring and evaluation.

Services:

- Hydrography and Hydrologic data
- Water / water resource site and network appraisal
- Water quality measurement programs - development & review
- Hydrologic research - measurement, analysis and reporting
- Groundwater network site design, specification and monitoring programs
- Soil moisture monitoring and advice (licenced operator)
- Project planning, management and proposal preparation
- Salinity project formulation and planning
- Catchment water resource reviews, planning and advice

Bamford, Dr Michael (Mike)

23 Plover Way, Kingsley, WA 6026

Telephone: 9309 3671

Fax: 9409 2710

Email: bamford.consulting@iinet.net.au

Profile:

Dr Mike Bamford completed post-graduate research in small vertebrate ecology in 1986 and has been the principal scientist of MJ & AR Bamford Consulting Ecologists since 1989. He has undertaken studies throughout Western Australia, the Northern Territory and in Queensland for industry and local, state and federal government agencies. Projects have included assessments of the conservation value of urban bushland, fauna surveys in remote locations (including the Great Sandy Desert, Pilbara, Eastern Goldfields, interior of the Northern Territory, Cape York Peninsula and Christmas Island) and long-term ecological studies monitoring fauna populations during rehabilitation.

Services:

- Fauna studies for environmental review and environmental management programmes
- Environmental education
- Management of wetland ecosystems
- Wildlife art and biological illustrations wildlife art and biological illustrations
- Proof-reading and editing of scientific reports and articles for a more general audience
- Preparation of information brochures
- Surveys and sampling of: invertebrates, frogs, reptiles, birds (censussing and banding, including waterbirds; approved to use mist-nets and cannon nets) and mammals

Barton, Ms Elizabeth

Unit 2 22 Blackly Row Cockburn Central, WA 6164

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Fax: 9499 6899

Mobile: 0408 003 725

Email: liz.barton@gardline.com.au

Profile:

Elizabeth is an experienced offshore field environmental scientist, self motivated and adaptable. She has been involved in numerous projects, worldwide, collecting seabed sediment/water samples, photographic images and video footage of the seabed, data analysis and reporting.

Now working as a Project Manager based in Gardline Regional (Australia and South East Asia) office to develop Gardline Environmental in the Australian market.

Prior to her position with Gardline, she has worked in marine conservation (intertidal), educating the public and local community, liaising with partner organisations and external interests to promote current marine issues.

Elizabeth has worked as a laboratory chemist, which has provide her with a back ground in laboratory techniques and the ability to acquire good quality data in the field.

Services:

- Project Management
- Marine Environmental and Geophysical Survey Packages (Sediment Chemistry, infauna, water Column, metocean)
- Marine biology and environmental science
- Data analysis (Interpretation of sea bed imagery, sediment chemistry, species identification, habitat mapping, statistical analysis) and reporting
- Provision of seismic surveys and advice (Marine mammal surveys, including passive acoustic monitoring)
- Client liaison and marketing
- Data acquisition (Advice on and provision of the most appropriate equipment, with over four years field experience)

Bayley, Mr Phillip (Phil)

30 Thomas Street South Fremantle, WA 6162

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Fax: 9335 9160

Mobile: 0427 808 633

Email: bayley@iinet.net.au

Profile:

Phil Bayley is an Environmental Scientist with twenty-two years experience in the environmental field, including sixteen years as a private consultant. His experience covers a broad range including environmental assessment and approvals for mining, industrial, land development and infrastructure projects, planning schemes, environmental management planning, contamination assessment and waste auditing.

Services:

- Environmental assessments for mining and other projects
- Environmental management plans
- Land capability assessment for subdivisions, on-site effluent disposal, etc
- Wetland, surface water and groundwater management
- Nutrient management
- Site and route selection

Beckwith, Dr Jo Ann

74 Park Street Como, WA 6152

Telephone: 9450 8711

Fax: 9450 8722

Mobile: 0424 573 555

Email: jbeckwit@bigpond.net.au

Profile:

Jo Ann Beckwith (Director - Beckwith Environmental Planning Pty Ltd). Dr. Beckwith has more than fifteen years experience as an environmental planner and social scientist. She holds a PhD in Psychology, a Master's in environmental planning and a BSc in Biology. She has worked in Australia, Canada and the U.S.A. Prior to starting her own firm she was a senior research scientist with the CSIRO and an associate professor of Environmental planning and policy at Michigan State University. Her research, teaching and consulting projects have focused on environmental and social impact assessment, conflict management, risk perception, environmental attitudes and deliberative democracy.

Services:

- Design and conduct strategic and social impact assessments
- Evaluations in multi-objective planning contexts (e.g. sustainability assessments and policy development)
- Risk perception research and risk communication strategies
- Research on environmental attitudes and behaviours
- Public involvement, public education and outreach
- Multi-criteria analysis
- Alternative dispute resolution
- Capacity building and training
- Management of multi-disciplinary studies (e.g. EIA's)

Bell, Mr Brian

Suite 3, Level 2 200 Adelaide Terrace East Perth, WA 6004

Telephone: 9225 5199

Fax: 9225 5155

Mobile: 0418 914 634

Email: bbell@environcorp.com

Profile:

Brian Bell is the Manager of ENVIRON's Perth office and has about twenty years experience in environmental impact assessment (State and Federal), environmental management, air dispersion modelling, air quality and meteorological monitoring and government consultation. In addition to providing services in these fields, he also provides strategic environmental advice to his clients.

Services:

- Environmental impact assessment
- Environmental management programmes
- Strategic environmental advice
- Notice of Intent preparation and certification
- Air dispersion modelling
- Air quality monitoring
- Meteorological monitoring

Bennett, Dr Eleanor

21 Currawong Drive Gooseberry Hill, WA 6076

Telephone: 9293 2998

Fax: 9293 2998

Email: ebennett@cygnus.uwa.edu.au

Profile:

Eleanor Bennett has over twenty five years experience in plant identification and botanical surveys. Her experience covers all of Western Australia including plant identification, flora and vegetation surveys, rare flora searches and weed surveys. She has prepared management plans and NOI's, planned and undertaken assessment of rehabilitation and has been involved in the preparation of ERMP.

Services:

- Plant identification
- Rehabilitation planning and monitoring.
- Bushland management
- Weed surveys
- Flora and vegetation surveys
- Project management
- Rare and Priority flora surveys
- Education

Bennetts, Ms Kristen

290 Churchill Avenue Subiaco, WA 6008

Telephone: 9382 4744

Fax: 9382 1177

Email: bennettsk@rpsgroup.com.au

Profile:

Kristen Bennetts is a Managing Scientist at RPS Bowman Bishaw Gorham and holds a Bachelor of Environmental Science from Murdoch University. Kristen has more than seven years experience as an environmental consultant specialising in environmental impact assessment, environmental management and contaminated land assessment for a range of land development and industrial projects. Kristen's regular responsibilities include project management, data assessment, report preparation, provision of strategic advice and regulatory liaison.

Services:

- Environmental impact assessment
- Environmental approvals and licencing
- Data analysis and interpretation
- Due diligence environmental investigations
- Environmental management and monitoring programs
- Contaminated site assessment and management

Biggs, Mr Bill

284 The Boulevard City Beach, WA 6015

Telephone: 9385 7783

Mobile: 0418 943 624

Email: bill.biggs@valback.com.au

Profile:

Bill has specialised in closure aspects of mineral and resources projects from both the practical and theoretical sides and having had direct responsibility for mine closure and contributing to state and national policy and strategy on the management of closure. He has extensive experience in brokering solutions for project development approvals in WA. He has also played a significant role in the review and development of West Australian legislation, working both with government and industry. Bill has also played an extensive role in preparing and developing training and development programs.

Services:

- Assistance and coordination of government approvals
- Mine Closure Costing
- Development of Mine Closure Plans
- Development and Implementation of Community and government liaison programs

Bird, Mr Scott

Level 7 182 St George's Terrace Perth, WA 6000

Telephone: 9289 8360

Fax: 9322 4251

Email: scott.bird@env.net.au

Profile:

Scott Bird is the Managing Director of the environmental consultancy firm ENV. Australia and has practiced as an environmental management consultant in Western Australia since 1987. He has managed a wide range of environmental impact assessments ranging from overseas mining projects (to world bank standards) through to residential subdivisions involving the WA approval process. Other projects include canal and harbour developments, industrial projects and waste management projects. Scott has specialist skills in contamination and the environment particularly with regard to the assessment and remediation of soils, waters and sediments.

Services:

- Project management
- Environmental impact assessment for mining and other projects
- Environmental management plans
- Water quality assessment
- Environmental auditing
- Contaminated site assessment and remediation
- Strategic approvals advice

Blandford, Mr Douglas (Doug)

PO Box 268 Toodyay, WA 6566

Telephone: 9574 4465

Mobile: 0418 948 347

Email: blande@bigpond.com

Profile:

Doug Blandford, Principal Environmental Consultant with D C Blandford & Associates Pty Ltd has had thirty years experience in natural resource management, with twenty years direct consulting on mining and resource development projects. He has occupied research and extension positions in resource management throughout Australia, spent thirteen months in Antarctica as leader of an Australian National Antarctic Research Expedition and was an adviser to the Government of Saudi Arabia for over four years. Doug has extensive experience in environmental impact assessment and the development and implementation of environmental management programs. Doug is a specialist in minesite hydrology, erosion control and sediment management. His overseas experience includes Antarctica, Saudi Arabia, Indonesia, Malaysia, Tanzania, Zimbabwe, Zambia, India and Congo (Democratic Republic of).

Services:

- Environmental impact assessment
- Design and implementation of environmental studies
- Report writing
- Land degradation studies - reclamation work
- Drainage basin management
- Waste rock dump management
- Land capability studies
- Soil erosion control
- Environmental earth sciences
- Minesite rehabilitation
- Decommissioning design and implementation
- Geology-landforms-soils-hydrologic relationships and impact assessment

Bourgault, Dr Philip (Phil)

290 Churchill Avenue, Subiaco, WA 6008

Telephone: 9382 4744

Mobile: 0414 261 160

Fax: 9382 1177

Email: bourgaultp@rpsgroup.com.au

Profile:

Philip Bourgault is an associate with RPS Bowman Bishaw Gorham. He holds a B.Sc.(Hons) and PhD from Murdoch University and has practised as a consultant since 1994. Philip offers specific experience in the assessment and management of contaminated sites, groundwater flow and contaminant transport modelling, acid sulphate soils, waste management, due diligence enquiries and dryland salinity management.

Services:

- Site contamination assessment and management
- Land capability assessment
- Groundwater modelling
- Solute transport modelling
- Dryland salinity management
- Turf and irrigation management

Bowman, Mr Martin

290 Churchill Avenue, Subiaco, WA 6008

Telephone: 9382 4744

Mobile: 0408 942 909

Fax: 9382 1177

Email: bowmanm@rpsgroup.com.au

Profile:

Martin Bowman is an Environmental Consultant with fifteen years experience in land development and industrial development projects, focusing on management of water and wastewater, nutrient management and design and management solutions for environmentally sensitive areas. Martin is a Principal of RPS Bowman Bishaw Gorham. He is responsible for project co-ordination and technical input to land development and industrial, resource projects, waste management studies and pollution control projects.

Services:

- Strategic environmental advice
- Land development projects
- Urban and industrial waste management
- Expert testimony
- Tourism and resort projects
- Industrial developments
- Water and wastewater management
- Mining and mineral processing

Braid, Mr John

13 Seaflower Way Gabbadah, WA 6041

Telephone: 9577 1767

Email: jbraid@oceanbroadband.net

Profile:

John Braid is a Certified Environmental Practitioner with broad based work experience and qualifications that gives him extensive knowledge in natural resource management of most fields associated with this profession. A BSc with First Class Honours in Environmental Management and his back ground as a practicing engineering surveyor, has provided him with the know how to implement solutions that enhance natural resource management.

This is coupled with a commitment to involve local communities in the process of natural resource management; a commitment to professional ethics, and backed with more than fifteen years experience in environmental management.

Services:

- Environmental Project Management
- Natural Resource Management
- Flora Surveys
- Environmental Impact Assessment
- Coastal Zone Management
- Ecological Restoration Planning
- Natural Area Assessment
- Fauna Surveys
- Community Communication

Brown, Dr Barbara

GPO Box H615, Perth, WA 6001

Telephone: 9268 4421

Fax: 9268 9625

Email: bbrown@skm.com.au

Profile:

Dr Barbara Brown is a senior environmental physicist with eighteen years experience in environmental investigations and management. Her specialty areas include air and water quality studies, the design and supervision of environmental monitoring programmes and the management of large, multi-disciplined environmental impact assessments.

Services:

- Air quality modelling
- Meteorological and oceanographic measurement programmes
- Strategic environmental advice
- Water quality modelling
- Project management
- Environmental impact assessment

Brown, Mr Evan

50 Chatsworth Drive Erskine, WA 6210

Telephone: 9582 7772

Fax: 9582 9884

Mobile: 0427 127 772

Email: mail@glevan.com.au

Profile:

As the director of Glevan Consulting, Evan is accredited in Phytophthora detection, diagnosis, mapping and management by Department of Conservation and Land Management. He also has extensive field experience from Eneabba to Ravensthorpe. Evan is also experienced in asset survey and mapping using GPS equipment.

Services:

- Dieback mapping and assessment
- Asset survey

Buckee, Ms Joanna (Jo)

Mobile: 0407 433 472

Email: jo.buckee@sctelco.net.au

Profile:

Jo is an environmental scientist with a wide range of experience and over 15 years in consultancy. She has a strong interest and expertise in marine science, but also knowledge of freshwater, groundwater, wetlands, aquaculture and fisheries science and ecotourism. Jo has the capability to work on all levels; from strategic planning and policy development; through to collection and presentation of field data.

