

POSTER ABSTRACTS

ENVIRONMENTAL MANAGEMENT SYSTEMS - THE CENTRAL AUSTRALIAN PASTORAL EXPERIENCE

Dionne Walsh, Centralian Land Management Association, PO Box 2534, Alice Springs NT 0871. ems@clma.com.au

Rebecca Cadzow, Mt Riddock Station, via Alice Springs NT 0872

Between 2003 and 2006, the Centralian Land Management Association (CLMA) has been trialling an Environmental Management System (EMS) process on 15 pastoral properties in the NT and SA. The participants found that a formal EMS would be overkill for most family-owned businesses in the region. The main negative of an EMS was found to be the relatively high amount of “paper-shuffling” compared to the amount of on-ground action. This is even despite our process being a “bare-bones” EMS without any third-party audit.

On the positive side, the participants really appreciated getting a full set of maps and supporting information about all the environmental resources on the station. More than one participant commented that they didn’t realise how much “outsiders” knew about their properties. Other positives identified by participants were increased access to landcare funds, improved record-keeping in the business and being able to determine compliance with the relevant environmental laws. For most, the EMS process was able to verify that they are already doing so much good environmental work and their management is on the right track.

During our project we developed a number of locally relevant environmental planning and monitoring tools. We have purposely ensured that the tools can be used jointly to develop an EMS or can be used as stand-alone products. This gives people the option to pick and choose those tools that will meet their needs without having to develop a full EMS. Our poster will showcase these tools with the aim of showing how they could be modified for other jurisdictions and industries.

DELIVERING PEST MANAGEMENT SOLUTIONS IN THE SOUTH AUSTRALIAN ARID LANDS

Bethany Greenfield*, Ben Shepherd and John Pitt

Rural Solutions South Australia, PO Box 357, Port Augusta SA 5700

Pest plant and animals directly impact or threaten all social, economic and environmental assets of the South Australian Arid Lands. This extensive region is sparsely populated and financial resources rarely match pest management requirements. This necessitates that pest management moves from individual control efforts to a more coordinated, strategic, region wide approach.

The Animal and Plant Control team of Rural Solutions South Australia, provides technical services to a range of arid lands stakeholders, who recognise the need for planning, coordination of stakeholders and their projects, strategic surveys and effective on-ground outcomes. Key pest management programs in the SA Arid Lands where RSSA has had a key role in delivery have included:

- Establishing a process and structure for determining common pest management objectives and regional priorities through the development of the SA Arid Lands Pest Management Strategy.
- Delivery of the objectives of the Strategy – for example management plans are being written for priority species, such as feral camels, *Opuntia* sp. and buffel grass (*Cenchrus ciliaris*).
- Strategic surveys - aerial surveys for woody weeds and pigs on the Diamantina Warburton and Coopers Creek systems and weed surveys in the Gammon Ranges, Gawler Ranges and Bimbowrie National Parks and the Arkaroola Sanctuary.
- On-ground works in priority areas or for priority species - such as oleander (*Nerium oleander*) control trials in the Parachilna Gorge and mesquite (*Prosopis* sp.) control across the region.
- A coordination and collaboration role for the region, through RSSA's networks with neighbouring NRM Boards, and extending interstate by representing the SAAL region in the Cross Catchment Weeds and Feral Animal Initiative.

Our poster will display these and other components of successful, strategic pest management being undertaken in the South Australian Arid Lands region.

Key Words: Pests, Management, Strategic, Rural Solutions, Surveys, Coordination.

THE SCIENCE OF DESERT LIVING

R.R.J.McAllister^{1,2} and D.M. Stafford Smith^{2,3}

¹CSIRO Sustainable Ecosystems, 306 Carmody Rd, St Lucia 4067

²Desert Knowledge CRC, Alice Springs 0871

³CSIRO Sustainable Ecosystems, Gungahlin GPO Box 2601

Life in desert regions of Australia (and indeed worldwide) is affected by a number of features – variability in climate, markets and policy that is outside the control of local people; sparse and often mobile populations; natural, human and cultural resources that are patchy in space and time; and relatively poor scientific understanding in regions with significant local and traditional knowledge, among other factors. These drivers affect not only ecology and natural resource management, but also service delivery, enterprise development, governance systems and many other aspects of desert living. This paper outlines moves towards consolidating these issues into an integrated, inter-sectoral new discipline – the Science of Desert Living. Aside from helping to consolidate an otherwise small and disparate research effort in desert lands, this new discipline will help to develop a solid underlying theoretical basis for developing solutions to applied desert living problems more rapidly and confidently. Practical examples will be presented where learning from one sector, such as natural resource management, can then be rapidly applied in others, such as enterprise development.

QUEENSLAND WETLANDS PROGRAMME — WETLAND MAPPING, CLASSIFICATION AND WETLAND *INFO* QUEENSLAND

V.E. Bailey^A, M. Ronan^B and Qld Wetlands Mapping Team^C

^A Environmental Protection Agency, Queensland, PO Box 202, Longreach, QLD. 4730

^B Environmental Protection Agency, Queensland, PO Box 15155, Brisbane City East, QLD.
4002

^{ABC} Email: wetlands@epa.qld.gov.au

ABSTRACT

The main driver behind the Queensland and Australian governments' work on wetlands is to support projects and programs that will result in long-term benefits to the biodiversity, management and sustainable use, and conservation of Queensland wetlands.

The Queensland Wetlands Programme is funded through two sub programmes and involves cash and in-kind government support. The two Programmes are the Queensland Natural Heritage Trust Wetlands Programme (NHT Wetland Programme) and the Great Barrier Reef Programme. It commenced in 2003, and is being implemented over 5 years. A number of projects are being funded under the NHT Queensland Wetlands Programme including:— Wetland Mapping and Classification; Wetland Inventory Database (*WetlandInfo* Queensland); Wetland Management Profiles; Monitoring, Evaluation and Reporting Strategy; and Information Review and Gap Analysis.

