



Environmental Action Plan Annual Update

10/2014



ballina
shire council

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Environmental Action Plan

Table of Contents

WELCOME TO THE ENVIRONMENTAL ACTION PLAN	2
WHAT IS THE PLAN?	2
DEVELOPING THE PLAN	3
COMMUNITY STRATEGIC OBJECTIVES	4
A DYNAMIC & EVOLVING DOCUMENT	5
A working document	
Ballina Environmental Action (BEA)	
How can I contribute?	
ENVIRONMENTAL ACHIEVEMENTS	6
Heading in the right direction	
DIRECTIONS	
Connected Community	7
Prosperous Economy	13
Healthy Environment	14
Engaged Leadership	28
OTHER IDEAS FOR ENVIRONMENTAL ACTION	31
APPENDIX 1:VEGETATION MANAGEMENT PLANS FOR COUNCIL RESERVES	35
APPENDIX 2:DATABASE OF COMPLETE ACTIONS	36

Cover image: Ballina Waste Water Treatment Plant now home to the largest bank of solar panels in regional NSW. These panels will be switched on December 2014.

WELCOME TO THE ENVIRONMENTAL ACTION PLAN

Welcome to Ballina Shire Council's Environmental Action Plan. The Environmental Action Plan (EAP) documents actions that aim to improve our local environment through improving Council's own operations and activities.

The aim of the EAP is to provide guidance to the elected council and the community on the types of actions that are taking place within the organisation. Whilst Council has always been active in improving environmental outcomes across its areas of responsibility, the EAP documented these actions for the first time in 2011. This is the third annual report to the community.

The EAP is a working document that is reviewed on an ongoing basis. This process provides an opportunity for council staff, Councillors and community to regularly contribute to the plan by providing good ideas aimed at increasing the environmental sustainability of our shire.

WHAT IS THE ENVIRONMENTAL ACTION PLAN?

The EAP informs Council's delivery program and operational plans that are required by the Department of Local Government as part of the Integrated Planning and Reporting Framework. Each of these programs and plans serve to inform the community about how Council is moving toward its commitments in the Ballina Shire Council Community Strategic Plan (CSP).

The EAP outlines Council's own commitments in meeting the environmental components of the CSP and identifies the principal activities that Council is undertaking to meet those objectives. It documents planned improvements in Council's practices that will improve the environmental sustainability of the organisation. Although these actions are focused on improving environmental outcomes, many actions also have economic or social benefits.

This plan aims to improve the planning and priority setting for the Council as a whole organisation in regard to its various environmental initiatives. This action plan will assist in the review of resources available to develop and implement environmental programs, ensure we are able to measure our performance in delivering against the plan, and identify areas which would benefit from a more proactive development of programs and initiatives.

DEVELOPING THE ENVIRONMENTAL ACTION PLAN

This Environmental Action Plan identifies actions that seek to achieve better environmental outcomes in many of Council's activities and operations. The development of the plan has required input from Councillors and from staff across many of Council's principal activity areas including:

- Open Space and Reserves
- Engineering Works
- Depot, Assets and Systems
- Commercial Property
- Waste Management
- Water and Wastewater
- Governance and Finance
- Human Resources
- Risk Management
- Community Facilities and Services
- Building Services
- Development Services
- Environment and Public Health
- Communication and Tourism
- Strategic Planning
- Airport
- Information Services

This EAP collates the array of environmental initiatives that are undertaken by Council. This plan also collates ideas for future action to ensure that these are not lost and can be reviewed once resources become available.

Each action in the plan is listed alongside the benefits of the action and how progress towards the action will be measured. The action plan is largely operational in nature and has been designed to ensure that actions can be viewed and sorted against a number of different criteria such as the CSP outcome it relates to, possible funding sources or progress status. Each of the actions has also been assigned a management portfolio within Council that has the responsibility of regularly reporting the progress of these actions through internal reporting mechanisms.

The EAP is reviewed annually for progress of actions as well as additional projects. Regular review of this plan provides an internal process that seeks to encapsulate all of these activities and ideas in a centralised and ongoing way.

COMMUNITY STRATEGIC PLAN OBJECTIVES

Our Community...Our Future is Ballina Shire Council's Community Strategic Plan and sits above all other council plans and policies in the planning hierarchy. The CSP identifies the community's main priorities and aspirations for the future to promote a positive lifestyle and improve the amenity for our residents and visitors. Council will use this document to guide and inform its decision making and planning for at least the next ten years.