Jo lived and worked at the Abrolhos and Cocos Islands for a number of years. She has extensive experience in the Pilbara, but has also worked in the Kimberly, the Southwest, Queensland, Malaysia and the UAE.

Services:

- Project Management
- Environmental design
- Specialist field studies
- Data management, analysis and presentation
- Impact assessment and management planning
- Monitoring program design and implementation
- Water Quality Assessment and Monitoring
- Marine surveys
- Commercial diving (Level 1 ASA)/ Coxswain
- Public document preparation

Chandler, Mr William (Bill)

PO Box 418, Cloverdale, WA 6105

Telephone: 9470 3000

Fax: 9470 3001

Email: bill@westernradiation.com.au

Profile:

Bill Chandler is the Managing Director of Chandler & Associates (Trading as Western Radiation Services). Bill has over twenty years experience in the mining and minerals industry, specialising in air pollution monitoring and modelling, hazard assessment, co-ordination for impact assessment, management and disposal of hazardous wastes, environmental planning and monitoring, radiation protection/monitoring, radiation dose assessments, mine-sites and tailings retention systems rehabilitation. As the Environmental/Radiation Superintendent at Olympic Dam in South Australia, Bill produced and implemented the pre-operational monitoring programmes for the project, installed an automated SO2 monitoring system and supervised the setting up and implementation of flora and fauna monitoring regimes. He currently runs a laboratory analytical service for the monitoring and analysis of radioactivity in soils and water. Bill is qualified to provide certification of 'Notices of Intent' to the department of Minerals and Energy.

Services:

- Environmental assessment
- Environmental management programs
- Data management, analysis
- Air pollution
- Audits - performance
- Radiation & radioactivity analysis
- Waste management
- Contaminated sites
- Land rehabilitation
- Revegetation
- Groundwater
- Surface water, Waste water

Choo, Ms Kathy

290 Churchill Avenue Subiaco, WA 6008

Telephone: 9382 4744

Fax: 9382 1177

Mobile: 0407 479 435

Email: chook@rpsgroup.com.au

Profile:

Kathy Choo is a Managing Environmental Scientist at RPS Bowman Bishaw Gorham. Kathy completed a Bachelor of Environmental Science at Murdoch University in 1998 and was Environmental Officer within the Planning Assessments Branch of the EPA Service Unit prior to joining RPS Bowman Bishaw Gorham. Kathy is responsible for environmental assessment, reporting and advice on a range of land management and land development projects throughout Western Australia. Kathy specialises in environmental impact assessment, environmental and statutory approvals process for land development and infrastructure projects as well as strategic environmental advice.

Services:

- Environmental impact assessment
- Statutory approvals process for land development

Clark, Ms Belinda

PO Box 144 Bull Creek, WA 6149

Telephone: 9332 0671

Fax: 9332 0672

Mobile: 0409 109 360

Email: belinda@keithlindbeck.com.au

Profile:

Belinda Clark has honours qualifications in botany/zoology and has worked in the mining industry for nine years. This has included a geological technician role and experience in the use of software programmes such as Surpac and Minesight. Belinda is an environmental consultant who specializes in environmental impact assessment, minesite approvals, preparation of statutory submission documents and auditing of minesite operations. Belinda is currently Senior Environmental Scientist at Keith Lindbeck and associates, Environmental Management Consultants.

Services:

- Project environmental assessment
- Preparation of environmental management plans
- Preparation of annual environmental reports
- Preparation of mining proposals
- Preparation of decommissioning & closure plans
- Compliance and environmental audits

Cockerton, Mr Geoffrey (Geoff)

PO Box 3393 Bassendean DC, WA 6942

Telephone: 9270 0999

Fax: 6278 4988

Mobile: 0407 193 637

Email: geoff.cockerton@westernbotanical.com.au

Profile:

Geoff Cockerton established Landcare Holdings Pty Ltd (formerly Landcare Services Pty Ltd) in 1989 with his wife Tracy. Offering Environmental Consultancy Services, Native Seed Supply and Rehabilitation Consultancy and Implementation Services, Landcare Holdings Pty Ltd is based in Bassendean WA and has been involved in projects throughout southern WA including the Wheatbelt, Jarrah and Karri Forests, Yilgarn, North-eastern and Eastern Goldfields and the Murchison district. Geoff enjoys sharing his knowledge of flora, vegetation and revegetation. He is keen to build on his knowledge of the flora of the state, to implement practical rehabilitation and revegetation programs and is developing economically viable farm forestry programs utilising perennial native species. Geoff has been involved in the Revegetation Working Group, developing a revegetation policy in this state and is a founding member of the Revegetation Industry Association in WA (RIAWA).

Services:

- Flora and vegetation studies/surveys
- Preparation of notices of intent
- Environmental impact assessments
- Environmental management systems/monitoring
- Revegetation contracting
- Native seed supply
- Rehabilitation monitoring
- Landcare and landscape services

Coleman, Mr Mark

PO Box 176 Darlington, WA 6070

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Mobile: 0418 959 932

Email: mark@actis.com.au

Profile:

Mark Coleman, a Principal of Actis Environmental Services, has spent much of his working life as a Technical Adviser at most salt fields throughout Australia and internationally. He specialises in value-adding to 'waste' brine streams, for example cultivating Artemia or Parartemia. He has had many years of experience in identifying halophytic algae, cyanobacteria and marine or hypersaline phytoplankton. Since co-composing criteria for the evaluation of the discharge of saline groundwater into wetlands for the DEP, Mark has put the criteria to work in the goldfields - evaluating the discharge of saline groundwater from the mining industry into saline wetlands. The criteria were originally developed to evaluate the effects of deep drainage in the salt affected areas of the Wheatbelt.

Services:

- Evaluating saline discharges into natural ecosystems
- Management and design of wetlands
- Identification of hypersaline phytoplankton, algae and cyanobacteria
- Evaluating the suitability of areas for evaporation and to design evaporation pans
- Evaluating the biological, chemical and surface hydrological functions of wetlands

Collins, Mr Peter

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Email: acetabularia@bigpond.com

Profile:

Peter Collins holds a Bachelor of Science's (Hons) Degree from the University of Western Australia and has more than twenty-five years experience in environmental impact assessment and management planning. He has managed numerous environmental studies and has extensive field experience in marine, coastal and wetland habitats through investigations undertaken for oil exploration and production, ports, marinas, residential and tourist developments throughout Western Australia. Peter has participated in numerous baseline biological and habitat mapping studies, and has designed and implemented environmental management programs and biological and water monitoring programs for oil fields, port and harbour developments, industrial and domestic effluent outfalls, marinas and canal developments. In 1998 he established Environmental Assessment and Management Consultants to provide services to clients working in marine, coastal and aquatic environments.

Services:

- Environmental impact assessments
- Project Environmental management
- Environmental management and monitoring programmes
- Data analysis and interpretation
- Marine botany
- Coastal and wetland management
- Environmental reporting

Colman, Dr Jeremy

48 Williton Rd Karrinyup, WA 6018

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Profile:

Dr Jeremy Colman is an environmental consultant with over twenty years experience in marine research and management, much of it in the offshore oil and gas industry in Western Australia.

Jeremy provides specialist expertise in EIA and SIA, management plans, stakeholder consultation, risk management and oil spill contingency planning.

Services:

- Environmental impact assessments
- Stakeholder consultation
- Risk management
- Technical writing
- Environmental management plans
- Risk assessment
- Oil spill contingency planning
- Technical editing

Connell, Mr Garry

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Profile:

Garry Connell has qualifications in the biological sciences with fifteen years experience in environmental management and impact assessment, biological surveys and ecological research. Prior to founding Ecologia in 1989 he worked as a consultant biologist with the Department of Conservation & Land Management and Fisheries and Wildlife from 1983. Environmental studies have been carried out for mining and resource development industries, State and Commonwealth Government Departments, Local Government and Statutory Authorities. To date he has undertaken over two hundred and fifty major environmental projects resulting in technical reports and scientific journal publications. He is a Senior Environmental Scientist and Director of Ecologia Environmental Consultants.

Services:

- Environmental impact assessment
- Environmental management
- Project management
- Biological surveys
- Fauna
- Terrestrial ecology

Connelly, Ms Shirley

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Profile:

Shirley has over five years experience in the environmental consulting industry conducting marine and freshwater process and impact assessments for numerous projects in Australia and internationally. Shirley has an honours degree in Oceanography and Marine Biology from the University of Southampton (United Kingdom). Shirley's consulting career has involved a wide range of projects involving assessment and management of aquatic systems for projects in the natural resource, water supply, industrial, government and land development sectors.

Shirley's key skill set includes aquatic/marine processes and ecology, water and sediment quality and the interactions in aquatic environments.

Cowell, Miss Toni

22 Altona St West Perth, WA 6005

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Profile:

Toni Cowell is a Senior Environmental Scientist with 360 Environmental Pty Ltd. Toni completed a Bachelor of Science (Environmental) at UWA and was an Environmental Officer at the Department of Environment (Industry Regulation Section) prior to joining 360 Environmental. Toni works in a range of sectors including mining, infrastructure, utilities, property development and industrial. Toni's passion is for projects in the southwest, spending much time working in Bunbury and Albany and all places in between.

Services:

- Environmental Approvals
- Environmental Impact Assessment
- Project environmental management
- Environmental planning

Craig, Dr Gillian

PO Box 130, Ravensthorpe, WA 6346

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Profile:

Dr Gillian Craig is an applied biologist with postgraduate qualifications in botany from the University of Western Australia. She has over twenty five years experience in coastal management and rehabilitation, vegetation and flora surveys, and land care, gained while working for Government agencies, mining companies and community groups. She has written two books on WA's flora. Since 1990, Gillian has managed her own consultancy based at Ravensthorpe, gaining specialist knowledge of South Coast ecosystems.

Services:

- Project planning, coordination and management
- Rare and priority flora surveys
- Catchment management plans
- Coastal site development plans
- Regional vegetation and flora surveys
- Assessment of land for nature conservation value
- Coastal management plans
- Community Consultation

Davies, Dr James (Jim)

PO Box 117, Subiaco, WA 6904

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Profile:

Dr Jim Davies is a Civil Engineer with postgraduate qualifications in Engineering Hydrology (MSc) and Coastal Hydraulics (PhD). He has wide experience in engineering hydrology, environmental hydrology and groundwater hydrology and has worked in Nigeria, Indonesia, Malaysia, PNG and the UK, as well as in Western Australia. He established his own consultancy practice in November 1991. He is the WA representative on the National Committee on Water Engineering of the Institution of Engineers, Australia.

Services:

- Water sensitive urban design
- Surface hydrology
- Groundwater hydrology
- Groundwater hydraulics
- Drainage
- Water supply
- Nutrient and drainage management
- Flood studies
- Open channel hydraulics
- Water resources assessment

De Roach, Dr Robert

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Profile:

Robert is a PH.D. qualified Marine Biogeochemist and Senior Consultant at Oceanica Consulting, with over nine years consulting and research experience in environmental impact assessment (EIA), biological surveys, water quality management, environmental compliance, auditing & approvals.

Robert completed his postgraduate research studies on the Swan River estuary, Western Australia, where he investigated the role of benthic fauna in sediment water nutrient cycling, within the context of eutrophication management.

His professional experience mainly includes undertaking EIA and related risk assessment and biological surveys for clients associated with West Australian marine infrastructure projects and the north west shelf oil and gas industry.

Services:

- Environmental Project Management
- Environmental Risk Assessment
- Coastal & Marine Biological Surveys
- Coastal & Marine Environmental Impact Assessment
- Water Quality Management
- Regulatory Compliance Assessment

D'Espeissis, Miss Astrid

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Email: astrid@nicheconsulting.biz

Profile:

Astrid d'Espeissis completed a Bachelor of Science (Environmental Science) at The University of Western Australia in 1997. Astrid has more than ten years experience in environmental consulting.

Astrid is the sole Director of Niche Consulting Pty Ltd, a specialised environmental consultancy that provides strategic environmental advice and services for the land development industry.

Services:

- Environmental Project Management
- Statutory approvals process for land development
- Environmental Impact Assessment
- Strategic environmental advice

Donovan, Mrs Rebecca

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Profile:

Rebecca's role as an acoustical consultant throughout her career has included providing all aspects of acoustical consultancy services to clients, including modelling, reporting, and providing design advice. Upon moving up to a more senior level, Rebecca has assumed the role of supervising less experienced team members and running large-scale projects. Since relocation to WA, Rebecca has undertaken many varied projects such as large-scale industrial developments and heavy industry expansions. In Queensland, her jobs included high-rise buildings up to seventy five floors, highway upgrades, sporting stadiums, large-scale residential subdivisions and medium industry developments and expansions.

Eade, Mr Glyn

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Profile:

Glyn is Manager of Environmental Services, Western Australia with Douglas Partners, an environmental, geotechnical and groundwater consultancy. He has more than ten years of consultancy experience commencing his career as a geologist.

Following completion of a Masters in Environmental Geology Glyn joined Mott MacDonald (UK) as an Environmental Engineer.

In 2000 Glyn immigrated to Australia and took employment at Douglas Partners as Manager of Environmental Services in Melbourne.

Following a brief working period with Golder Associates Glyn is managing Douglas Partners environmental operations in Western Australia.

Glyn's primary experience is in contaminated land and groundwater assessment and remediation. He is a member of the International Association of Hydrogeologists and of the Environment Institute of Australia and New Zealand.

Eberhard, Dr Stefan

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Email: stefan@subterraneanecology.com.au

Profile:

Dr Stefan Eberhard, BSc., MSc., PhD is one of Australia's leading scientists in his field, with more than 22 years research experience specializing in subterranean fauna (troglifauna and stygofauna) and caves. He completed his BSc and MSc at University of Tasmania, and PhD at Murdoch University, where he applied the emerging discipline of eco-hydrogeology to studying groundwater decline and threatened groundwater-dependent ecosystems in the Margaret River region. He has been involved with many projects for industry and government, and is a contributing author to more than 100 publications and reports, including four book chapters, more than 20 papers in peer reviewed scientific journals, more than 60 unpublished reports, plus numerous articles and conference proceedings. Stefan is the Director of Subterranean Ecology Pty Ltd established in 2006.