This poster will broadly focus on the Wetlands Mapping and Classification and *WetlandInfo* Queensland projects.

INTRODUCTION

No one organisation –industry, research or government department is responsible for all knowledge and information, research and management of Queensland wetlands. Through the various projects under the Queensland Wetlands Programme, information on Queensland wetlands will be captured, stored, disseminated, and updated through *WetlandInfo* Queensland. This can assist stakeholders with wetland self-management; regulatory frameworks; education and extension; science and research; partnerships and incentives; priorities and targets; and monitoring and evaluation.

METHODS

The purpose of the Queensland Wetland Mapping and Classification project is to incorporate existing knowledge, and to map and classify Queensland wetlands into a comprehensive, wetland coverage, at a scale and level of detail that can support informed management decision-making.

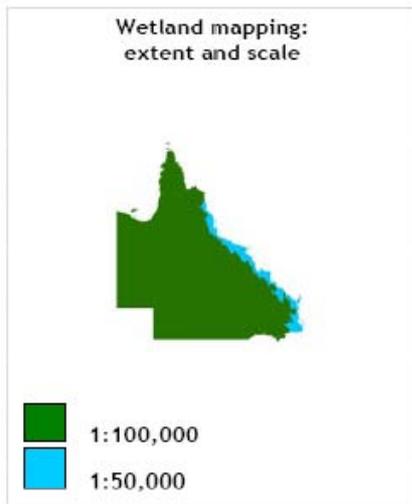


Figure 1: Qld Wetland Mapping Extent and Scale

The mapping methodology uses existing mapping layers (topographic, vegetation, satellite imagery etc.) and combines these in a manner that maximises the usefulness of each layer. All areas of the state will be mapped to a 1:100,000 (min of 5 ha) scale, with areas of the Great Barrier Reef being mapped to 1:50,000 (min of 1 ha) scale.

Wetlandinfo Queensland will provide a first stop shop for wetland information. It will consist of a number of databases, specifically a geodatabase (spatially enabled relational database) that will integrate with other databases and websites and will capture pre-existing information collected, and the information developed by the Wetlands Programme, and its underlying projects.

ADVANTAGES AND OUTCOMES FOR STAKEHOLDERS

Wetlandinfo Queensland, will provide a single information system on wetland maps and data, in an easy to use format. This addresses the challenge of capturing, storing, sourcing and disseminating wetlands information through a single point, and delivers the information through a number of mechanisms eg web-based, CD's and information sheets.

Some outcomes include:-

- Improves the Queensland wetland information base;
- Enables multiple stakeholders to access, and add data and update information;
- Guides investment areas in Natural Resource Management funding;
- Assists in developing on-ground activities to protect and rehabilitate wetlands;
- Provides education and capacity building;
- Improves wetland communication; monitoring, evaluation;
- Guides priority acquisitions and conservation agreements;
- Provides specific and consistent advice to State government agencies, regional bodies and community, local government regarding wetland extent, values and impacts.

FOR MORE INFORMATION

http://www.epa.qld.gov.au/nature_conservation/habitats/wetlands/wetlandinfo/

<http://www.deh.gov.au/coasts/pollution/qldwetlands/nhtwetlands.html>

**OUTPUTS FROM FACILITATED DISCUSSIONS
(IAN PLOWMAN)**

INTRODUCTION

This year's LEB conference is closely followed by the first formal review of the LEB Agreement, following the first five years of operation of the Agreement. The conference, bringing together 97 delegates to discuss the Lake Eyre Basin, its issues and management challenges, presented an ideal opportunity to gather a wide range of feedback for input to the review of the LEB Agreement.

The conference program therefore included facilitated, plenary discussions after each of the three main theme sessions: 'People', 'Place' and 'Possibilities'. These were intended to assist in distilling the content of the conference presentations, and in gathering feedback and ideas from all attendees about the Lake Eyre Basin and the LEB Agreement. Conference delegates were invited to participate in these discussions openly and in a spirit of exploration and sharing.

A pre-printed work book was given to all participants at the start of the conference. This was intended for their private use in noting and considering key issues, and to assist in group discussions during the conference. For each conference presentation, participants were asked to record in their workbooks the speaker's key comments, along with their own thoughts or reflections on those key comments.

At the close of each of the three main conference theme sessions, a single focus question was posed to the audience. Participants were given five minutes of individual reflection and thinking time, during which they were asked to review their work book notes from all presentations in the session, consider the focus question, consider any personal experiences they may have had in the Basin to add to the insights they have gained, and record their individual thoughts in their workbooks.

Participants then formed groups of three with those people sitting adjacent to them. They were given fifteen minutes to share their thoughts in these small groups, and to note in their workbooks the things they seemed to agree upon within their groups.

Following these small group discussions, key common themes, ideas and issues were captured by a facilitator and two scribes in a plenary discussion.

The focus questions posed at the end of the main theme sessions were:

PLACE: *What have we learnt about the landscapes, environments and resources of the Lake Eyre Basin, and what does this mean for the physical management of place?*

PEOPLE: *What have we learnt about the people, communities and economies of the Lake Eyre Basin and what does this mean for managing the people issues?*

POSSIBILITIES 1: *What are the most critical issues facing the future of the Lake Eyre Basin and the LEB Agreement, and how will we deal with them?*

POSSIBILITIES 2: *Given what you feel are the most pressing challenges facing the Basin, what are the most important issues that should be encompassed in the review of the Agreement?*

This section of the proceedings presents the outputs from those plenary discussions. These outputs have been conveyed to the jurisdictions participating in the LEB Agreement, for consideration in the 2006 review of the LEB Agreement.

'PLACE' - What have we learnt about the landscapes, environments and resources of the Basin, and what does this mean for us?