While council has a custodial role in initiating, preparing and maintaining the CSP on behalf of the Ballina Shire, it is not wholly responsible for its implementation. Other partners, such as State government agencies and community groups may also be engaged in delivering the long term objectives of the Plan.

The EAP documents those activities for which Council is responsible, and whilst projects are in progress, many will also be outlined in the combined Delivery Program and Operational Plan document that supports the CSP.

The Delivery Program outlines the Strategies to achieve the Directions and Outcomes of the CSP. The Operational Plan schedules Council's Actions over the next four years to achieve the Strategies in the Delivery Program. For ease of reference and reporting the Delivery Program and Operational Plan have been combined into one document. The implementation of the Delivery Program and Operational Plan (combined document) is monitored quarterly by performance indicators and measurements to ensure actions are completed on time and within allocated budgets. The review of the Delivery Program and Operational Plan (combined document) is undertaken annually to ensure that Strategies and Actions are meeting Directions and Outcomes outlined in the CSP.

All Council's actions relate directly to the outcomes of the CSP. These outcomes have been outlined below.

- We feel safe
- We feel connected to the community
- There are services, facilities and transport options that suit our needs
- We attract new business and visitors
- Business can grow and diversify
- We can work close to home
- We understand the environment
- We use our resources wisely
- Our built environment blends with the natural environment
- Our Council works with the community
- Council's finances and assets are well managed
- We are all valued citizens.

The EAP works towards achieving Ballina Shire Council's commitments to the environmental components of the CSP. The EAP table of activities mirrors the table template used in the combined Delivery Program and Operational Plan document.

A DYNAMIC & EVOLVING DOCUMENT

A WORKING DOCUMENT

As a working document the EAP also provides a database for the good ideas that are provided by Council staff and the community. It is intended that the EAP process will become embedded into the organisation and that individual program managers will access and use the plan as a compiled reference source as they monitor grant and project opportunities. Internal procedures will also ensure that the plan is reviewed quarterly and progress is reported to the elected Council and the community.

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Community members wanting to contribute can email their ideas to greenbea@ballina.nsw.gov.au

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BALLINA ENVIRONMENTAL ACTION (BEA)



The **Green Bea** mascot assists in keeping the Ballina Shire community up to date on Council's environmental initiatives.

Look out for Bea buzzing about in various Council media, such as Council's Community Connect newsletter, the Ballina Shire Advocate and the Staff Matters newsletter.

HOW CAN I CONTRIBUTE?

The EAP is an evolving document and serves also as a central database of ideas for further actions. To date, the actions documented in this plan have primarily come from ideas provided by staff, management and the elected Council. The community is also encouraged to provide ideas for improving our shire's environmental sustainability. Although not every idea can or will be resourced, community ideas and input will help Council in considering which areas to focus on.

Community members wanting to contribute their ideas can do so by emailing greenbea@ballina.nsw.gov.au with the subject heading *Environmental Action Plan*.

ENVIRONMENTAL ACHIEVEMENTS



This section of the EAP outlines the environmental actions that Council implemented during the 2013/2014 financial year. For previous completed actions, please see Appendix 1

HEADING IN THE RIGHT DIRECTION

Council has developed the Delivery Program and Operational Plan (combined document) to achieve the Directions and Outcomes identified in our Community Strategic Plan. This section provides details of the major Delivery Program Strategies and Operational Plan Actions scheduled for the next four years.

Our success in achieving the actions identified for 2014/15 will be reported to Council on a quarterly basis. The section responsible, as per our organisational structure, for delivering these actions is also identified.

Many outcomes and actions are included in Council's Delivery Program and Operational Plan and can be directly cross-referenced within these documents.

Actions which are new, not included in the Delivery Program and Operational Plan (combined document) or referenced in another Council plan are shown in italics for ease of identification. Actions in italics may be included in future Delivery Program or indicate activities occurring which are implicitly included in a normal works program.

This update report is current to 1 December 2014.

Direction One: A Connected Community (CC)