Services:

- Desktop reviews and technical advice
- Field survey, sampling and monitoring
- Environmental impact assessment (EIA)
- Reports, management, monitoring and recovery plans
- Specimen identification, taxonomy & DNA molecular genetics
- Data analysis
- Independent expert reviews
- Cave management plans & cave diving

Elliott, Mr Peter

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Profile:

Peter Elliott has a strong background in the delivery of Management systems, business process and technical requirements in the areas of Environment, Health and Safety, Community and Corporate Affairs, Human Resources and Business Planning with over eighteen years experience in the Mining Industry. He has excellent management, planning, communications, facilitation and influencing skills. Peter is capable of communicating with all levels of management and the workforce as well as government, community and NGO groups. Key focus at present is building Sustainable Development principles into business systems and the delivery of shared services and Critical process Management (Six Sigma).

Services:

- Environment, Health and Safety Management Systems
- Due diligence and environmental audits
- Sustainability frameworks and performance indicators
- Integration of environmental, social and economic drives into business processes
- Environment reports (Public and Annual)
- Dieback Management Systems
- Community engagement process and systems
- Works approval and environmental assessments
- Life-cycle assessments
- Environment, Health and Safety Plans
- Sustainability Reports
- Closure and rehabilitation planning, crisis and emergency response planning

Epworth, Miss Becky

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Profile:

Becky Epworth completed her Bachelors in Animal Science before going onto her Masters in Environmental Engineering at the University of Newcastle Upon Tyne and her research degree in nitrogen removal from wastewater ponds at the University of Leeds.

Prior to working at RPS, Becky worked as an Environmental Consultant in the UK.

Becky specialises in the areas of water quality, nutrient management, hydrology, ecology and wastewater with regards to land development projects.

Evelegh, Mr Nicholas (Nick)

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Email: nick@rockwater.com.au

Profile:

Nick Evelegh, Principal Environmental Scientist with Rockwater Pty Ltd, has had ten years experience in environmental research and consulting. Nick holds a B.Sc. (Hons) degree in Environmental Biology. He has wide-ranging experience in environmental management within the mining, and construction industries, including environmental impact assessment, flora and vegetation surveys, rehabilitation planning and monitoring, rare flora management, insect pollination and project environmental management. Nick has undertaken extensive vegetation mapping and baseline biological survey work throughout the South-West and Eremaean botanical provinces of Western Australia, with particular focus on the Northern sandplains, Jarrah Forest, Wheatbelt districts and Southern coastal areas of the State.

Services:

- Planning and Implementation of EIA programs
- Vegetation/Habitat Mapping
- Project Management
- Rare and Priority Flora Surveys
- Botanical Surveys and Flora Inventories
- Rehabilitation Planning and Monitoring
- Invertebrate Pollination Surveys
- Vegetation Condition Assessments

Finn, Mr Sean

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Foster, Mr Joshua

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Profile:

Joshua has over 10 years experience in ecological surveys across WA, with extensive experience in flora surveys, targeted flora searches, mapping of vegetation communities, weed management, revegetation and rehabilitation. He has also completed a number of fauna surveys and has wide experience in species identification in the field. Surveys have included baseline assessments for exploration and mining projects across the Pilbara and Goldfields.

He has also completed EIAs and EMPs for a number of large infrastructure projects in Western Australia. Joshua has experience working with environmental issues in a wide range of industries, particularly mining, agriculture, and state government utilities.

Services:

- Provision of ecological (botanical, zoological) advice
- Vegetation, Fauna & Rare Flora surveys
- Environmental Management Planning
- Client liaison and marketing
- Project management
- Training junior botanists
- Ecological Impact Assessment
- Revegetation and rehabilitation planning
- Preparation of proposals and tender submissions
- Writing and reviewing technical reports

French, Mr Peter

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Profile:

Peter has ten years experience working in the environmental management field, with particular expertise in project environmental management and mine-site closure and rehabilitation. During this time Peter has developed a solid knowledge base on environmental management processes and practices commonly used in WA and a thorough understanding of project approval and environmental impact assessment processes. Peter has direct experience of project management of small to large size projects and has supervised project teams for a range of projects. Peter has a depth of experience liaising and consulting with regulatory agencies, clients and stakeholders.

Services:

- Project Management and Delivery
- Closure Planning
- Environmental Management Plans
- Mining Environmental Management Support
- Environmental Impact Assessment and Approvals
- Engineering and Construction Support
- Minesite Rehabilitation
- Emissions Reporting (NPI)

George, Ms Tiffany

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Profile:

Tiffany George obtained practical experience in the marketing industry early in her career, which she has successfully combined with environmental science to focus on environmental communication and green marketing. Recent communication projects include environmental training, website development and annual environmental reporting. Since joining Metago Environmental Engineers (Australia) Pty Ltd in February 2002, Tiffany has been involved in implementing electronic integrated management systems, performance measuring tools and has a keen interest in implementing sustainability management systems.

Services:

- Strategic Environmental Management and Planning
- Environmental Performance Marketing Strategies
- Stakeholder Communication and Engagement Strategies
- Development and Implementation of EMS/EMP
- Environmental Training
- Corporate Environmental Reporting

Godridge, Ms Karen

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Profile:

Karen Godridge is a Supervising Environmental Scientist at RPS. She has seven years industry experience in environmental science, both in the private and public sectors. Karen has a general knowledge on wide range of environmental and biological science issues from both a consultancy and a State & Local regulatory context.

Karen is experienced in the land use planning sector and is passionate about developing sustainable management options for residential subdivisions.

Karen is also experienced in the development and implementation of Environmental Management Systems (EMS) and has attained GreenSmart accreditation regarding passive solar design for buildings.

Goldstone, Dr Mark

14 Packer Street, Beckenham, WA 6107

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Email: metreo@me.com

Profile:

Dr Mark Goldstone has qualifications and extensive experience in Geology, Water Management and Air Quality; enabling him to manage and undertake a wide range of environmental projects focusing in the areas of pollution assessment, management and control. His specialisations include water and air quality, data analysis, environmental assessments and transport. Dr Goldstone has worked within government, the private sector and academia giving him a good understanding of the needs and constraints of these groups.

Services:

- Environmental assessment
- Water quality
- Environmental management systems
- Statutory Assessments, Approvals
- Audits
- Air quality
- Noise
- Strategic environmental plans
- Data analysis
- Pollution inventories

Gorham, Mr Richard

290 Churchill Avenue, Subiaco, WA 6008

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Profile:

Richard Gorham is a Director of RPS. He has over twenty-five years environmental consulting experience and is responsible for strategic environmental advice, environmental impact assessment and applied ecological research for a diverse clientele comprising industry, resource development, land development and government corporations. His qualifications include a B.Sc. in marine biology, a M.Sc. in environmental science and a degree in law.

Services:

- Environmental project management
- Environmental impact assessment and documentation
- Environmental management scoping and planning
- Environmental management and monitoring
- Strategic environmental advice
- Marine and aquatic studies

Gray, Ms Cassyanna (Cass)

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Profile:

Cassyanna Gray is Team Leader of Field Ecology at Coffey Environments and has over seven years experience as an Environmental Scientist in the environmental consulting industry. In her current role, Cass is responsible for the management and allocation of Coffey Environment's ecological staff to a variety of projects in the urban development, mining, industrial and natural resource management sectors. Cass specialises in the area of botany and has well developed skills in designing and conducting flora and vegetation surveys throughout Western Australia, including the botanical regions of the Swan Coastal Plain, Northern Sand Plain, Pilbara, Jarrah Forest, Murchison, South-coast and Wheatbelt.

Services:

- Vegetation mapping
- Taxonomic identification of vascular plant specimens
- Wetland re-evaluation and assessments
- Foreshore, revegetation and coastal management plans
- Targeted rare flora surveys
- Vegetation monitoring
- Vegetation condition mapping
- Flora and vegetation surveys
- Project management
- Tree assessments
- Environmental planning
- Vegetation degradation assessments

Grein, Mr Shaun

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Profile:

Shaun Grein is the Principal Environmental Scientist at Ecoscape and has more than eighteen years experience in Environmental Management, including the past thirteen years in the environmental consulting sector. He has particular expertise in designing, conducting and managing biological survey programmes (flora and fauna) throughout Western Australia, undertaking and managing environmental impact assessments, land and wetland management, environmental planning, monitoring, land capability assessments and natural resource management. Shaun's excellent understanding of land use planning issues for a range of projects in the urban, industrial and resources sectors. He is well acquainted with the identification of rare flora and the approaches to vegetation descriptions (complexes, types, etc) having conducted numerous flora and vegetation surveys throughout the south-west of Western Australia. He has been responsible for the preparation of vegetation and flora surveys for a large number of locations in the Perth Metropolitan Region including the South West and North West Corridors and the South-West, South Coast, Kimberley, Wheatbelt, Nullarbor, Mid-West, North-West, Pilbara and Goldfields regions of Western Australia, as well as Oman in the Middle East and the United Kingdom.

Services:

- Vegetation and Flora Surveys
- Wetland Re-evaluations and Assessments
- Airport Environmental Management
- Environmental Planning
- Expert Witness Statements
- Environmental Site Supervision
- Environmental Impact Assessment & Management Plans
- Targeted Rare Flora Surveys
- Statutory Environment Approvals (State and Commonwealth)
- Project Management
- Negotiation and Mitigation/Offsets (wetlands and significant flora)
- Floristic Data Analysis and Data Management

Grose, Mr Damian

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Profile:

Damian Grose is an environmental engineer specialising in design and management of larger scale rehabilitation projects. Damian's experience is international, having worked on a range of projects in Indonesia and New Caledonia as well as Australia. Damian's skills are in all stages of rehabilitation and revegetation projects; assessment, design, management, implementation, supervision, training, monitoring and reporting. Damian has produced numerous reports including Annual Environmental Reports, Notices of Intent and vegetation monitoring reports.

Services:

- Project Management
- Rehabilitation and revegetation project assessment, design, management, implementation, supervision, training, monitoring and reporting

Halse, Dr Stuart

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Profile:

Stuart Halse has over twenty years experience in wetland ecology, conservation policy, subterranean fauna and fauna survey.

Stuart has set up AusRivAS in WA to assess river condition; Managed DEC's Pilbara Biological Survey of stygofauna and other regional inventories; Has described many new species of aquatic invertebrate and undertaken many aerial surveys of waterbirds; Prepared nomination of the first Nine Ramsar wetlands in WA; Contributed to Strategic Plans for most NRM regions in WA; Is a member of the WA Wetlands Coordinating Committee and a Research Associate of the Royal Belgian Institute of Natural Sciences.

Harewood, Mr Greg

32 Lucretia Street Eaton, WA 6232

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Profile:

Greg has twenty one years experience working as an Environmental Scientist, Zoologist and geologist. He has extensive skills in environmental investigations relating to the gaining of approvals for land development and resource development projects. He has participated in the collation of data and the preparation of Environmental Impact Statements for project located through Western Australia. In most recent times he has carried out numerous fauna surveys (Level 1 & Level 2), habitat impact assessments, Western Ringtail Possum surveys and Black Cockatoo habitat assessments in addition to targeted trapping programs for Chuditch and Southern Brush-tailed Phascogales

Services:

- Fauna surveys to EPA standard (Level 1 & Level 2)
- Fauna Management plans
- GIS and GPS mapping
- Targeted fauna surveys for threatened species
- Preparation of Federal DEHWA referral documents
- Preparation of extractive industry license applications

Harrington, Mr David

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Profile:

David Harrington is an environmental scientist with over twenty years experience in research, consulting, and environmental land management. He specialises in environmental management, land use, monitoring plans, liaison and community consultation. He consults to the urban development, oil & gas and mining industries and has extensive involvement in environmental and land access issues for oil and gas projects, particularly cross country pipelines. David is Principal of Harrington Consultants, Environmental & Land Management consultants.

Services:

- Environmental assessment in urban development
- Negotiations on land access for the resource industry
- Environmental management
- Coordination of project environmental management

Hegge, Dr Bruce

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Email: bruce.hegge@oceanica.com.au

Profile:

Dr Bruce Hegge is a director of Oceanica Consulting Pty Ltd and a coastal scientist with over eighteen years professional experience. Dr Hegge's background is in coastal geomorphology; particularly beach systems, nearshore and coastal hydrodynamics and marine sedimentology. He has extensive experience in marine environmental impact assessments, environmental project management and shoreline process and coastal setback studies. Dr Hegge is a graduate of the Australian Institute of Company Directors (AICD) and has strategic, commercial and human resources management skills developed in his role as a director of Oceanica since 2002.

Services:

- Environmental impact assessment and documentation
- Design and implement water quality surveys
- Project management
- Report writing

Helleren, Mr Stuart

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Email: stuart@dalcon.com.au

Profile:

Stuart Helleren holds a B.Sc with Honours in Environmental Biology and a M.Sc in Natural Resources. He has over eighteen years experience in aquatic and marine ecology specialising in micro-algal (especially of diatoms) and zooplankton taxonomy and ecology from freshwater wetlands, salt lakes, rivers, estuaries and marine environments. Stuart is the founder and Senior Environmental Scientist with Dalcon Environmental Pty Ltd which specialises in the biological assessment and monitoring of aquatic systems, education and training in water quality issues and micro-algal, zooplankton, macroinvertebrate and infaunal taxonomy.