PLENARY FACILITATED DISCUSSION: Gathering threads—Critical points and issues from the presentations on PLACE

This list is transcribed from the notes recorded by scribes on butcher's paper during the first plenary discussion of the conference, on Thursday afternoon 7th September 2006. Following transcription, items were grouped according to similarity or common themes, and italicised sub-headings have been suggested.

Question for reflection: What have we learnt about the landscapes, environments and resources of the Lake Eyre Basin, and what does this mean for the physical management of place?

Communicating knowledge

- Idea of place must be driven by people living there and what they want out of it.
- Communication is critical; up, down, sideways.
- Need to take into account the wider community.
- Ask questions in the right language [eg: 'B' or 'C' words]
- Sharing knowledge and ideas that work; but one size does not fit all. And consult on the ground.
- Value of communication inside and outside of LEB.
- We live in variable complex environments that we must understand better and steadily adapt to living with.
- Sharing knowledge the right way, so people listen and understand.
- Important to make people comfortable to ask the right questions, to gain most information to lead better learning.

Leadership support

- Need to be supporting those leaders demonstrating sustainable management.
- Replicating Reg Dodd's model [using tourism for cross-cultural communication, livelihood creation and passing on knowledge to younger Indigenous people whilst providing them with work] (including encouragement of next generation) elsewhere.
- Local champions providing examples of best practice.

Relevant research

- Focus more science on supporting production needs, where producers already finding possible options.
- Extension and the scientific community are risk-averse. Landholders often need to take a risk, but researchers/scientists don't.
- Need to have a place for the monitoring & evaluation (too dispersed) & monitor the land systems as well as the river systems.

Human capital

- Competition for resources among pastoralism, mining, tourism, and we need to manage that.
- Attracting people to place, and retaining them, is getting harder. Many competing demands and opportunities for people.
- Importance of education & better peer information exchange. More land users involved.
- Different people have different values. Those values may compete.
- Attitude, open-mindedness, adaptability are important. The importance of new arrivals and fresh ideas.
- LEB heritage is important; we need sense in common rather than common sense.

Social capital

- Importance of community groups to support landholders and vice versa. Land holders to support community groups so they can continue.
- Value of supporting community groups as vehicles of change.
- The value of funding being made available through community groups.
- Viable income generating activity and sense of purpose. People are contented if they have these.

Beyond individual land use interests

- Balancing multiple land use in the LEB is important.
- Multi-criteria analysis model needed; cultural, environmental, economic, social.
- Unified effort needed by all to look after the environment. It is the responsibility of each and every one of us.
- Variability over a very large basin. It is difficult to generalise across basin.
- There is a wide range of land uses beyond grazing. Need to recognize those other uses.
- Restrictions by regulations; how does this stop what we try to achieve (eg local authority rules).
- Society at large does not appear to be prepared to pay what it will take to look after our resources.

Specific issues

- Buffel grass – sometimes its value is questioned
- Careful of words that start with 'B' (Buffel grass, Biodiversity). People respond negatively to certain words which are emotive for them.
- Availability of appropriate grass seed types.

'PEOPLE' - What have we learnt about the people, communities and economies of the Basin, and what does this mean for us?

PLENARY FACILITATED DISCUSSION: Gathering threads—Critical points and issues from the presentations on PEOPLE

This list is transcribed from the notes recorded by scribes on butcher's paper during the second plenary discussion of the conference, on Friday morning 8th September 2006. Following transcription, items were grouped according to similarity or common themes, and italicised sub-headings have been suggested.

Question for reflection: *What have we learnt about the people, communities and economies of the Lake Eyre Basin and what does this mean for managing the people issues?*

Diversity of people

- Mixed backgrounds, ages, good commitment & strong sense of values (often misunderstood).
- Key value of inclusiveness in LEB process.
- Recognize, accommodate and harness the full extent of diversity.
- Different values – need to be understood and included. Common themes need to be identified.
- Benefits of exchange of information & collective data.
- There is a variety of different people in LEB, all doing constructive good work, contributing to long-term change.

Supporting human capital

- Attracting and retaining labour into pastoral industry (ie mining, etc).
- Many young people want to work in remote areas but the support for them is not there. For example:
 - unreal expectations; lots of travel, long and frequent commuting to staff meetings.
 - support; some policies don't work, local circumstances change (young women not allowed to live remote without other staff.)
- Lack of sharing of wealth & of resource support. The costs and value of the support needed is underestimated.
- Need higher value investment in the human resource available in the basin. People on the ground have a major contribution to make.
- Applaud the success stories to inspire the sceptics and outsiders.

Relevant research

- Sharing, communicating, innovation, and risk-taking are all critical.
- We need to emphasise the development in R&D. Development needs \$\$'s invested so that research is utilized effectively.

Community-government interactions

- Governments are often a hindrance, not a help. Need to get policy makers to hear the real story. We need to get the true message across.
- Legislative framework needs to accommodate multiple land use better.
- Apply “KISS” to focus LEB Ag. Investment plan across 5 governments & industries of LEB.
- Community fabric wearing thin. Eg community Landcare group in NT wants to act, but funding schemes focus on warm fuzzy priorities instead of what they already know needs to be done.
- Need sub-regional groups within big catchments (Help understanding from top to bottom of catchments).
- Current support is mainly environmental agencies. Other non-obvious agencies need to be supportive too.

‘POSSIBILITIES’ - What issues face us for the future of the Lake Eyre Basin and the LEB Agreement, and how will we deal with them?

SMALL GROUP DISCUSSIONS: Key issues for the future of the LEB

This list is transcribed from the back pages of conference attendees’ work books, handed in to the conference organisers after the conference. It is a record of the ideas agreed upon by attendees within small groups of three. Following transcription, items were grouped according to similarity or common themes, and italicised sub-headings have been suggested.

Question for reflection: What are the most critical issues facing the future of the Lake Eyre Basin and the LEB Agreement, and how will we deal with them?

Who should be involved?