CSP Priorities	The benefits will be...	Delivery Program Strategy	Measures/Target	2013/14 Report	Responsibility	Links to NSW 2021 Goals
		Operational Plan Activity				
OUTCOME CC1. WE FEEL SAFE						
CC1.2 Ensure adequate plans are in place for natural disasters and environmental changes	<i>The community is more aware of the plans in place and better prepared for change</i>	CC1.2.1 Deliver contemporary disaster and environmental plans				
		<i>Implement Council's Climate Action Strategy:-</i>		<i>See actions below.</i>	<i>All</i>	4.28
		Inclusion of sea level rise considerations in flood and hazard studies across the shire (ie Ballina Island, West Ballina, Lennox Head, Newrybar Swamp)	SLR consideration included	Council's policy is to include a 40cm SLR estimate for 2050 and a 90cm SLR estimate for 2100 as per 2009 NSW Sea Level Rise Policy Statement (reliant on the then Chief Scientist's report). This benchmark has been adopted both for the floodplain risk management and coastal zone management planning processes.	Civil Services	
	Arbovirus surveillance and mosquito monitoring undertaken during peak season	Safety alerts issued as appropriate	Surveillance program undertaken. Higher rainfall for much of the season meant that numbers were 'high' for much of the season, with one 'very high' catch in late April. There was one detection of Ross River Virus carrying mosquito in the shire.	Environmental and Public Health	2.11	
CC1.3 Monitor the built infrastructure and the services delivered to the community to ensure relevant standards are being met	<i>Higher levels of legislative compliance</i> <i>Lower risks of accidents and outbreaks of disease</i>	CC1.3.1 Improve asset management to minimise risk of failure and to maximise benefits delivered				
		Implement Pressure Leakage and Management Plan for remainder of shire (ie Ballina, Alstonville, Wollongbar, Wardell)	134 Megalitres potable water and associated costs per annum saved	PLMP construction contract awarded at a cost of \$1.3million. Will be complete this financial year.	Water and Wastewater	3.21
		Lennox Head dual reticulation operational	Megalitres potable water and associated costs saved	Awaiting 'Approval to Operate' from the Office of Water. Construction complete, due to be operational 2015.	Water and Wastewater	3.21

CSP Priorities	The benefits will be...	Delivery Program Strategy	Measures/Target	2013/14 Report	Responsibility	Links to NSW 2021 Goals
		Operational Plan Activity				
		Upgrade Ballina Sewage Treatment Plant for recycled water	Percentage re-use, water quality monitoring	Ballina Recycled Wastewater Treatment Plant construction almost complete. 300KW of solar panels have been installed at the WWTP.	Water and Wastewater	3.21
		Implement urban stormwater management plan	Actions implemented	Funding secured via State Government Estuary Management Program for first stage implementation of Northlakes WQIP, and drainage improvements at Lake Chickiba wetland.	Engineering Works, Development and Environmental and Public Health	4.22
		Promote existing carpool website for NR Carpool.	Social and economic drivers for users	<i>The Northern Rivers Carpool has now developed the NR carpool app for smart phones and tablets that allows users to add plans, search for matches and browse current people travelling to where they want to go, and get an instant calculation of travel costs and CO2 savings. The website has recently been redesigned to improve its functionality.</i>	Strategic Services (Ballina hosting NR Carpool during 2013 and 2014)	4.24
		Pollution reduction program for sewer overflows	Reduce sewer overflows from WWTP's	Works under construction – 70% complete now, will be completed by 30 June 2015.	Water and Wastewater	3.19
		Ongoing upgrade pump station assets	Reduce sewer overflows and incidents	10% of sewerage pumps were replaced this financial year (2013/14). This is standard practice to ensure infrastructure remains current and in good working order.	Water and Wastewater	3.19
CC1.3.2 Seek a high level of development compliance in our community						
		Update Contaminated Lands Register and Mapping Program	Maintain real time information for community safety and information	Underway. Register and associated workflows being framed up into Council's data management system.	Environmental and Public Health	2.11

CSP Priorities	The benefits will be...	Delivery Program Strategy	Measures/Target	2013/14 Report	Responsibility	Links to NSW 2021 Goals
		Operational Plan Activity				
CC1.3.3 Ensure food premises, public pools and potable water is safe for human use and consumption						
		Ensure all drinking water sites are monitored weekly	Drinking water sites monitored (Target 100% per week)	100% of drinking water sites monitored weekly in 2013/14 year.	Environmental and Public Health	2.11
		Ensure compliance with National Health & Medical Research Council drinking water standards	Non-compliance issues (Target = nil)	Six bacteria failures were experienced during 2013/14. All passed following flushing and retesting. This represents 99.2% compliance.	Environmental and Public Health	2.11
		Ensure all food premises are audited on a regular basis	Food premises audited (Target 100% per year)	All fixed food premises (263) on the register were inspected during the course of the 2013/14 financial year except one who could not be contacted. There are 84 market food stalls subject to inspection and of these 37 were able to be inspected. 62 warning letters were issued as a result of inspections, but only three improvement notices and 4 penalty notices. 22 food related complaints were received from the public, 17 of which were food safety related.	Environmental and Public Health	2.11
		Maintain an acceptable level of compliance with health regulations for all food premises	Food premises issued with Infringement Notices (Target <5%)	0.15% of inspected premises issued with infringement notices 2013/14.	Environmental and Public Health	2.11
OUTCOME CC2. WE FEEL CONNECTED TO THE COMMUNITY						
CC2.1 Encourage community interaction and	There are more people volunteering in	CC2.1.1 Encourage and foster community pride through volunteering initiatives				
		Acknowledge and support volunteers in <i>Landcare and Coastcare</i>	Actions taken to recognise volunteers	Continuation of first aid and Chemcert qualification training provided to volunteers.	Open Space and Reserves	4.24