Services:

- Biological/Limnological surveys and monitoring
- Education/training in water quality issues
- Water quality assessment
- Infauna ecology and taxonomy
- Ecotoxicology investigations
- Phytoplankton/Periphyton ecology and taxonomy
- Palaeolimnological analysis (diatoms and pollen)
- Zooplankton ecology and taxonomy
- Identification and management of potentially toxic phytoplankton

Henry, Ms Janet (Jan)

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Profile:

Jan Henry has worked as a Principal of Ninox Wildlife Consulting since 1981, providing expertise in fauna surveys to mining and development companies, government departments and other broad-based natural resource consultants and engineers. She has worked extensively in the southwest forest and coastal plain, the Pilbara and Goldfields. Prior to forming Ninox, Jan worked for the WA Museum Mammal department for seventeen years, specialising in identification, taxonomy, cataloguing, data entry and analysis of research data and public liaison. Fieldwork included fauna surveys in the WA Wheatbelt, Goldfields, Pilbara and Kimberley.

Services:

- Terrestrial vertebrate fauna - impact assessment, habitat assessment and ecology
- Project management
- Rehabilitation techniques for vertebrate fauna

Hick, Mr Jason

Cardno Centre 2 Bagot Rd Subiaco, WA 6008

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Email: Jason.Hick@cardno.com.au

Profile:

Jason has twelve years experience in environmental consultancy, the past ten of which has been with Cardno in Western Australia. Prior to this he worked with a number of smaller specialist consultancies in the areas of catchment management, water quality assessment and data analysis and wetland and waterway management.

Jason has undergraduate qualifications in Environmental Science (physical geography and soil science/land and water management), a Postgraduate Diploma in Environmental Impact Assessment and a Masters in Business Administration.

Jason's project exposure has been across a number of sectors including mining and basic raw materials, urban development and property, intensive agriculture and natural resource management/local government, and in more recent times has been focussed on land use planning and urban development, primarily involving environmental planning and approvals for larger projects.

Services:

- Strategic environmental advice
- Environmental impact assessment and approvals
- Environmental management plans
- Compliance reviews and audits
- Environmental project management and coordination
- Environmental planning and environmental offsets
- Due diligence investigations and environmental appraisals
- Rehabilitation and revegetation strategies and plans

Higgs, Mr Piers

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Profile:

Piers has had considerable experience in both spatial and aspatial data management during his career in the environmental industry, and has also undertaken a range of field work. After completing his Masters in Business Administration degree, he is now operating his own consultancy.

Services:

- Data management
- Field data collection
- Enabling technologies, including internet technologies
- Geographical Information Systems (GIS) and other spatial technologies
- Business management and strategic reviews

Hill, Mr Gregory (Greg)

4 Duffy Street Bassendean, WA 6054

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Profile:

Greg Hill has a strong background drawn from over twenty-five years commercial experience in a variety of land management disciplines acquired in Australia and overseas. As Managing Director of GHEMS Revegetation Environmental, he has been acknowledged for his technical and management skills in the design, and implementation of environmental and revegetation projects. He has numerous large-scale contacts to his credit, encompassing land care, mining and construction, urban development and plantation establishment. Greg has built a team of skilled and experienced professionals, whilst maintaining advanced technical and environmental management systems.

Services:

- Native seed recovery
- Rehabilitation and revegetation
- Project management
- Community involvement, supervision and training
- Environmental planning and assessment
- Flora/vegetation

Hillman, Dr Karen

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Profile:

Karen Hillman is an aquatic ecologist with twenty three years experience in environmental assessment and the development and co-ordination of environmental monitoring programmes: largely in estuarine and coastal ecosystems, but with some experience in freshwater systems. Research interests are in water quality, sediment quality and benthic ecology. Karen's professional focus is largely on environmental impact assessment, the symptoms and management of nutrient enrichment, and the development of methods and guidelines to assess the environmental health of aquatic ecosystems.

Services:

- Design and implementation of monitoring programmes for water quality.
- Design and implementation of monitoring programmes for benthic biota.
- Design and implementation of environmental management plans/programmes for development proposals.
- Development of environmental health guidelines for aquatic ecosystems.
- Preparation of environmental approval documentation.
- Design and implementation of monitoring programmes for sediment quality.
- Assessment of the potential environmental impacts of developments on aquatic ecosystems.
- Assessment of the environmental health of aquatic ecosystems.
- Project management of small to medium sized multi-disciplinary studies on aquatic ecosystems.

Hollyock, Mr Ben

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Profile:

Ben Hollyock is a Managing Environmental Scientist with thirteen years professional experience in the environmental field and four years as a private consultant. His experience includes work in the Evaluation Division of the Department of Environmental Protection, Acting Manager of the Pilbara Region office of the DEP.

Ben is responsible for environmental assessment, approvals, management and advice on a range of land development projects in Western Australia. His key areas of expertise are in environmental impact assessment, environmental management particularly of land development projects, statutory approvals process requirements and strategic advice.

Holm, Dr Alexander

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Profile:

Alec Holm has over thirty years experience in natural resource management and rural development in Australia, Iran, Iraq, Nigeria and Indonesia. Alec worked for the Western Australian Department of Agriculture in rural land-use planning and development, management of soil conservation and land clearing, implementation and management of environmental monitoring systems. Alec became a full-time NRM consultant in 2000 operating as Alexander Holm & Associates. His clients include FAO, Asian Productivity Organisation, state and federal agencies and more recently a mining company. He specialises in assessment and management of environmental impacts of various land uses in arid and semi-arid environments.

Services:

- Rural development within agro-pastoral grazing systems including community consultation and participative processes
- Strategic planning, evaluation and policy development for management of natural resources
- Natural resource assessment, management, monitoring and reporting
- Training for specialists and practitioners
- Integrated catchment management including watershed management and bio-diversity conservation
- Rangeland management and rehabilitation
- Project management, design and evaluation

Holmes, Mr Russell

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Profile:

Russell has six years full time experience and two years part time experience as an Environmental Scientist for RPS Environmental and is responsible for project management and reporting for the land development team. Russell completed a Bachelor of Environmental Science at Murdoch University in 2002 and has worked with RPS since then. He specialises in environmental assessment, reporting and advice on a range of land management and land development projects throughout Western Australia. Russell also has experience in managing contaminated sites including market gardens, acid sulphate soils and groundwater monitoring.

Services:

- Environmental Impact Assessment
- Due diligence environmental investigations
- Contaminated site assessment and management
- Environmental Management Plans
- Environmental management and monitoring programs

Honczar, Ms Kellie

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Profile:

Kellie has ten years professional experience in the environmental consulting industry. She has managed and contributed to a range of projects throughout WA for mining, infrastructure, development, planning and research applications. In addition to specialist botanical and ecological skills across all of Western Australia, Kellie has experience in environmental management and impact assessment and in map based environmental constraints analyses for development planning.

Kellie is experienced in the determination of Ecological Water Requirements, with particular emphasis on vegetation. She has a good knowledge of relevant legislation and the environmental approvals process and also has Environmental Auditing experience and in working as part of an on-site environmental team in development project scenarios, including community and stakeholder liaison roles. Kellie is a member of the internal auditing team at Maunsell, as well as a qualified auditor and on the Quality Risk management committee at the Maunsell Perth office. In addition to substantial experience and knowledge of the botanical aspects in WA, she has a working knowledge of local fauna and fauna habitats, particularly in relation to vegetation.

Services:

- Project Management and Team Management
- Flora, vegetation, dieback and fauna survey design, execution and reporting
- Vegetation rehabilitation monitoring program design and execution
- Preparation of statutory documents (e.g. referrals, PERs, vegetation clearing permits, etc.), of environmental management plans and all tasks associated with EIA and environmental approvals acquisitions.
- GIS (digital mapping, etc.) skills
- Auditing (quality and environmental)
- Flora and vegetation (including dieback, and to some extent, fauna) desktop assessments, field surveys and assessment of conservation significance
- Taxonomic flora specimen identifications
- Local, Government and private stakeholder liaison
- Community education on environmental issues
- Peer reviews of environmental documents

Humphreys, Mr Garth

14 View Street North Perth, WA 6006

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Email: garth@biota.net.au

Profile:

Garth Humphreys is an ecologist with over ten years experience in fauna and flora surveys and has been involved in over eighty projects at both formal and informal levels of assessment. With a background in flora and fauna surveys and terrestrial population ecology, Garth is a specialist in the areas of biological survey, environmental management and environmental impact assessment. Project involvement has included mining developments (impact assessment, monitoring and rehabilitation), regional level road design (planning, impact assessment and environmental management) and rare fauna and flora assessment and management. Garth is currently a director with Biota Environmental Sciences Pty Ltd.

Services:

- Terrestrial impact assessment
- Environmental management
- Rehabilitation plans
- Environmental audits
- Flora and fauna surveys
- Data analysis

Jacobs, Mrs Annette

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Email: annette.jacobs@worleyparsons.com

Profile:

Annette is a competent environmental scientist who has experience in Environmental Management Plan development, Environmental Impact Assessments and the drafting of regulatory approvals strategies for Project Proposals.

Annette has experience in contaminated sites, dewatering and ASS, AMD mine and wastewater management. Annette's specialisation is in Environmental Project Management, specialist duties scoping and management of study teams including hydrology, hydrogeology, geotechnical, flora, fauna and air, noise and vibration studies.

Services:

- Environmental Impact Assessment
- Approvals Strategy Development
- Hydrochemistry including acid sulphate soils and water quality
- Site and Route selection using Multi Criteria Analysis
- Level 1 contaminated sites assessment
- Acid Rock Drainage

Jeffries, Mr Stuart

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Profile:

Stuart is director and Principal Hydrogeologist with Hydrosolutions Pty, an independent hydrogeological and environmental consultancy established in WA in 1999. He has more than eighteen years experience in the groundwater industry, having worked previously as senior Hydrogeologist in Perth at PPK Environmental and Infrastructure between 1995 and 1999. Stuart was Senior Hydrogeologist at Aspinwall and company in the UK between 1988 and 1995 prior to immigrating to Australia. Stuart also worked in the North Sea oil and gas exploration industry with Gearhart Geodata services between 1984 and 1987. Stuart has a M.Sc. in Hydrogeology and a B.Sc. in Geology. He is a Chartered Geologist and IEMA registered Environmental Auditor.

Services:

- Water quality monitoring design and review
- Remedial design and implementation
- Project Management
- Preparation of Documentation (NOI, EIA, CER, PER, BMR et al)
- Potable and process water resource development
- Contaminated site investigation
- Numerical modelling studies
- Environmental Auditing (divestiture, due diligence, compliance etc)
- Mine dewatering

John, Dr Christopher (Chris)

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Profile:

Dr Chris John has twenty-five years experience in the mining, manufacturing, agriculture and food processing industries. He has significant experience in working with regulatory authorities. Chris operates a general consultancy, established in 1990, concentrating on integration of environmental affairs into business, and covering a full range of services related to environmental management and environmental affairs.

Services:

- Environmental impact assessment and permitting
- Waste tailings and wastewater management
- Environmental management systems/organisation
- Environmental auditing /due diligence
- Strategic environmental planning
- Odour-impact Assessment Studies

Jones, Ms Lorie

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Profile:

Lorie Jones is a Shareholder and Principal of Sinclair Knight Merz (SKM), with over twenty three years experience in environmental engineering, strategic environmental management, regional and industrial planning, environmental impact assessment and project management. She has particular expertise in risk, air quality and noise, including management of cumulative environmental issues associated with power and energy, infrastructure and industrial projects, strategic land use planning and the implementation of buffer zones to resolve land use conflicts. She is registered as a Certified Environmental Auditor with RAB/QSA International. At both state and national level, she is involved in the promotion of sustainability through training and education. She is Vice Chair of the National Society for Sustainability and Environmental Engineering and is appointed by the WA Division of Engineers Australia to the National Board of the Environmental Engineering College.

Services:

- Environmental engineering
- Environmental impact assessment
- Strategic Environmental management
- Regional and industrial planning
- Community consultation
- Project management
- Energy research

Kabay, Mr David

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Profile:

Dave Kabay is a graduate in Agriculture Science with 1st Class honors and a Master of Science both from the University of Western Australia. He has five years post graduate research experience, four years with CALM and seventeen years experience in the mining industry involved in all facets of environmental operations including rehabilitation, environmental assessment, management, monitoring and auditing and biological studies.

Services:

- Rehabilitation of a wide range of degraded and mined systems
- Seed germination testing facilities
- Environmental impact assessment, management, monitoring and auditing
- Project co-ordination
- Environmental communications
- Tree nursery design, management and operation for seedling, cutting, tissue culture and seed collection and storage
- Plant procurement and production
- Fauna and flora surveys and studies
- Environmental education of employees
- Wetland ecology and rehabilitation

Kaesehagen, Mr David

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Profile:

David Kaesehagen is an Honours graduate in Biology and Environmental Science with over twenty years experience in environmental and agriculture research and consulting. For the past twelve years David has been Principal and Director of Ecoscape (Aust.) Pty Ltd. David's expertise lies in the field of environmental management, environmental impact assessment, landscape ecology, biological surveys, urban design, catchment planning, cultural planning and community consultation.

Services:

- Environmental management
- Environmental planning
- Coastal planning design and management
- Landscape ecology
- Restoration ecology, bush regeneration
- Environmental impact assessment
- Biological surveys
- Urban design
- Community consultation

Koontz, Mr Douglas (Doug)

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Profile:

Doug Koontz has over thirty years experience in the mining industry and government in Western Australia and the Northern Territory. He has also undertaken projects in Indonesia and Africa. Doug has worked for a mining company, the Department of Environmental Protection, and the Chamber of Minerals and Energy of Western Australia. Doug became a consultant in 1994. A good working knowledge of legislation and corporate management practices, and practical experience of field situations provides Doug with a solid base for developing environmental management strategies for industry. Doug is a RBAQSA certified lead environmental auditor and is the Principal Environmental Consultant with Aquaterra.