- Incorporating the Regional Bodies in the Agreement. What is their role with respect to CAC and LEBMF?
- Need to ensure integration with Regional Bodies.
- Combine wide mix of groups. Utilise regional groups better.
- Use LEB Agreement to capture regional benefits.
- LEB Agreement and CAC and Science Group to be a source of comment and advice to ensure cross-border co-ordination of NRM groups.
- Clear roles, responsibilities and governance framework – aligns with but differentiated from Federal, State, Territory jurisdictions. LEB Agreement to be strengthened and valued by all stakeholders.
- Basin wide co-ordinated/integrated approaches for Basin-wide NRM issues .ie a “federal” system.
- There is a feeling that the Agreement does not adequately represent the diversity of social, environmental, and economic values of the LEB.
- NRM group engagement – policy and admin with/by LEB CAC. This overarching could be very powerful – politically, funding, on-ground, engaging all.
- Need to actively pursue a long term strategic vision at all levels of government & community to make the resources in LEB sustainable.

- Interstate co-ordination for all aspects of LEB.
- Whole of catchment engagement for future investment.
- Monitor the pulse, not the toenails [a reference to one speaker's point about monitoring real vital signs not superficial symptoms].

Resourcing ideas

- Get some of the dollars coming from or passing through to come back.
- Portion of mining royalties being invested in the Region that is providing resources.
- Ensure some of the wealth generated by resource industries (eg mining) is kept in the LEB – a levy?
- Some royalties back to the Basin from which they were derived.
- Dollars from mining boom to be retained and used in the area for NRM activities.
- Mining royalties to be invested back into the region.
- Development of a user-pays system to retain more of the benefits that other sources take away.
- User pays beneficiaries for those outside the Basin using resources within the Basin.
- Money to be channelled into supporting a viable natural ecosystem and communities.
- Long-term funding/support for the LEB to support and build the passion.
- “Royalties’ from users of the Basin’s resources.
- Tax revenue from LEB; ie a good % to be returned to manage & resource the implementation of social and environmental policies.
- Some royalties directed directly into LEB from whence they are taking the resources.

Indigenous heritage

- Clearer understanding of Aboriginal Cultural Act and other relevant legislation e.g. through Aboriginal document that came out of the Aboriginal Forum.
- Recognition of aboriginal interests (cultural).

Maintaining community-government links

- Maintain viable community capacity to be sustainable. Clear pathways and connections to high levels of Government.
- Keep community talking to Ministers
- Community ownership vital – work the passion. Support for communities is vital.
- Better communication – no blame

Underpinning priorities

- Balanced approach to ecological and industry to sustainable management of Basin with regard to community and government values.
- Ecological functioning of the system to be the highest priority.

PLENARY FACILITATED DISCUSSION: Key issues for the future of the LEB

This list is transcribed from the notes recorded by scribes on butcher's paper during the third plenary discussion of the conference, on Friday afternoon 8th September 2006. Following transcription, items have been grouped according to similarity or common themes, and italicised sub-headings suggested.

Question for reflection: What are the most critical issues facing the future of the Lake Eyre Basin and the LEB Agreement, and how will we deal with them?

Looking strategically to the future

- Maintaining the human resources to manage climate and invasive species changes.
- Prepare for global markets and connections whilst being able to think and act locally (Eg: global marketing but local fuel and energy self-sufficiency).
- Reading the warning signsWhat are they?

Resourcing

- Long term funding (> 5 yrs) to support the passion.

Effective stakeholder engagement

- Continuity of engagement, (including with those outside the basin).
- How to engage community – capacity and commitment.
- Promote pastoral industry more.
- Combining wide mix of groups.
- Too little engagement from mining and tourism industries (EG: SA uranium explorers, Geodynamics, Tourism) which will bring better government engagement and \$ opportunities, like carbon sequestration.
- Opportunity for much greater integration between Indigenous and non-indigenous people and values.

Maintaining the profile

- Keeping the political pressure and focus on LEB (instead of on coastal areas).
- All Ministers must be well-briefed on outcomes of this conference (Via CAC and passion?)
- Communications with people – talk, contact, effort, resources.

Institutional arrangements

- Institutional arrangements – continue but don't duplicate.
- Continuity of CAC/SAP processes: \$ funding continuation, continuation of current arrangements, value of people to be recognised.
- What possible outcomes from LEB agreement?

PLENARY FACILITATED DISCUSSION: Key issues for the future of the LEB Agreement

This list is transcribed from the notes recorded by scribes on butcher's paper during the fourth and final plenary discussion of the conference, on Friday afternoon 8th September 2006. Following transcription, items were grouped according to similarity or common themes, and italicised sub-headings have been suggested.

Question for reflection: Given what you feel are the most pressing challenges facing the Basin, what are the most important issues that should be encompassed in the review of the Agreement?

Institutional arrangements

- Incorporating the Regional Bodies in the Agreement.
- Utilise LEB agreement as a structure to gain more regional benefit from the economies in the basin (eg: mining wealth to remain in LEB).
- LEBMF take responsibility for co-ordinating regional NRM among Boards – a more formal role for the LEBMF in this.
- More robust institutional structures with long life connected to high levels of Government.
- Need clear roles/responsibilities written in agreement, especially on cross-border activities.

Resourcing community engagement

- Maintain viable community capacity to be sustainable in the basin, to look after and manage the LEB.
- Engagement and involvement of all stakeholders – all voices need to be heard.
- Ensure landholders and communities must be part of the LEB consultancy. Eg engage reps of Aboriginal/pastoral/mining, etc as 'co-consultants'.
- Clearer understanding of Aboriginal cultural issues, especially cultural site protection.
- Establish a user-pays system for beneficiaries outside the Basin (tourism, mining) to support the natural resources in the Basin.

Community/researcher needs

- Long-term commitment, whole catchment approach, & keep community talking.
- Find ways of monitoring pulse of Basin, not toenails.
- Keep the ecological functioning of the whole basin as a priority.