CSP Priorities	The benefits will be...	Delivery Program Strategy	Measures/Target	2013/14 Report	Responsibility	Links to NSW 2021 Goals
		Operational Plan Activity				
volunteering	our community			Volunteers recognition morning tea and acknowledgement ceremony held. Ongoing provision of resources including fencing, mulch and plants.		
CC2.2 Create events and activities that promote interaction and education, as well as a sense of place	Increase in events, community participation and a sense of place	CC2.2.2 Grow and support the Northern Rivers Community Gallery				
		<i>Develop opportunities to explore environment through art and culture.</i>	<i>Initiatives implemented</i>	<i>Claypaver workshops to foster relationships between older people and their families, with a 'Ballina' theme. Public art on public buildings workshops to mentor Southern Cross High School students. Also held other public art with varying sustainability themes on transformer boxes.</i>	<i>Strategic and Community Facilities</i>	4.27
		CC2.2.3 Support local events				
		<i>Develop a waste policy for events</i>	<i>Reduce waste to landfill from events</i>	<i>Not started</i>	<i>Tourism/Waste</i>	4.23
		<i>Support Clean Up Australia Day</i>	<i>Reduce litter in environment</i>	<i>Eight sites were registered for Clean Up Australia Day 2014 held on 2 March 2014. Five school sites were registered for Schools Clean Up Day. Council collected and disposed of the 360kg of rubbish collected by those participating in the CUAD.</i>	<i>Waste/Environmental and Public Health</i>	4.23
		CC2.2.4 Manage and encourage Companion Animals				
Implement Companion Animals Management Plan	Actions implemented.	Review of Companion Animal Management Plan exhibition in November and December 2014. Additional doggy poo bag dispenser installed at the Compton Drive off-leash area. New campaign launched in September 2014 "There's no such thing as the dog poo fairy".	Environmental and Public Health	4.22		
OUTCOME CC3. THERE ARE SERVICES AND FACILITIES THAT SUIT OUR NEEDS						

CSP Priorities	The benefits will be...	Delivery Program Strategy	Measures/Target	2013/14 Report	Responsibility	Links to NSW 2021 Goals
		Operational Plan Activity				
CC3.1 Provide equitable access to a range of community services and facilities	<i>Increased satisfaction and participation rates</i> <i>A healthier community</i>	CC3.1.2 Oversee management of community centres and improve their access and services				
		<i>Connection of internal water tanks at Lennox Head CCC to toilets and urinals.</i>	Reduce TBL costs of operating facilities.	Work in progress.	Community Facilities/Operations Support	4.23

Direction Two: A Prosperous Economy (PE)

CSP Priorities	The benefits will be...	Delivery Program Strategy	Measures/Target	2013/14 Report	Responsibility	Links to NSW 2021 Goals
		Operational Plan Activity				
OUTCOME PE1. WE ATTRACT NEW BUSINESS AND VISITORS						
PE1.1 Promote our area as an attractive place to invest and visit	Economy grows and is more resilient Improved range of services An appreciation of the environmental assets of our local area	PE1.1.1 Work together to plan, coordinate and implement visitor attractive tourism initiatives for the region and Ballina Coast & Hinterland to benefit the local economy and community				
		Emphasise the natural assets of Ballina Shire	Recognise in Destination Management Plan	Destination Management Plan now complete. Plan recognises our local environment – beaches, coast, hinterland – as important tourism drivers. Lennox Point one of Australia's top 10 surfing destinations.	Tourism	4.27
		Enhance nature based tourism opportunities	Increase over time in low-impact nature based tourism activities	Ballina LEP 2012 implemented in February 2013. Includes specific provisions enabling nature based tourism land uses where compatible with environmental values.	Tourism	4.27
		Installation of photovoltaic panels for solar power for cabins, amenities and lighting at Flat Rock Holiday Park	Number of panels installed and capacity generated.	No resources for PV panel purchase at present.	Commercial Services	4.27
		Install solar powered lights in public areas (including tourist parks)	Save energy, lower installation costs, increase attractiveness and safety of public areas.	No further solar powered lights have been installed at this stage. This type of light is suitable to areas where grid power is not easily accessible.	Operations Support/Commercial Services	4.27
OUTCOME PE2 MY BUSINESS CAN GROW AND DIVERSIFY						
PE2.1 Develop plans that encourage business growth and diversification	Increased business opportunities	PE2.1.1 Provide strategies for business growth				
		Utilise triple bottom line methodology to evaluate proposals.	Ensure proposals consider social and environmental principles	New action	All	1.1