Services:

- Environmental impact assessment
- Strategic environmental planning
- Environmental audits
- Facilitated project scoping
- Mine closure planning
- Project approvals and government liaison
- Environmental management systems audit and advice
- Environmental and land use policy
- Community consultation

Lacy, Mr Harley

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Profile:

Harley Lacy has twenty-five years experience associated with agriculture, mining and environment, particularly in arid environments. He is the Managing Director of Outback Ecology Services and has technical qualifications in agriculture and tertiary qualifications in Environmental Management and Environmental Biology. He has provided consulting services to mining since 1990 and has been an internal adviser to a large West Australian mining company for five years, prior to independent consulting activities.

Services:

- Environmental management mining
- Rangeland management
- Tailings rehabilitation and research
- Salt lake management
- Mine Support Environmental Management
- Mine Closure Management
- Mine liaison and statutory reporting
- Mine waste rehabilitation
- Acid mine drainage
- Ecosystem monitoring
- QSA Auditor Environment

Ladyman, Dr Mitchell (Mitch)

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Profile:

Dr Ladyman has extensive experience in the design, implementation and management of field biological surveys across a diverse array of biotopes in Western Australia for an equally diverse array of clientele. He has undertaken innumerable short and long-term field surveys, including biological impact assessments, rare flora and fauna monitoring programmes, short-range endemic surveys and mine rehabilitation programmes. Mitch has steered several large biological consulting groups to long-term success and he now invests his time and energy into connecting biological scientists to contract work for a range of clients through his business Animal Plant Mineral Pty Ltd.

Services:

- Environmental Assessment and Management to meet or exceed statutory requirements
- A high standard of Stakeholder consultation to aid environmental approval
- Fauna data analysis and reporting
- Rehabilitation fauna monitoring surveys
- Notices of Intent to meet DoIR environmental approval requirements
- Baseline and monitoring fauna surveys
- Rare fauna monitoring and management
- Venomous Snake Risk Assessment and Management

Law, Mr John

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Profile:

John Law is the Managing Director of Minesite Rehabilitation Services P/L and has over twenty-five years experience. John worked for the Department of Agriculture for seventeen years, in that time he worked in the Kimberley and Goldfields regions. He specialised in rangeland management, regeneration techniques and water conservation. In 1990 he set up Minesite Rehabilitation Services P/L in partnership with Lance Hurst and eventually bought the company outright in 1996. In his twelve years as an environmental consultant he has provided various environmental services to the mining industry, pastoral industry and government bodies.

Services:

- Environmental management systems
- Water conservation
- Native seed supplier
- Notice of intent
- Decommissioning reports and supervision
- Catchment management systems
- Rehabilitation- vegetation
- Staff Development - training
- Annual environmental reports
- Floristic surveys

LeProvost, Mr Martin (Ian)

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Profile:

Ian LeProvost has over thirty five years experience in environmental impact assessment and management in coastal environments, principally in Western Australia and the Northern Territory. He has particular expertise in the oil and gas industry and with port and dredging developments. He is a graduate in Biological and Earth Sciences from Macquarie University (1971), has completed the Executive Management Programme at the University of WA Graduate School of Management (1997), and has a Postgraduate Diploma in Ecologically Sustainable Development, Murdoch University (1999).

Ian has also served as a member of the Western Australian Environmental Protection Authority (2000-2), during which time he contributed to the development of the Cockburn Sound EPP, The EIA Administrative Guidelines 2002, and the EPA Guidance Statement No 29 (BPPH Protection).

Services:

- Environmental impact assessment
- Environmental management programs
- Marine biological monitoring programs
- Project direction and management
- Strategic Environmental Advice
- Environmental audit programmes
- Design and management of marine ecology research and field surveys
- Offshore oil and gas exploration and production
- Marine wastewater discharge assessments
- Dredging and reclamation approvals
- Dredging and spoil disposal management
- Project approvals and government liaison

Lindbeck, Mr Keith

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Profile:

Keith Lindbeck has qualifications in agriculture, geography/botany and environmental science and has thirty years environmental experience. During this time he has prepared formal and informal environmental impact assessment documents, reviewed many hundreds of assessments (as Environmental Manager in the Department of Minerals and Energy), prepared environmental management strategies and rehabilitation plans especially for the mining and agricultural industries, undertaken rural and urban land capability assessment and landform/soils surveys. Keith specialises in minesite approvals, closure planning and auditing of minesite operations. He has had extensive overseas experience in Asia and the USA. Keith is Principal of Keith Lindbeck and Associates, Environmental Management Consultants.

Services:

- Environmental impact assessment
- Urban and rural land capability
- Degraded land rehabilitation plans
- Minesite rehabilitation programs and strategies
- Project management
- Policy development
- Site investigations
- Compliance and environmental audits
- Environmental monitoring programs
- Soil erosion control
- Environmental management systems
- Notices of Intent

Long, Mr Peter

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Profile:

Peter Long is an environmental scientist and professional engineer with thirty years experience in the resource and infrastructure industries. He has been responsible for Environmental Management System development, environmental management plans and compliance monitoring for many large companies in Western Australia. He has written a number of Environmental Protection Statement/CER documents and has also performed environmental audits and landform monitoring on a broad range of developments. Peter has been responsible for Wedgetailed Shearwater and bird monitoring on all major nesting islands on the North West Shelf and has particular expertise in environmental engineering design and management of resource projects in remote areas.

Services:

- Project design and management
- Environmental management plans
- Soil and water engineering
- Government reports, permits and applications
- Landform monitoring
- Environmental audits
- Compliance monitoring
- Environmental impact assessment
- Waste and wastewater management

Mack, Mr Andrew

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Profile:

Andrew is the 2IC for the Environmental Services Business Unit and a principal within Cardno. After graduating as an Environmental Engineer in 1995 he worked with the Water and Rivers Commission on contract.

Andrew joined the Department of Environment and Conservation in 1996 and worked across both Part IV and Part V of the Environmental Protection Act 1986. He also worked in Kalgoorlie as the Acting Manager of the Goldfields Region Office.

Andrew joined Cardno in 2003 and his background and experience with a wide range of industries led to his current position. His reputation and knowledge have seen him involved with many projects within the Mining and Industrial, Land Development and Waste Management sectors. He also continues to work closely with State and Local Government.

Services:

- Environmental Impact Assessment
- Project Approvals
- Major Project Delivery
- Project Management
- Expert Opinion
- Community Consultation
- Mining and Industrial Consultancy Services
- Compliance Auditing
- Statutory/Legal Advice
- Peer Review
- Waste Management Advice
- Ethnographic Survey Work

Maier, Ms Michaela (Michi)

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Profile:

Michi Maier is a botanist with eighteen years experience in flora and vegetation surveys. With a background in environmental impact assessment and baseline biological surveys, particularly for the mining industry, she has specialised in the areas of vegetation mapping and flora surveys (particularly for threatened flora). Project involvement has included impact assessment, rehabilitation design and monitoring, soil surveys and threatened flora assessment and management. Michi is currently a Director with Biota Environmental Sciences Pty Ltd.

Services:

- Environmental impact assessment
- Threatened flora assessment and management
- Flora and vegetation surveys
- Rehabilitation-planning and monitoring

Marks, Mr Russell

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Profile:

Russell Marks established Greenbase in 1990 in response to the growing demand for expertise in the management of environment and natural resource data. He is a qualified Engineering Hydrographer with over thirty years experience in the water industry in both Western Australia and South Australia and has over twenty years experience in environmental data management, database design and implementation.

Services:

- NPI and Greenhouse accounting
- Hydrography
- Water resource management
- Surface water monitoring
- Water data processing and management
- Environmental information systems development
- Environmental information systems planning
- Training for data collection and management

Martinez, Miss Gabriela (Gaby)

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Email: gaby.martinez@aecom.com

Profile:

Gabriela Martinez possesses a vast knowledge of the native flora of Western Australia, the composition and structure of vegetation communities, legislation protecting native vegetation and the social and political issues relating to the utilisation of natural resources. Gaby has seven years experience as an Environmental Scientist specialising in the areas of botany, vegetation community mapping, Declared Rare Flora surveys, vegetation condition mapping and mine rehabilitation surveys. Additional to this, Gaby has specific expertise in wetland assessments, wetland re-evaluations, Environmental Impact Assessments and natural resource management, environmental planning, baseline studies and degradation assessments throughout Western Australia. She is familiar with a large number of plant species from the botanical regions of the Swan Coastal Plain, Jarrah Forrest, Northern Sandplain, Pilbara, Goldfields, South-coast and Wheatbelt.

Services:

- Vegetation condition mapping & Rehabilitation assessment
- Wetland Re-evaluation and Assessments
- Wetland Rehabilitation Assessments
- Targeted Rare Flora Surveys
- Vegetation Community Mapping
- Environmental Planning
- Mine Rehabilitation Assessments
- Vegetation and Flora Assessments
- Environmental Monitoring
- Data Collection and Analysis
- Project Management

Masters, Mr Bernard (Bernie)

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Profile:

Bernie Masters graduated in 1971 from the University of WA. He worked for twelve years in the mining industry, with responsibilities in environmental impact assessments of mining and mineral processing proposals, environmental protection at mine sites, public relations and post mining land rehabilitation. For five years he worked with the State Government in environmental evaluation of proposed developments and as a wildlife conservation officer in southwest WA. Since 1989 Bernie has been a private consultant, providing a wide range of services to local government, private developers and mining companies. In December 1996, he was elected as a Member of Parliament for the Vasse area. During this time he served as the Opposition Spokesperson for the Environment (2001 to 2004). In February 2005 he returned to his consulting business and has since been elected onto the board of management of the Geographe Catchment Council (GeoCatch).

Services:

- Environmental impact assessment of land use developments
- Rehabilitation strategies for mined and other disturbed land
- Community consultation
- Management of natural land
- Assessment of wetland quality, management and rehabilitation
- Project approval process including government liaison

Mattiske, Dr Elizabeth (Libby)

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Profile:

Dr Libby Mattiske is the Managing Director of Mattiske Consulting Pty Ltd, and a partner in E M Mattiske and Associates. Libby has qualifications in plant ecology, botany, zoology and land management issues and has over twenty years of research and work experience since graduating from Adelaide University. Libby established a business in 1979 and has been consulting to a wide range of industry, mining and government departments in the last twenty years. Prior to establishing this business Libby worked as a research officer with the former Forests Department of Western Australia in the research branch at Como. She has worked extensively in Western Australia, South Australia and on several offshore Islands. Libby currently manages a small consulting business specialising in botanical and ecological studies and employs a range of university graduates. Libby is also involved in government committees addressing broader environmental issues in Western Australia and Australia.

Services:

- Flora and vegetation studies
- Data management
- Revegetation of disturbed areas
- Land care issues
- Environmental auditing
- Project management

Mauger, Mr Geoffrey

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Profile:

Geoff Mauger is the working director of the company Geographic Information Analysis Pty Ltd. Before starting the company in 2003, he had twenty-seven years experience in water supply and catchment management planning with the Western Australian government's water management agencies. In recent years he has specialised in hydrological analysis of dryland salinity and associated management options in the SW of WA. The skills Geoff has acquired in the fields of spatial data analysis and use of GIS during development of large catchment models have potential application in many areas of natural resources management.

Services:

- Physical process modelling based on gridding datasets.
- Analysis of remote sensed data.
- GIS-based map production.
- Derivation of new maps from basic digital data, eg catchment boundaries from digital elevation models.
- Area statistics based on map overlay.

McCarthy, Mr Mick

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Profile:

Mick's professional profile covers over three years of professional private consultancies and fourteen years in Local Government through the EMRC. Mick was responsible for establishing the EMRC Environmental Service which included a consulting service to member Councils and other Local Governments as well as extensive project development and implementation. At its peak, the EMRC consulting service comprised of six staff and fourteen project staff. Mick's current role at Parsons Brinckerhoff is the Capability Executive for the Environment and Planning section covering Environmental Science, Contaminated Land Management, Asbestos (Hazmat) and GIS. There is a total of thirty-five staff in the section.

Services:

- Environmental Assessment
- Environmental Planning
- EMS
- Environmental Management Programs
- Catchment Management
- Waste Management

McCreery, Ms Kelli

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Profile:

Kelli McCreery has worked as a consultant botanist for the Environmental Impact Assessment (EIA) process in Western Australia since 1996. Kelli currently operates her own consulting business, providing flora and vegetation assessments and advice. Her strengths consist of broad industry knowledge, an understanding of EIA requirements and the drive and experience to provide quality botanical assessments.

Kelli is currently studying for Masters of Environmental Management (Natural Systems), which will be completed at the end of 2009.

Meney, Dr Kathy

12 Monger Street PERTH, WA 6000

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Profile:

Dr Kathy Meney is Director and Principal Environmental Consultant of Syrinx Environmental Pty Ltd. She has qualifications in ecology/botany, environmental geography and economics. Over the past fifteen years she has gained extensive research and management experience in restoration ecology, environmental remediation, horticultural botany and wetland and urban bushland management. She has specialist knowledge in the management, design and rehabilitation of wetlands and the use of passive treatment systems for wastewater remediation. She is an expert in rushes and sedges with particular interest in their propagation and use in nutrient filtering, weed management and erosion control. Kathy has worked mainly in a research and private consulting capacity on restoration ecology, environmental management and rehabilitation.

Services:

- Wastewater remediation
- Horticultural botany
- Vegetation/flora surveys
- Biological nutrient-filters
- Plant research
- Environmental impact assessment
- Wetland creation
- Restoration Ecology

Morgan, Mr Brian

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Profile:

Brian Morgan is a plant biologist with a background in plant pathology, flora and vegetation surveys and forest inventory surveys, including seven years experience with Department of Conservation and Land Management and more than five years consulting and subcontracting. Most recently, Brian has specialised in areas of flora and vegetation surveys, vegetation mapping, rare flora surveys and rehabilitation monitoring.