**CLOSING COMMENTS
(ANGUS EMMOTT)**

CLOSING COMMENTS — 2006 LAKE EYRE BASIN CONFERENCE

A. Emmott

Chair, Lake Eyre Basin Community Advisory Committee
'Noonbah Station', LONGREACH, QLD 4730
Email: akemmott@bigpond.com

In closing this year's biennial Lake Eyre Basin Conference, I would like to sincerely thank the following people:

- Sarah Nicolson, our conference organiser, who has done a great job with the logistics and hard work of organising the conference, in particular in helping to make it possible to jointly convene the conference with the Australian Rangeland Society Conference;
- the Conference steering committee, who have been working hard for the last 15 to 18 months to make the conference happen;
- The Chaffey Theatre and all their staff, who have done an extremely professional job in looking after us for the week, and to whom we are very grateful for an excellent venue;
- all the presenters, who gave us a huge range of perspectives with an exceptionally high standard of professional presentation;
- our discussion facilitator, Ian Plowman, whose planning, preparation and skills have allowed us to get the best out of the input and ideas generated by all the conference attendees;
- the Australian Government, in particular the hard-working Secretariat for the LEB Ministerial Forum located within the Department of the Environment and Heritage;
- the Governments of South Australia, Queensland and the Northern Territory, who, together with the Australian Government, provide the funding for the LEB initiative, which includes this conference;
- BHP Billiton and Santos, who also generously provided sponsorship for the conference and above all, the attendees, without whom there would have been no conference.

KEY IDEAS EMERGING FROM THE CONFERENCE

In sifting through the conference presentations and discussions, a number of key ideas have emerged:

- the importance of **community involvement** in the Lake Eyre Basin process, especially the continued and improved involvement of Aboriginal people;
- the reality that **people and place are not separable**, that to deal with either, we must deal equally with both;
- the real progress that has been made in **improving our knowledge** of the Lake Eyre Basin, in particular the progress made with the LEB Rivers Assessment and the LEB Social and Economic study;
- the reaffirmation that the Lake Eyre Basin is truly **unique on a world scale**, brought home to us clearly by our two international speakers;
- the importance of creating an environment that **encourages people to stay** in the Basin; and
- the importance of both **leadership**, and a **diversity of leadership** in the Basin, and in the Lake Eyre Basin Agreement.

HIGHLIGHTS FOR THE LEB AGREEMENT REVIEW

Our facilitated discussions, led so capably by Ian Plowman, were structured throughout the conference to help draw out from all the presenters and participants the critical emerging issues and questions to be considered for the future of the Basin, in this year's review of the LEB Agreement. In closing the conference, I would therefore like to return to the five best practice preconditions for successful, cross-border river basin organisations proposed by John Scanlon in his talk on river basin organisations across the globe:

- the importance of developing and maintaining a locally relevant model
- the need for a stable institutional, legal and funding framework
- the importance of a strong, agreed knowledge base
- the need for integration across all natural resource issues
- the essential role of strong community awareness and participation

If the LEB Agreement can continue to be built and strengthened upon these foundations, then we have a good chance of working towards a sustainable future for the Lake Eyre Basin.

Thank you all for your participation in the 2006 biennial Lake Eyre Basin Conference, and for your continued interest in the Basin and your contributions to the LEB Agreement. I look forward to seeing you again at the next conference.

LAKE EYRE BASIN

3RD Biennial Conference

Renmark, Sept 2006

Thanks

- Sarah Nicolson
- DEH
- Chaffey Theatre and staff
- State/NT Governments
- Conference Steering committee
- BHP Billiton and Santos
- and all of you

LEB Conference - Key ideas

- Community involvement, especially Aboriginal people
- People and place are not separable
- Real progress with LEB knowledge:
 - Rivers Assessment
 - Social and Economic study
- The basin is unique on a world scale
- Creating an environment that encourages people to stay in the Basin
- Importance of leadership and diversity of leadership

Highlights for the LEB Agreement Review

- John Scanlon's five best practice preconditions:
 - Locally relevant model
 - Stable institutional, legal and funding framework
 - Strong, agreed knowledge base
 - Integration across all natural resource issues
 - Strong community awareness and participation



DELEGATE LIST

LAKE EYRE BASIN CONFERENCE
7-8 SEPTEMBER 2006, RENMARK SOUTH AUSTRALIA

DELEGATE LIST

Mr Brett Abbott
CSIRO Sustainable Ecosystems
Davies Laboratory
University Drive QLD 4814
(07) 4753 8513
brett.abbott@csiro.au

Ms Robyn Adams
Desert Uplands Committee Member
"Stratford"
Mail Service 725
BLACKALL QLD 4472
(07) 4651 0939
0419 179 974
Stratford01@bigpond.com

Mr David Akers
Environmental Protection Agency
PO Box 202
LONGREACH QLD 4730
(07) 4652 7301
david.akers@epa.qld.gov.au

Mr Peter Alexander
Department for Environment & Heritage
GPO Box 1047
ADELAIDE SA 5001
(08) 8222 9451
0417 010 359
alexander.peter@saugov.sa.gov.au

Dr Martin Andrew
URS Australia
25 North Tce
HACKNEY SA 5069
(08) 8366 1037
0414 500 988
martin_andrew@urscorp.com

Mr Geoff Axford
DEH
PO Box 78
PT AUGUSTA SA 5700
(08) 8648 5366
0427 604 079
axford.geoff@saugov.sa.gov.au

Ms Vanessa Bailey
Environmental Protection Agency
PO Box 202
LONGREACH QLD 4730
(07) 4652 7310
vanessa.bailey@epa.qld.gov.au

Mr Gary Bastin
CSIRO
PO Box 2111
ALICE SPRINGS NT 0871
(08) 8950 7137
gary.bastin@csiro.au

Mr Don Blesing
Blesing Strategy
23 Kennaway Street
TUSMORE SA 5065
(08) 8332 2077
0408 859 320
dblesing@bigpond.com.au

Mrs Adrienne Bode
Towerhill & Torrens Creddk Catchment
Landcare Group Inc
"Woura Park"
Torrens Creek QLD 4816
(07) 4741 7245
0427 417 350
woura@bigpond.com

LAKE EYRE BASIN CONFERENCE
7-8 SEPTEMBER 2006, RENMARK SOUTH AUSTRALIA

DELEGATE LIST

Ms Lynda Braddick
Murdoch University
6B Spey Place
FERNDALE WA 6148
(08) 9258 3556
0421 196 387
lyndanz@hotmail.com

Mr Satish Choy
Department of Natural Resources, Mines
& Water
PO Box 63
MACKAY QLD 4740
0407 125 898
satish.chow@nrm.qld.gov.au

Mr Lynn Brake
GAB Coordinating Committee
po Box 149
BRIGHTON SA 5048
0419 036 427
lkbrake@ozemail.com.au

Mr Mike Chuk
Department Natural Resources, Mines &
Water
PO Box 210
LONGREACH QLD 4730
(07) 4650 1915
0427 643 628
mike.chuk@nrm.qld.gov

Ms June Brundell
Department Natural Resources, Mines &
Water
PO Box 19
EMERALD QLD 4720
(07) 4987 9321
june.brundell@nrm.qld.gov.au

Ms Jenny Cleary
Rural Solutions
PO Box 357
PT AUGUSTA SA 5700
(08) 8648 5172
0429 699 387
cleary.jenny@saugov.sa.gov.au

Dr Donald Burnside
URS Australia
Level 3, 20 Terrace Rd
EAST PERTH WA 6004
(08) 9221 1630
don_burnside@urscorp.com

Mr Craig Clifton
Sinclair Knight Merz
PO Box 952
BENDIGO VIC 3552
(03) 5444 1861
0418 381 259
cclifton@skm.com.au

Mrs Rebecca Cadzow
Mt Riddock Pastoral Co.
PMB 43
ALICE SPRINGS NT 872
(08) 8956 9963
0418 817 806
rebeccacadzow@bigpond.com

Mr David Coates
CSIRO Davies Laboratory
PMB PO
AITKENVALE QLD 4814
(07) 4753 8545
david.coates@csiro.au

Mr Greg Campbell
S. Kidman & Co Ltd
183 Archer Street
NORTH ADELAIDE SA 5006
(08) 8334 7100
gcampbell@kidman.com.au

LAKE EYRE BASIN CONFERENCE
7-8 SEPTEMBER 2006, RENMARK SOUTH AUSTRALIA

DELEGATE LIST

Mr George Cooley
LEB CAC
PO Box 300
COOBER PEDY SA 5723
(08) 8627 3758
0437 293 337

Dr Clifford Dahm
Dept Biology
University New Mexico
Albuquerque
NM USA 87131
+1-505-277-2850
cdahm@servilleta.unm.edu

Mr Reg Dodd
Marree Arabunna People's Committee
c/- PO
MARREE SA 5733
(08) 8675 8351
mapc@deadlymob.org.au

Ms Joslin Eatts
LEB CAC
PO Box 426
WINTON QLD 4735
(07) 4657 1261

Mr Angus Emmott
Chair, LEB CAC
"Noonbah"
LONGREACH QLD 4730
(07) 4658 5953
0428 585 953
aremmott@bigpond.com

Mr Daniel Eyles
Lower Murray Darling Catchment
Management Authority
PO Box 363
BURONGA NSW 2739
(03) 5021 9460
0429 981 331
daniel.eyles@cma.nsw.gov.au

Dr Rod Ferdinands
Desert Channels QLD
PO Box 601
LONGREACH QLD 4730
(07) 4658 0600
0427 004 074
rod.ferdinands@dcq.org.au

Ms Jillian Fisher
CLMA
PO Box 2534
ALICE SPRINGS NT 0870
(08) 8953 4230
0419 702 608
cagsp@clma.com.au

Mr Jim Forwood
LEB CAC
GPO Box 1547
DARWIN NT 801
(08) 8981 1508
0408 834 156
forwood@octa4.net.au

Mr Michael Gilby
Lower Murray Darling Catchment
Management Authority
PO Box 363
BURONGA NSW 2739
(03) 5021 9460
0428 971 646
michael.gilby@cma.nsw.gov.au

Mr Simon Goodhand
Department for Environment & Heritage
PO Box 529
PALMERSTON NT 0831
(08) 8999 4573
0401 110 136
simon.goodhand@nt.gov.au

LAKE EYRE BASIN CONFERENCE
7-8 SEPTEMBER 2006, RENMARK SOUTH AUSTRALIA

DELEGATE LIST

Miss Georgina Green
Nature Conservation Society of SA
120 Wakefield Street
ADELAIDE SA 5000
(08) 8223 1693
0400 045 247
georgina.green@ncssa.asn.au

Ms Beth Greenfield
Rural Solutions
PO Box 357
PT AUGUSTA SA 5700
(08) 8648 5160
0427 000 817
greenfield.beth@saugov.sa.gov.au

Ms Krista Hancy
Department for Environment & Heritage
GPO box 787
CANBERRA ACT 2601
(02) 6274 1084
0405 342 649
krista.hancy@deh.gov.au

Mr Ken Harrison
Western Catchment Management
Authority
PO Box 1840
DUBBO NSW 2830
(02) 6883 3064
0428 289 204
ken.harrison@cma.nsw.gov.au

Mrs Sharon Hocking
Desert Knowledge Australia
ALICE SPRINGS NT
(08) 8087 2277
0407 667 798
shocking@iinet.net.au

Mrs Margaret House
Desert Uplands Committee
Fortuna Station
ARAMAC QLD 4726
(07) 4651 0512
fortunahouse@bigpond.com

Dr Carolyn Ireland
SAAL NRM Board
13 Woodland Close
ALDGATE SA 5154
(08) 8370 9207
0400 309 207
cireland@irmpl.com.au