Services:

- Flora and vegetation surveys
- Rare flora searches
- Rehabilitation monitoring
- Ecological studies

Napier, Ms Anna

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Profile:

Anna Napier has been working in the environmental assessment and management field since 1984. As a consultant she has been involved in botanical surveys, environmental impact assessment and a range of studies including flora atlassing, investigation and design of practical rehabilitation methods and monitoring. During eight years with Main Roads Anna was responsible for environmental management of the State's road network and all impacts of road construction and also for development of an environmental management system and audit of projects. Since joining GHD in 1998, Anna has managed a range of projects, including many in treated wastewater management, environmental assessment of wastewater treatment plants, mine audits, roadworks projects and rehabilitation.

Services:

- Flora and vegetation surveys
- Environment management
- All aspects of rehabilitation
- Training in environmental issues and management (construction industry)
- Environmental impact assessment
- Monitoring design
- Weed control and training in herbicide use
- Project management

Nelson, Mr Sam

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Profile:

Sam Nelson has over twenty years of experience in scientific programming and environmental data systems. He has developed and implemented information systems in many areas of environmental management including water quality sampling and analysis, contaminated sites investigations, emissions estimation and reporting, catchment and estuarine monitoring, phytoplankton classification, water utility asset management, environmental risk management, dust monitoring, mine site and reservoir water management, fisheries population genetics, and groundwater modelling. He also provides consulting on environmental data management strategies. Sam holds a Bachelor of Science in General Science from the University of Alaska Fairbanks and has been certified as a high school math and science teacher.

Services:

- National Pollutant Inventory and Greenhouse Emissions accounting
- Scientific programming
- Environmental data management systems, strategies, and audits
- Asset and risk management systems
- Water quality monitoring program design and autosampler programming
- Water balance modelling systems
- Water quality data analysis
- Training

Nichols, Mr Paul

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Profile:

Paul Nichols has experience in both the marine geo-environmental sector and land based geo-environmental sector.

Now based in Gardlines regional (Australia and S/E Asia) office Paul is working in project management and environmental consultancy/contracting for Gardline Environmental. Paul has additionally been involved in numerous offshore environmental surveys in the UK, West Africa, Colombia and Australia, involving the collection of sea bed sediments, photographic images and video footage of the seabed, data analysis and final reporting.

Paul has also worked in the contaminated land industry and has experience managing site investigations and remediation projects.

Pershke, Ms Donna

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Profile:

Donna Pershke has worked as an environmental consultant since 1989. She is a Principal Environmental Scientist with URS, specialising in environmental management systems, public environmental reporting and environmental auditing. Donna is a QSA accredited Senior Environmental Auditor and has conducted over one hundred individual site audits over a wide range of economic sectors including mining and resource processing, chemical and petrochemical, waste management, general manufacturing and government. She has assisted numerous clients in the development and implementation of their environmental management systems and also presents a QSA approved management systems and auditor training course. Donna has worked in fourteen countries throughout Europe and Australasia.

Services:

- Environmental auditing (management systems, due diligence, compliance)
- Environmental training
- Advice on the development and implementation of environmental systems
- Production/verification of Public Environmental Reports

Polglaze, Mr John

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Profile:

John Polglaze has experience in a diverse range of environmental management issues as both a consultant and within the Commonwealth Government. He has specific experience with strategic planning, environmental impact assessment, environmental management planning, the development of NEPMs, and corporate environmental policy development and implementation. John's particular area of expertise is the environmental management of ports and shipping and the management of ship generated waste. He is a qualified commercial diver and a QSA registered Environmental Auditor, and has been appointed as a member of the Cockburn Sound Management Council.

Services:

- Corporate environment policy development and advice
- Environmental services for Defence units
- Marine pollution prevention
- QSA registered Environmental Auditor

Pope, Ms Jennifer (Jenny)

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Email: jenny@integral-sustainability.net

Profile:

Dr Jenny Pope is Director of Perth-based consultancy firm Integral Sustainability, which provides advice and training services to government and industry on sustainability assessment and the integration of sustainability principles into planning and decision-making processes. Jenny is a chemical engineer by training, and her current work builds upon her varied 20 year career in government and industry, both in Australia and internationally. Jenny recently completed her PhD, researching sustainability assessment and its evolution in Western Australia. She has a number of publications and is internationally recognised for her work in sustainability assessment.

Services:

- Development and implementation of sustainability planning and assessment processes
- Working with organisations to align internal planning and decision-making processes with the principles of sustainability
- Sustainability policy development within both government and Corporate contexts
- Multi-criteria analysis (MCA) as a tool for sustainability assessment
- Design of community engagement for sustainability assessment appropriate standards
- Development of sustainability frameworks to operationalise sustainability principles within the context of specific organisations and decisions
- Environmental impact assessment (EIA) and strategic environmental assessment (SEA)
- One- and two-day courses in sustainability assessment theory and practice systems

Pope, Ms Kirsten (Kirsty)

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Profile:

Kirsty Pope works with the Perth office of ENVIRON as a Senior Environmental Consultant, and has more than ten years experience in environmental consulting. She has particular expertise in environmental impact assessment, environmental constraints assessment and project approvals. Kirsty has a broad range of experience in other areas such as environmental management programs, mine closure planning, environmental auditing, monitoring and data analysis and presentation. She is also accredited as an Associate Auditor with the Quality Society of Australia. Her experience is predominantly associated with mining, industry and infrastructure projects in WA although she has gained experience in other sectors and worked both interstate and overseas.

Services:

- Environmental impact assessment
- Environmental constraints assessment
- Statutory submissions
- Environmental monitoring
- Data management, analysis and presentation
- Environmental auditing

Price, Ms Anna

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Profile:

Anna has developed an extensive skill and experience base through a diverse career in fisheries, mining, agriculture, consulting and conservation. Her experience with these industries in places including the Kimberley, Pilbarra, South Western Australia, and overseas in South Africa and Northern America, means she is well equipped to deliver these services globally.

Anna has strong skills in ecosystem assessment and management. A particular strength is her knowledge of ecosystem processes and interactions with water resources.

Anna's technical skill and extensive experience are in project design, funding, management and implementation.

Anna's strong communication skills has seen her liase with community and public groups, mining companies, government agencies (State, Commonwealth and Local), tourist groups, school groups, funding bodies, boards and individuals.

Priddle, Mr Shane

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Profile:

Shane manages the Western Australian office of nghenvironmental in Dunsborough.

Shane is experienced in environmental impact assessments, biodiversity assessments including terrestrial fauna surveys and compliance auditing. He is also experienced in the application of GIS in the area of resource management, undertaking the majority of nghenvironmental's in-house mapping.

Shane has prepared numerous environmental impact assessments, biodiversity and management documents for clients such as Telstra, Siemens Thiess (SILCAR), NSW Dept of Commerce, Country Energy, NSW Roads and Traffic Authority, NSW Ambulance Service, Snowy Hydro, several Local Governments in NSW & WA, the Department of Environment and Conservation (NSW & WA) and Western Power.

Services:

- GIS and spatial interpretation and mapping expertise
- Professional report writing (prepared or contributed to over 125 professional reports)
- Provision of Environmental Impact Assessment, Biodiversity Assessments & Environmental Planning and Management services
- Preparation of professional photomontages suitable for public display
- Expertise in working with government and non-government organisation to achieve specific environmental goals
- Knowledge of complex environmental planning legislation and its application in planning proposed developments. This has included work in sensitive environments, including National Parks in coastal and sub-alpine environments

Quilty, Mr John

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Profile:

John Quilty is a graduate in Agricultural Science with a Certificate in Engineering Hydrology. He has thirty-six years experience in environmental assessment, land use planning, and revegetation. His previous employment with government and industry in Western Australia has furnished him with wide ranging experience in these spheres, a sound knowledge of state and local government procedures, and a clear understanding of the needs of and constraints upon commercial and industrial developers. John established Quilty Environmental as an environmental and revegetation consultancy in 1989.

Services:

- Project co-ordination, especially for industrial site selection and environmental assessments
- Negotiation with government departments, local authorities and community groups on environmental and land management issues
- Design, specification, costing and management of revegetation programmes for urban and industrial areas, wetlands, coastal foreshores, quarries and mine sites.

Read, Mr Viv

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Profile:

Viv Read has over twenty five years experience and wide-ranging skills with natural resource management and agriculture in Australia. Following farming in south-west WA, he developed interests professionally in ecological survey, endangered species research and landscape rehabilitation. Through government employment and private practice, Viv undertook a range of land resource evaluation and planning, and initiated processes for community engagement through participatory planning, integrated farm and catchment planning and sustainable agricultural industry development. Viv provides natural resource management service (as Steady State Consulting) with a focus on river and wetlands systems management, dryland salinity control, urban landcare, NRM strategy development and NRM 'practice change' research.

Services:

- Regional NRM strategy development, planning and review
- Engineering and plan based systems for landscape-scale salinity control
- Environmental, technical, economic and social assessment of management systems
- Project and program evaluation and management
- River and wetland survey and recovery planning
- Integrated urban Landcare planning and management
- Institutional arrangement and organisational review
- Sustainable industry development
- Management plan preparation and review
- Research and review of 'practice change' mechanisms and capacity
- Local to national scale biodiversity management systems
- Community consultation and engagement

Rhodes, Ms Michelle

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Profile:

Michelle Rhodes is an Environmental Consultant who has worked in the environmental field since 1991. Michelle spent five years in the Kimberley as a hydrologist and as a project manager. In Perth she has operated as a consultant being a Director of 360 Environmental Pty Ltd. Michelle's areas of expertise include contract environmental management, environmental impact assessment (completing a Post Graduate in Environmental Impact Assessment) environmental management plans and audit. Her qualifications include a Masters of Environmental Management. Michelle is a Certified Environmental Auditor (021830) meeting the requirements of RABQSA International Inc. Michelle has worked on various State-level projects on behalf of Clients, and has proven skills in project environmental management.

Services:

- Environmental impact assessment
- Environmental project management
- Catchment management
- Surface water
- Environmental compliance auditing
- EIANZ Certified Environmental Practitioner (CENVP)
- Environmental commitment implementation
- Water source protection plans
- Rehabilitation
- Erosion control planning and preparation
- Audit

Richer, Mr David

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Profile:

David has had over fifteen years experience in the hazardous waste treatment industry, supplemented by a mix of Environmental Investigations and Emergency Spill response and cleanup. David's experience includes Risk Assessments, EOI's, preparation of OHS Management Systems and Compliance Audits as well as experience in dangerous goods, hazardous materials management, design, construction, and project management of both large and small projects.

David is now a senior consultant with Moore Consulting and Engineering using his experience with waste management and hazardous chemical storage and handling to provide consultancy services to the Dangerous goods Storage and Handling industry.

Services:

- Environmental Spill Response
- Contaminated Site Assessment and cleanup
- Upgrading of fuel storage facilities
- Phytoremediation
- Window composting
- Dangerous Goods Storage and Handling
- Solid Waste Management
- Remediation of contaminated soil and groundwater
- Project Management
- Bioremediation with Satic Biopiles
- HAZCHEM response and cleanup

Robinson, Ms Sally

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Profile:

Sally Robinson has a B.Sc. Honours degree in Geology and Zoology, a BA in Australian History and Psychology and a postgraduate qualification as a Clinical Transactional Analyst. She has worked in mining and petroleum exploration (1971-1981) then with the WA Environmental Protection Authority (1981-1989) on environmental impact assessment, environmental policy, development of guidelines and codes of practice, pollution licensing (as Manager) and implementation and monitoring. EIA experience includes infrastructure projects (e.g. airports, roads, waste disposal, power lines, small boat harbours, dredging), major planning and industrial projects and managing the assessment for the EPA of manager of the Peel-Harvey Management Strategy (Dawesville Channel) project. She initiated integrated catchment management in WA, working in that field from 1989-94 when she formed her consultancy spending 1995 working on the first national State of the Environment report. Sally was Deputy Chairman of the WA Environmental Protection Authority Board, from 1997 to 1999 and a State finalist in Telstra Australian business Women of the Year Awards, 1999. She provides advice to manages projects for clients on approvals strategy and develops innovative environmental approaches. In 2002 she was awarded a Certificate of Merit in the Golden Gecko Awards for her work for Simcoa on an environmental offset approach to gaining their environmental approval.

Services:

- Natural resource and ICM policy, law and practice throughout Australia
- State of the environment reporting
- Environmental impact assessment and process management
- Environmental management
- Environmental and water industry policy and law development
- Community involvement and environmental dispute resolution
- Development of innovative environmental/frameworks for management
- Literature review, knowledge integration to produce brief, easy to read reports
- High level science writing and technical editing
- Site suitability assessment
- Scripting community environmental education videos

Rolls, Mr Stephen (Steve)

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Profile:

Steve Rolls is a graduate in Biological Sciences from both Curtin and Murdoch Universities. Steve has been an environmental management consultant since 1988 and is Senior Associate Director of RPS Bowman Bishaw Gorham and Director of Environwest Pty Ltd. Client services include environmental impact assessment and strategic advice to urban, rural and tourism developers, environmental management strategies, government liaison, and active management of projects through the environmental assessment process. Steve offers extensive expertise in the preparation of environmental assessment documentation on behalf of proponents for government and community consultation in accordance with the requirements of both Sections 38 and 48 of the Environmental Protection Act, 1986.

Services:

- Project management
- Environmental impact assessment
- Conflict resolution (proponent/regulatory authority)
- Environmental management strategies
- Formal and informal assessment documentation
- Opportunities and constraints analysis
- Urban and special rural subdivision
- Urban Wetland design
- State and local government liaison
- Client representation
- Strategic advice
- Tourism projects

Ryall, Mr Murray

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Profile:

Murray Ryall has over twenty five years experience related to both the mining and water industries throughout Western Australia and in the Northern Territory. His particular expertise lies in environmental data collection and management for statutory reporting requirements, including National Pollutant Inventory and Greenhouse. He has practical experience in mine rehabilitation and undertaking or supervising monitoring in most environment related areas. Murray has managed the preparation of documents for annual environmental reports, new project approvals, environmental management plans for small and medium sized mining companies, and specialises in NPI and greenhouse profiling and reporting. Murray has been a consultant since 1991 and is Project Manager for Greenbase.

Services:

- NPI and Greenhouse Accounting
- Environmental data management
- Application database design and construction
- Environmental project management and co-ordination
- Mining approval documentation and negotiation
- Minesite revegetation

Santich, Ms Sandra

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Profile:

Sandra is currently employed as a botanist/environmental scientist at Syrinx Environmental. Prior to joining Syrinx Environmental Sandra spent two and a half years at the Department of Environmental Protection providing botanical/conservation advice to the EPA. Sandra has also consulted on several small projects.

Services:

- Vegetation/flora surveys
- Environmental Impact Assessment
- Rehabilitation
- Restoration Ecology
- Plant Research
- Community Liaison

Scheltema, Ms Martine

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Profile:

Martine Scheltema is a Partner of ATA Environmental with over fifteen years experience in environmental impact assessment, environmental planning, and natural resource management, including five years in environmental consulting. Martine has particular experience in undertaking multi-disciplinary environmental impact assessments, environmental planning, project management, negotiations with regulatory authorities and State agencies, community consultation and natural resource management projects. Martine has prepared numerous EIAs and EMPs in the industrial, transport, resource and residential sectors. These tasks have involved close liaison and cooperation with clients, statutory authorities, other stakeholders and on-site contractors, and required a wide range of managerial and technical expertise.

Services:

- Environmental planning and management
- Land management and rehabilitation
- Environmental approvals
- Consultation with community groups, local authorities and government departments
- Environmental impact assessment
- Natural resource management

Shaw, Mr James (Jamie)

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Profile:

Jamie is a Principal Environmental Scientist with AECOM with fifteen years experience in environmental management and advisory services. He commenced his career providing environmental management and sustainable land use advice to Hamersley Iron regarding its Pilbara pastoral estate. Since joining AECOM, Jamie has gained experience in statutory environmental approvals process, management of biological survey projects and environmental management of large scale construction projects. An accredited Project Manager, Jamie manages EIA, advisory and planning projects, has a strong understanding of the regulatory requirements for approval submissions, and is particularly skilled in managing specialist subconsultant inputs to EIA. Jamie is an experienced auditor, having undertaken a range of internal and third party compliance audits of construction projects and industrial facilities.

Services:

- Project Management
- Environmental management plans
- Construction environmental management
- Environmental Impact Assessment
- Environmental monitoring program design and implementation
- Rehabilitation of degraded agricultural land
- Environmental Management System submissions
- Environmental Audits
- Environmental and Social impact assessments
- Vegetation and flora survey

Shepherd, Ms Shelley

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Profile:

Shelley has significant experience in environmental planning, gained through employment in various State Government agencies and most recently in private practice as Essential Environmental Services. Shelley's main area of expertise is in the development and application of environmental planning policy. She was instrumental in the development of Statements of Planning Policy for the Environmental and Natural Resources, Public Drinking Water Sources and Water Resources. She is also involved in developing material to aid in the implementation of these policies by Local Government and the planning and development fraternity. Shelley is currently involved in various environmental planning and natural resources management projects and maintains working alliances with environmental professionals in private practice as well as good relationships with officers in State Government agencies.

Services:

- Environmental land use planning
- Environmental policy development
- Natural resource management
- Greenhouse gas abatement in transport and land use sectors
- Project management
- Group facilitation
- Strategic land use planning
- Environmental impact assessment
- Sustainability and planning
- Native remnant vegetation protection
- Community liaison and consultation
- Report writing, compilation and editing

Shute, Mr Spencer

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Profile:

Spencer Shute is a Masters qualified coastal ecologist. He has six years of consulting experience carrying out varied projects for a range of international clients. Spencer has experience in the collection and analysis of biological and environmental data sets, in the preparation of baseline reports, impact assessments, appropriate assessments and environmental statements. He has undertaken extensive ecological studies within a range of systems including temperate estuarine, reef and soft sediment benthic communities and tropical seagrass and reef habitats.

Smith, Mr Stuart

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Profile:

Stuart Smith is a Director of RPS Bowman Bishaw Gorham. He holds a B.Env.Sc. He has practised as a consultant since 1989 and was previously with the Industrial Developments Section of the (then) EPA. Stuart offers specific expertise in the management of environmentally hazardous substances and wastes. His range of project experience includes the conduct of several site contamination assessment and clean up programs, public health and environmental risk assessments, environmental compliance and performance audits, waste management and site selection studies, due diligence enquires and statutory submissions for industrial projects involving the production, storage and transport of hazardous substances.

Services:

- Site contamination assessment and management
- Public health and environmental risk assessment
- Air, liquid and solid waste management
- Environmental auditing
- Waste disposal site selection
- Hazardous substance handling, storage and transport
- Environmental impact assessment and documentation

Stasikowski, Mr Andre

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Profile:

Andre Stasikowski has worked in the environmental, scientific and engineering profession since 1985 and has conducted various projects in RSA, Namibia, Lesotho, Chile and Australia. His core specialities are groundwater numerical modelling, EIA's, EMP's and environmental auditing of ISO 14001 management systems.

Services:

- Ground water modelling, flow and quality
- Environmental management programmes
- Environmental impact assessment, environmental site assessments and strategic environmental assessments
- Stochastic surface water quality monitoring
- Risk analysis
- Environmental auditing and ISO 140001

Steedman, Dr Raymond (Ray)

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Profile:

Dr Steedman has over thirty years experience in national and global environment and ocean service businesses, and government environment and marine science agencies. Major private sector positions: Executive Director and CEO of R K Steedman and Associates and Steedman Limited, 1974-1989; Executive Director of Oceanroutes (Australia) Pty Ltd, 1989-1994; Director and CEO of Aerodata Holdings Limited, 1993-1997 and 1997-2000; Chairman of Manatacom Technologies Pty Ltd, 1991-1993, providing advanced science, geophysical fluid dynamics, environmental and technology services and products for the mining, oil and gas, defence and government agency sectors. Major public sector appointments: Councilor and Chairman of the Australian Marine Institute of Marine Science (Townsville), 1982-1991 and 1991-1997; Executive Chairman of the Environmental Protection Authority in Western Australia, 1997-2001; Member State Library Board of Western Australia, 1990-1995. Currently Ray is an ocean and environmental consultant to industry and government; part time Executive Chairman (UNESCO/IOC) Western Australian Global Ocean Observing System, 1992 to present; Governor of Leeuwin Ocean Adventure Foundation, 1985 to present. The Australian Government awarded him the Centenary Medal in recognition of his contribution to society.

Services:

- Direct and manage environmental and technology based enterprises
- Develop and implement corporate environmental strategy, policy and operational planning
- Implement environmental organisational systems and processes, including organisational governance and compliance
- Implementing environmental research and development to maintain market leadership
- Communicate effectively with shareholders, stakeholders, customers and staff
- Develop effective environmental review and performance measures
- Work effectively with boards of directors, government ministers and executives to solve environmental problems

Stephens, Mr Lindsay

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Profile:

Lindsay Stephens has operated as a consultant since 1988. He has a B.Sc. With majors in Geology and Geomorphology, an M.Sc. in Plant Ecology and is a member of the Australian Geomechanics Society. Lindsay specialises in land systems, with emphasis on land capability assessments, soils, nutrients, geotechnics and management of basic raw material quarries. His regular clients include many planners, most of the quarrying companies in Western Australia and local governments. He has extensive experience throughout the south west, agricultural, metropolitan and coastal areas. Lindsay operates as Landform Research.

Services:

- Excavation and project management of quarries
- Basic raw materials
- Nutrient management
- Preparation of extractive industries licence documentation
- Land capability for developments
- Soils, geology and geotechnics
- Surface and groundwater
- Vegetation and rehabilitation

Teale, Mr Roy

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Profile:

Roy Teale is a Zoologist with over eleven years experience in the planning and implementation of terrestrial fauna surveys. With a specialist background in the assessment and management of rare fauna populations and meeting the environmental requirements of the mining industry, Roy has carried out field survey work for a range of resource development clients in the Pilbara, Goldfields and South-west of the state. Roy is currently a Director with Biota Environmental Sciences Pty Ltd.

Services:

- Fauna and flora surveys
- Environmental impact assessment
- Data analysis
- Rare fauna assessment and management
- NOI and AER preparation

Thompson, Dr Scott

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Profile:

Dr Thompson is primarily responsible for terrestrial fauna surveys, however, assists with urban land development and other natural resource management projects. Dr Thompson has extensive experience in understanding terrestrial fauna surveys, biological assessment and environmental impact assessment and is experienced in conducting remote location fauna surveys, targeted rare fauna surveys and developing management strategies for developments across Western Australia. Dr Thompson regularly publishes in the scientific literature and presents at national and international conferences and workshops. Recent publications are specifically related to information on species accumulation curves, biodiversity, invertebrates, specific species ecology, trapping effort, temporal variations, rare or conservation significant species, reptile assemblage structure in mesic and arid environments and the adequacy of fauna assessments for preparing EIA.

Services:

- Terrestrial Fauna Surveys
- Fauna Relocation
- Ecological Management of Arid Ecosystems
- Project Management
- Management of Feral Animals
- Fauna Monitoring Programs
- Fauna Management Plans
- Conservation Significant Targeted Fauna Assessments

Toon, Mr Joseph

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Profile:

Joseph Toon is an Environmental Scientist with 360 Environmental Pty Ltd. Joseph completed a Bachelor of Science (Hons) at the University of Queensland and was a Project Officer at the Queensland Seafood Industry Association (scientific and regulatory liaison) prior to joining 360 Environmental. Joseph works in a range of sectors including residential and industrial development, infrastructure and mining.

Services:

- Project Management
- Environmental Planning and Approvals
- Environmental Management Plans
- Data Management/Analysis
- Environmental Impact Assessment
- Environmental Due Diligence

Tuffnell, Mr Glenn

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Profile:

Glenn Tuffnell has a history of Phytophthora root rot mapping and detection in native vegetation communities on a full time basis between March 1991 and September 2003. Glenn spent three years in Phytophthora assessment for the Department of Conservation and Land Management and another nine years building Glevan Dieback Consultancy Services with Evan Brown. Glenn decided to focus on managing Phytophthora through strategic treatment and started a new company called Dieback Treatment Services in September 2003. Glenn is nationally accredited to offer management solutions for risk minimisation of Phytophthora and to apply pesticides to manage pests.

Services:

- Phytophthora root rot (dieback) detection, and strategic treatment utilising the environmentally friendly chemical phosphite
- Workshops and training – Phytophthora (dieback) awareness and treatment
- Icon plant protection

Van Der Beeke, Dr Paul

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Profile:

Dr Paul van der Beeke graduated with a Doctorate in chemistry from the University of Waikato in Hamilton, New Zealand in 1981. He has over twenty years experience including eleven years as a consultant since joining Dames & Moore in 1990 as a Consultant Environmental Chemist and Occupational Health & Safety Co-ordinator. In 1998 he established EnvironSkill International to provide training and consulting in occupational health and safety, environmental field skills, site contamination investigation and hazardous waste handling and disposal.

Services:

- Occupational health & safety training for contaminated sites and field operations
- Contaminated sites management training
- Environmental field skills training
- OHS auditing
- Environmental auditing
- Monitoring programmes
- Health, safety and environment planning
- Sampling and analysis programmes
- Hazardous waste
- Project management

Wajon, Dr Johannes Edmund (Eddy)

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Profile:

Eddy Wajon is an Environmental Chemist with twenty-five years experience in sustainability, environmental impact assessment, environmental management, waste and wastewater management, planning and water quality monitoring and odour management. Eddy has worked in most areas of environmental management and for many different kinds of industries including mining, chemical processing, mineral processing, power generation, manufacturing and wastewater disposal. He was environmental manager for the Woodman Alliance delivering the Woodman Point Environmental Enhancement Project where he introduced a number of sustainability initiatives. He was recently awarded the Batty Medal by the WA Branch of the Royal Australian Chemical Institute for his services to industry and the quality of life, particularly the environment.

Services:

- Environmental impact assessment
- Environmental auditing
- Disinfection studies
- Water auditing
- Environmental management
- Conceptual design of wastewater treatment and disposal systems
- Odour assessment and control
- Contaminated site assessment
- Environmental awareness training
- Solid waste management

Watson, Mr Mark

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Profile:

Mark is Chairman and Managing Director of RPS Ecos, employing some twenty two environmental specialists, in offices in Perth, Adelaide, Brisbane and Melbourne. Having worked as a technical officer in the South Australian Dept of Agriculture and a Scientific Officer in the South Australian Dept of Lands, Mark joined Santos Ltd as a Senior Environmental Officer.

In 1994 Mark left Santos and formed a consultancy, Ecos Consulting Pty Ltd with a colleague. Ecos has undertaken over seven hundred projects in the broad sphere of environmental advice for, both industry (predominately petroleum) and government under Mark's leadership.

Services:

- Strategic Environmental Advice to Industry & Government
- Regulatory approvals at local, State and Commonwealth Level
- High level management, systemisation and governance
- Development & Implementation of Environmental Management Systems
- Negotiation with Government, Industry, Community and Indigenous Groups
- Environmental Impact Assessments
- Environmental Training and Induction
- Environmental Auditing
- Environmental field work and supervision
- Representation on/with Industry Associations

Welker, Mr Charles (Charlie)

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Profile:

Charlie Welker B.Sc.(Hon) has more than twenty years experience in environmental and planning agencies in WA and Victoria. He has extensive experience in senior management, project management, policy formulation and environmental impact assessment of proposals in WA. Since 1994 Charlie has been Principal of Welker Environmental Consultancy, and has provided services to industry and Government including environmental impact assessment, development of environmental management systems, NPI emissions estimates, management plans and audits. Charlie has developed environmental policies and procedures, management plans and policies for water resources.