Ms Colleen James
Desert Channels QLD
PO Box 601
LONGREACH QLD 4730
(07) 4652 7826
0428 580 998
colleen.james@dcq.org.au

Mr Tom Jenkin
Aboriginal Legal Rights Movement,
Native Title Unit
Level 4, 345 King William St
ADELAIDE SA 5000
(08) 8110 2829
tomj@nativetitle.sa.org

Mr Andrew Johnson
Department Water, Land, and
Biodiversity Conservation
GPO box 2834
ADELAIDE SA 5001
(08) 8463 6925
0401 122 241
johnson.andrew@saugov.sa.gov.au

LAKE EYRE BASIN CONFERENCE
7-8 SEPTEMBER 2006, RENMARK SOUTH AUSTRALIA

DELEGATE LIST

Ms Ania Karzek
Department Water, Land, and
Biodiversity Conservation
GPO Box 2834
ADELAIDE SA 5001
(08) 8463 6941
0427 602 210
karzek.ania@saugov.sa.gov.au

Ms Linda Keane
Department Health & Community
Services
PO box 721
ALICE SPRINGS NT 0871
(08) 8951 7800
0401 114 143
linda.keane@nt.gov.au

Ms Suzanne Kearins
Australian Agricultural Company
PMB 5
MT ISA QLD 4825
(08) 8964 4681
skearins@aaco.com.au

Mr Nigel Kelly
Department of Natural Resources, Mines
& Water
PO Box 63
MACKAY QLD 4740
(07) 4938 4626
0407 770 062
nigel.kelly@nrm.qld.gov.au

Mr Richard Kingsford
LEB CAC, University of NSW
KENSINGTON NSW 2052
(02) 9385 3442
richard.kingsford@unsw.edu.au

Ms Silva Larson
CSIRO
Davies Laboratory
PMB Aitkenvale
QLD 4814
(07) 4753 8589
silva.larson@csiro.au

Ms Erin Lawless
University of Queensland
55 Boobyjan Rd
GOOMERI QLD 4601
(07) 4168 6262
erinlawless@burnett.net.au

Dr Rob Lesslie
Bureau of Rural Sciences
GPO Box 858
CANBERRA ACT 2601
(02) 6274 1311
0408 851 939
rob.lesslie@brs.gov.au

Mr Barry Lincoln
Alinytjara Wilurara NRM Board
321 Goodwood Rd
KINGS PARK SA 5034
(08) 8357 3880
0428 260 027
clc@aboriginalnrm.com.au

Mr John Lumb
Department of Environment & Heritage
PO Box 787
CANBERRA ACT 2601
(02) 6274 1036
john.lumb@deh.gov.au

LAKE EYRE BASIN CONFERENCE
7-8 SEPTEMBER 2006, RENMARK SOUTH AUSTRALIA

DELEGATE LIST

Mr John Maconochie
Pastoral Management
DWLBC
GPO Box 2834
ADELAIDE SA 5001
(08) 8303 9753
0408 405 420
maconochie.john@saugov.sa.gov.au

Mr Lew Markey
Department Primary Industries &
Fisheries
PO Box 519
LONGREACH QLD 4730
(07) 4654 4460
0429 053 045
lew.markey@dpi.qld.gov.au

Mrs Therese McElligott
Barkly Landcare & Conservation Assoc
Inc
PO Box 36
TENNANT CREEK NT 0861
(08) 8964 4722
0428 485 566
barklylandcare@switch.com.au

Mr Bill McIntosh
Gum Creek Station
PO Box 2114
BLINMAN SA 5730
(08) 8648 4883

Ms Janet McIntyre
LEB CAC
8/100 Macquarie Street
ST LUCIA QLD 4067
(07) 3870 1787
0428 573 097
kiriwina@bigpond.com

Mr Geoff Mills
SAAL NRM Board
PO Box 181
WHYALLA SA 5600
(08) 8646 8035
wildcurry@ozemail.com.au

Mr Jeff Mills
Fitzroy River & Coastal Catchments
170 Redbank Rd
MORINISH QLD 4702
(07) 4937 3555
0407 373 539
millsjn@bigpond.com

Mr Chris Mitchell
Parks & Wildlife Service
PO Box 64
BELLBOWRIE QLD 4070
(07) 3202 0278
0429 100 965
chris.mitchell@epa.qld.gov.au

Ms Amanda Morvell
Department of Environment & Heritage
GPO Box 787
CANBERRA ACT 2601
(02) 6274 2140
0404 091 035
amanda.morvell@deh.gov.au

Prof John Mott
University of Queensland
ST LUCIA QLD 4072
(07) 3365 1670
0438 652 115
john.mott@research.uq.edu.au

LAKE EYRE BASIN CONFERENCE
7-8 SEPTEMBER 2006, RENMARK SOUTH AUSTRALIA

DELEGATE LIST

Mr Vol Norris
Lake Eyre Basin Community Advisory
Committee
PO Box 519
LONGREACH QLD 4730
(07) 4658 4435
0427 440 799
vol.norris@deh.gov.au

Dr Ben Norton
Curtin University
PMB 22
KALGOORLIE WA 6433
(08) 9088 6043
0407 985 938
b.norton@cmae.curtin.edu.au

Mr David Oag
Pastoral Management
DWLBC
PO Box 78
PT AUGUSTA SA 5700
(08) 8648 5174
oag.david@saugov.sa.gov.au

Ms Sharon Oldfield
LEBCAC
24 Argyll Walk
BELLEVUE HEIGHTS SA 5050
(08) 8277 8884
0407 792 227
cowarie@bigpond.com

Mr Joe Pappalardo
Department of Natural Resources, Mines
& Water
PO Box 63
MACKAY QLD 4740
(07) 4967 0770
0418 882 569
joe.pappalardo@nrm.qld.gov.au