Services:

- Preparation of environmental impact assessments
- Management of environmental issues and community consultation
- Negotiation of environmental conditions
- Project management/co-ordination
- Facilitation of proposals through environmental impact assessment procedures
- NPI emissions estimates
- Interpretation and application of environmental legislation
- Review and development of environmental management and audit systems
- Development of contaminated site assessments and clean-up plans
- Formulation and review of environmental strategies and plans
- Water resource management plans and policy

Wells, Mr Martin

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Profile:

Martin Wells is the director of Land Assessment Pty Ltd. He is a soil surveyor, agricultural scientist and environmental planning consultant with a broad background in natural resource management investigations throughout Australia. After graduating in 1976, Martin worked for fifteen years within government agencies in the Northern Territory, Tasmania, Victoria and then Western Australia before establishing a consulting business in 1991. Through extensive consulting and government agency experience, he has developed specialist expertise in land resource survey, land capability assessment and environmental planning. His consultancy activities focus on providing natural resource management inputs for sustainable land use planning and development

Services:

- Soil/land resource survey and mapping
- Synthesis of natural resources information for land-use planning and management strategies
- Land (capability/suitability) studies for rural-residential or horticultural developments
- Environmental planning reports (for structure plans, rezoning or subdivisions)
- Site analysis (opportunities/constraints) for land development

White, Mr Kevin

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Profile:

Kevin White is the Manager of Dingle & Bird Environmental.

Kevin has undertaken and been associated with numerous environmental investigations and reports encompassing a wide range of projects.

Services:

- Contaminated site assessment & remediation
- Environmental project management
- Property & building assessment
- Ecosystem restoration management systems and training
- Air quality and OH&S
- Acid Sulphate Soil assessment and dewatering
- Hazardous materials audits

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Profile:

Joanna Whiteford has over fifteen years experience in the technical direction and management of strategic planning and environmental assessment and environmental management of projects in areas of conservation, urban infrastructure, marine, planning and development and industry, with the last six years having been spent working on large scale projects in Hong Kong. Joanna has provided advice on technical, legislative and environmental management issues and acted as liaison with Government regulators in these areas. This has involved the coordination and management of large multidisciplinary teams and involvement in multimillion dollar projects. Joanna has extensive experience in auditing of environmental monitoring and management and is a certified auditor under ISO9001 having previously held a role as Divisional Quality Manager for three years. Joanna is currently an independent Consultant operating as Petra Consulting and is actively involved in the tertiary education sector both at Murdoch and Curtin Universities and in international training in Environmental management, and environmental and public health.

Services:

- Strategic environmental management and assessment
- Development and management of environmental monitoring programmes and audit requirements
- management and technical direction of multidisciplinary teams on large projects
- Experience in high level government and NGO liaison, consultation and presentation
- Environmental impact assessment
- Development of environmental management strategies and plans
- Significant international experience in Asia
- Long term involvement in environmental education and training.

Whittle, Mr Phillip (Phil)

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Profile:

Phil Whittle is a marine scientist with over seven years experience in coastal and marine research and management. Mr Whittle has a B.Sc. in Environmental Management and a M.Sc. in Aquatic Chemistry/oceanography. Mr Whittle has technical expertise in the biogeochemistry of aquatic systems, marine pollutant impact assessment and oceanographic processes. Previous work has exposed him to a range of aquatic environments including tropical, subtropical, temperate and boreal systems. Mr Whittle has extensive experience in the design and implementation of riverine, estuarine and coastal monitoring/rehabilitation programs as well as environmental impact assessments and major report preparation. He also has significant experience in environmental management aspects of the natural resource industry in Australia, Canada and Asia.

Woodman, Mrs Deborah (Debbie)

PO Box 50 Applecross, WA 6953

Telephone: 9315 4688

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Email: woodman@inet.net.au

Profile:

Debbie Woodman has a B.Sc. in Biology with Honors in Environmental Science, and has been consulting for thirteen years. Debbie has experience in all aspects of flora/vegetation studies, rehabilitation, wetland management, environmental management programs and a knowledge of the government approvals process. She has also managed a variety of projects for the mining industry and government throughout Western Australia.

Services:

- Flora and vegetation studies
- Data analysis
- Wetland management and rehabilitation
- Rehabilitation planning and monitoring
- Project management
- Environmental management programs

Woodman, Mr Gregory (Greg)

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Profile:

Greg Woodman is an Environmental Scientist with a background in environmental assessment and management in the mining, oil and gas and infrastructure industries in Western Australia. Greg holds a B.Sc. (Hons) degree from Murdoch University and has fifteen years experience in Phytophthora research and management, biological surveys, environmental impact assessment and design and implementation of specialist environmental studies. Greg also has experience with in-house environmental support and project management for new projects.

Services:

- Environmental impact assessment
- Statutory approvals
- Project management
- Environmental management
- Environmental support for mining companies
- Biological surveys
- Phytophthora (dieback) assessment and management
- Biological monitoring
- Biological/environmental studies

Woolard, Mr Colin

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Profile:

Colin Woolard is an Environmental Geologist with over twenty years experience in geology and environmental management covering a range of mineral commodities across several climatic zones. Over the past six years Colin has been closely involved in EMS development, resource conservation, public environmental reporting and developing ways of integrating environmental management into mainstream business processes. Colin established his own consulting business in 1999 which provides services to the mining, exploration and industrial sectors in a range of areas.

Services:

- Site contamination assessment and management
- Community consultation and regulatory liaison
- Development and implementation of mine rehabilitation and closure plans
- Lease acquisition and relinquishment audits
- Preparation of mining approval documentation
- Environmental project management and impact assessment
- Workforce awareness and training
- Environmental management in exploration

ENGAGING A CONSULTANT

Hiring a consultant can be a difficult task for a client who lacks experience in this arena and does not know how best to go about the process: defining requirements of the consultancy, determining suitable consultants to meet those requirements, selecting a preferred firm to carry out the work, and ultimately ensuring that a satisfactory product is provided at a reasonable price. The following guidelines have therefore been prepared to assist clients in this process.

1. Defining Requirements

A prospective client must first define what is wanted from the project and from the consultant engaged to undertake it. This is best done in the form of a Brief that defines the scope of work required. It will usually also indicate what information the client requires from tendering consultants to assist in evaluating their proposals.

Accordingly the Brief might embrace some or all of the following components:

- Detail on the scope of work to be carried out and the final product that is required. This may, for example, include
 - review of prior relevant investigations and of reports on these,
 - consultation with interested parties who have views or information to offer on the project,
 - site investigations,
 - compilation of relevant data from all of the above and any other available sources, and interpretation of this data,
 - submission and subsequent review of a draft report, and
- amendment of the draft report to present a final document and recommendations.
- A preferred schedule for carrying out the work, including start and finish dates and any interim check points.
- Information the client requires to assist in assessing the competence of tendering consultants and their costs. This might include:
 - definition by consultants of how they intend to approach and carry out the project;
 - personnel to be involved and the particular input each will make to the project;
 - the experience of these personnel and of the consultancy firm as a whole, particularly in relation to projects of a similar nature to the one on which tenders are sought;
 - a breakdown of costs the consultant will charge to carry out the work, including hourly/daily rates for individuals, incidental expenses and the total cost;
 - a timetable for carrying out the various components of the project; and
 - evidence of appropriate insurance coverage (usually professional indemnity, public liability, and, if employees or sub-contractors are to be involved, workers compensation).

In some cases, particularly where the Brief is not sufficiently specific, a client may indicate to tenderers the budget for the project. While this is not essential, it is often prudent to at least indicate an approximate price range for the project (eg. projects of different magnitude might be indicated as falling in the price range \$6,000-9,000 or \$40,000-60,000). This can ensure that all submissions are based on a common premise as to the detail of investigation required by the client, so that the proposals better lend themselves to comparison.

In the absence of indicative price information, different consultants can have different perceptions of the depth of investigation required, leading to widely divergent quotations. Cheaper proposals in such cases could be based on a superficial and inadequate level of investigation, while more expensive proposals may better meet the requirements of the project, yet this can be difficult for a client to discern.

The length and detail of the Brief will generally be related to the size and complexity of the job. A major project may require a complex and lengthy Brief to cover all its elements, but it is inappropriate, on the other hand, to provide a long or complex Brief for a small and simple job.

2. Invitation to Tender

Using the Brief to define the client's requirements, proposals can then be sought through several avenues - direct selection of a single consultant, selected tender, or open tender. Again, the avenue chosen may depend on the size and complexity of the job.

Tendering firms should be advised of the criteria to be used by the client in selecting the successful tenderer and the relative weight to be attached to each of these criteria. Recommended criteria are discussed at 3 below.

2.1 Single Consultant

The client may simply invite one consultant to submit a proposal and quotation. This may occur where the client's prior experience of the consultant, or that of others whose advice the client respects, gives confidence that the consultant is well equipped to carry out the work at a realistic price.

The process is straightforward, but demands a sound knowledge and trust of the consultant by the client or the client's advisers and a responsible approach by the consultant in the absence of competition.

The client can reserve the right to seek further proposals and quotations if the proposal submitted by the preferred consultant appears inadequate or the price is excessive.

2.2 Selected Tender

In this case the client invites a small number (say 2 to 4) to tender.

The chosen tenderers may be selected by first inviting expressions of interest through an advertisement. This will provide a brief outline of the nature and objectives of the project and will request a statement of relevant capabilities and experience from those who respond. The client subsequently determines from these the firms that appear most suited to the project.

Alternatively, the client may draw upon his/her own prior experience, or that of others such as government or industry personnel, to select suitable firms.

In either of the above two cases, the ECA Register of Members can assist by facilitating the matching of consultancy firms against the expertise required.

The firms selected through this process are subsequently issued with a copy of the Brief and are invited to respond with a detailed proposal and cost.

The approach has the advantage that consultants will be more interested in tendering as the prospect of being the successful tenderer is very much increased.

From a client's standpoint, it simplifies the sieving process to select a successful tenderer. Furthermore, if the basis for selecting preferred tenderers is sound, the client is more assured of securing quality proposals from those most suited to carry out the work.

2.3 Open Tender

In an open tender process, the client generally advertises through the press, providing brief details on the project and on what will be required of a successful tenderer, and inviting interested parties to request a copy of the Brief.

This process is the least satisfactory of the three, often yielding large numbers of proposals whose comparative merit is unclear. The client then has a most difficult task to discern which of the large number are worth short-listing for closer appraisal.

The approach also runs the risk that some competent consultants who are in greater demand may not respond, because the process is time-consuming and the prospect of being selected from a large field is low. Thus the best consultant for the job may be missed by the client.

3. Review of Tenders and Selection of Preferred Consultant.

It may be unwise to select a consultant on price only. Rather, it is a matter of balancing the quality of the proposal, the background and experience of the personnel who are to carry out the work, the price that is to be charged for their time, and the nature of the project.

In reviewing tenders a client should consider the following key points to seek a consultant who will provide a satisfactory product for a competitive price:

- Whether the proposal adequately addresses the Brief, demonstrates an understanding of what the client requires, and indicates sufficient knowledge of the sphere of investigations to ensure that the consultant can carry out the work satisfactorily.
- Whether the consultant appears able to meet the time schedule for the project without unacceptable overruns on either time or budget.
- Whether the past record of the firm and the professional qualifications and experience of individuals who are to work on the project indicate a background that equips them adequately to undertake the work. The quality and experience of those individuals who will be carrying out the most important elements of the project are particularly important, as are the expertise and time commitment of the person designated to manage the project.
- The hourly rates proposed for each individual who is to work on the project and whether these represent good value for the expertise that is being offered, and the total price quoted and whether this appears reasonable for the scope and quality of work offered.
- Is the consultant a member of the Environmental Consultants' Association? All ECA members are recognised professionals in their field who have committed to the Association's code of ethics. If problems arise, there can be recourse via the Association for lodgement of a complaint and subsequent arbitration and/or conciliation.

4. Appointment of Consultant

Having selected a preferred consultant, the client should issue a letter of appointment clearly stating the terms of engagement. Some organisations and consultants have a standard set of terms and conditions covering a wide range of aspects, from standard of work through invoicing and payment to situations in which employment may be terminated.

If the scope of the project is uncertain (eg. there may be potential for findings emerging in the course of the project to change its scope), there should be an understanding at the outset, reflected in the terms of engagement, of the basis on which any additional work will be undertaken. This will usually involve stipulation of an hourly rate at which additional work is to be charged together with an understanding on negotiations between the client and the consultant before additional work is commenced.

It is prudent for the client to meet the consultant at project initiation to fully discuss the work to be undertaken. This should aim to ensure full understanding on both sides of the objectives, scope and expectations of the project, timing and budget, and the terms of engagement.

5. Monitoring Progress

Engagement of the consultant may be only the beginning, particularly if the job is long and/or complex. The client may wish to ensure that the final product satisfactorily addresses the Brief by maintaining regular liaison with the consultant as the project proceeds.

Such liaison is in the interests of both parties, so that the client remains informed on works progress and emerging findings, and is in a position to discuss with the consultant possible variations to the scope or emphasis of the project, should emerging findings suggest such variation is warranted.

While the original Brief will generally prove satisfactory to see a project through to completion, it is sensible to retain flexibility in case unforeseen findings emerge that justify a modification to the Brief. Any such modifications should be suitably documented.

If the client is kept fully informed on emerging findings and their interpretation, the consultant's report and recommendations should present no surprises and should satisfactorily address the client's requirements. A safeguard can be provided by having a two-step reporting phase:

- submission of a draft report which the client and other interested parties review in consultation with the consultant to agree on amendments; and
- a final report which is subsequently drafted to reflect the findings of this process.