Mr John Pitt
Rural Solutions
PO Box 822
CLARE SA 5453
(08) 8842 6261
0417 804 071
pitt.john@saugov.sa.gov.au

Dr Ian Plowman
Ian Plowman Pty Ltd
30 Duke Street
TOOWONG QLD 4066
(07) 3870 2231
0417 705 489
ian@plowman.com.au

Mr Chris Raymond
Department Water, Land, and
Biodiversity Conservation
Prescott Bldg, Waite Road
URRBRAE SA 5064
(08) 8303 9700

Ms Michelle Rodrigo
Natural Resource Management Board
PO Box 1120
ALICE SPRINGS NT 871
(08) 8951 9255
0427 611 972
michelle.rodrido@nt.gov.au

Ms Kirrilie Rowe
SAAL NRM Board
GPO Box 2834
ADELAIDE SA 5001
(08) 8204 9131
0437 795 878
rowe.kirrilie@saugov.sa.gov.au

LAKE EYRE BASIN CONFERENCE
7-8 SEPTEMBER 2006, RENMARK SOUTH AUSTRALIA

DELEGATE LIST

Ms Sonia Sallur
Department Primary Industries &
Fisheries
PO box 976
CHARTERS TOWERS QLD 4820
(07) 4754 6118
0427 159 313
sonia.sallur@dpi.qld.gov.au

Mr John Scanlon
Murray Darling Basin Commission
606/7 Rockwall Cres
POTTS POINT NSW 2011
(02) 9357 5305
0405 925 907
john.scan@gmail.com

Mr Joc Schmiechen
LEB CAC, Charles Darwin University
48 Victoria St
FORRESTVILLE SA 5035
0409 200 450
schmiech@ozemail.com.au

Mr Glen Scholz
Department Water, Land, and
Biodiversity Conservation
Level 11, 25 Grenfell Street
ADLEAIDE SA 5000
(08) 8463 6993
scholz.glen@saugov.sa.gov.au

Mr Bill Semple
PO Box 1668
ORANGE NSW 2800
(02) 6361 4799
b.semple@bigpond.net.au

Dr Mark Stafford Smith
CSIRO Sustainable Ecosystems
PO Box 284
CANBERRA ACT 2606
(02) 6249 8903
0408 852 082
mark.staffordsmith@csiro.au

Mr Jeff Stringer
Pastoral Management
9 Mackay Street
PT AUGUSTA SA 5700
(08) 8648 5795
stringer.jeffrey@saugov.sa.gov.au

Mr John Targett
Department Primary Industries &
Fisheries
PO Box 519
LONGREACH QLD 4730
(07) 4658 4400
0427 159 313
john.targett@dpi.qld.gov.au

Jeremy Taylor
LEB CAC, QNI BHP Billiton
PMB 5
TOWNSVILLE QLD 4810
(07) 4720 6128
jeremy.taylor@bhpbilliton.com

Ms Joy Taylor
Desert Knowledge Australia
PO Box 2114
ALICE SPRINGS NT 871
(08) 8951 5578
0411 375 272
joy.taylor@nt.gov.au

LAKE EYRE BASIN CONFERENCE
7-8 SEPTEMBER 2006, RENMARK SOUTH AUSTRALIA

DELEGATE LIST

Mrs Jadine Temby
Lower Murray Darling Catchment
Management Authority
PO Box 363
BURONGA NSW 2739
(03) 5021 9460
0428 664 845
jade.temby@cma.nsw.gov.au

Ms Merri Tohill
Rural Solutions
PO Box 357
PT AUGUSTA SA 5700
(08) 8648 5371
0428 104 867
tohill.meredith@saugov.sa.gov.au

Mr Rory Treweeke
Western Catchment Management
Authority
PO Box 1212
LIGHTNING RIDGE NSW 2834
(02) 6829 0301
0428 634 204
treweeker@gobushmail.com.au

Mr Chris Turner
Pastoral Management
DWLBC
GPO Box 2834
ADELAIDE SA 5001
(08) 8303 9755
turner.chris@saugov.sa.gov.au

Prof Michael Tyler
University of Adelaide
PO Box 334
BELAIR SA 5052
(08) 8278 2734
michael.tyler@adelaide.edu.au

Mr Paul Wainwright
Department for Environment & Heritage
GPO Box 1047
ADELAIDE SA 5001
(08) 8124 4740
0423 030 527
wainwright.paul@saugov.sa.gov.au

Ms Elizabeth Wallis
Rangelands Australia
c/- SNRSM
University of Queensland
GATTON QLD 4343
(07) 5460 1660
0419 781 549

Mrs Annabel Walsh
Murray Darling Rangeland Conservancy
Moorna Station NSW 2648
(03) 5028 2250
0427 282 262
annabelwalsh@bigpond.com

Dr Dionne Walsh
CLMA
PO Box 2534
ALICE SPRINGS NT 0871
(08) 8953 4230
ems@clma.com.au

Ms Janet Walton
Greening Australia SA Rangelands
PO Box 2227
PT AUGUSTA SA 5700
(08) 8648 5978
0428 813 075
rangelands@greeningsa.org.au

LAKE EYRE BASIN CONFERENCE
7-8 SEPTEMBER 2006, RENMARK SOUTH AUSTRALIA

DELEGATE LIST

Mr Michael Whiting
CSIRO
20 Duggan Drive
Alligator Creek QLD 4816
(07) 4778 8471
0448 538 526
mwhito@bigpond.net.au

Mrs Sharryl Whiting
20 Duggan Drive
Alligator Creek QLD 4816
(07) 4778 8471
mwhito@bigpond.net.au

Mr Mateusz Wolnicki
University of Western Sydney
PO Box 142
CUNNAMULLA QLD 4490
(07) 4655 0354
0438 698 578
paroo@gmx.net

Ms Rachael Young
SAAL NRM Board
PO Box 2430
PT AUGUSTA SA 5700
(08) 8648 5985
0425 284 573
rachael.young@saalnrm.sa.gov.au