CSP Priorities	The benefits will be...	Delivery Program Strategy	Measures/Target	2013/14 Report	Responsibility	Links to NSW 2021 Goals
		Operational Plan Activity				
PE2.2 Promote and facilitate a range of business activities	<i>Improved perception that Council supports business</i>	PE2.2.1 Maximise opportunities and benefits to be gained from Council dredging and quarrying activities				
		Pursue improved marine infrastructure including...dredging of the Ballina bar (<i>using TBL methodology</i>)	Outcomes achieved <i>within TBL framework</i>	Approvals sought through NSW Government who are considering the situation.	Commercial Services	1.3
		Finalise quarry options report <i>using TBL methodology</i> and implement recommendations	Report completed and actions implemented	Strategic Options report was finalised in April 2013. TBL included in consideration.	Operations Support	1.3
		Determine future of Council sand pit <i>using TBL methodology</i>	Analysis completed and actions implemented	Options analysis of sandpit currently underway, TBL considered within methodology.	Operations Support	1.3
		Evaluate viability of dredging North Creek <i>including triple bottom line methodology</i>	Analysis completed and actions implemented	Approvals sought through NSW Government. No decision has yet been made.	Commercial Services	1.3
OUTCOME PE3 WE CAN WORK CLOSE TO HOME						
PE3.1 Facilitate and provide economic land and infrastructure to support business growth	<i>Increased availability of land and locations to support business activity</i>	PE3.1.1 Revitalise our retail town centres				
		Progress plans for the redevelopment of the Wigmore Arcade to encourage economic development in the Ballina town centre. <i>Use TBL framework to assess proposed redevelopment outcomes.</i>	Progress of redevelopment, net revenues and occupancy rates	Wigmore arcade current under redevelopment.	Commercial Services	1.3
PE3.2 Facilitate and provide affordable infrastructure, both business and residential	<i>More residents living close to where they work, with more affordable options available</i>	PE3.2.2 Plan for and provide new residential land and facilities in line with population growth in other areas in the Shire outside Ballina				
		<i>Implement a 'steering committee' approach to planning proposals for large or rezoning issues.</i>	All issues addressed within area of expertise.	No progress on this item as yet, although a co-ordinated approach across Council is taken already and managed by Strategic Planning.	Strategic Planning	5.31

Direction Three: A Healthy Environment (HE)

CSP Priorities	The benefits will be...	Delivery Program Strategy	Measures/Target	2013/14 Report	Responsibility	Links to NSW 2021 Goals
		Operational Plan Activity				
OUTCOME HE1. WE UNDERSTAND THE ENVIRONMENT						
HE1.1 Our planning considers past and predicted changes to the environment	<i>Reduced risk from natural disasters or changes in climate</i>	HE1.1.1 Plan, monitor and manage to protect our coastline				
		Finalise and implement Coastal Zone Management Plan for Ballina Coastline.	Plan completed and actions implemented	Draft exhibited during 2013. Plan being finalised for submission to the Minister for approval.	Engineering Works	4.22
		Implement natural area management plans on an ongoing basis.	Natural areas consolidated and enhanced	Volunteer environmental care groups provide thousands of hours of restoration contributions towards implementing management plans. External grants through the NSW Environmental Trust, Federal Government's Biodiversity Fund, Crown Lands Public Reserve Management Fund and North Coast Local Land Services have further assisted Council to implement natural area management plans at multiple sites across the shire.	Open Space and Reserves	4.22
		<i>Ensure compliance with the 'Code of Conduct' for beach vehicle access.</i>	<i>Safer multiple uses of beach, manage erosion</i>	<i>Ongoing compliance, monitoring and education regarding the Beach Vehicle Access 'Code of Conduct' has occurred. This includes maintenance of vehicle access infrastructure and partnership with Cape Byron Marine Park.</i>	<i>Open Space and Reserves/Environmental and Public Health</i>	4.23
		HE1.1.2 Plan, monitor and manage to protect our floodplains				
		Finalise Floodplain Risk Management Plan	Plan exhibited and adopted	Floodplain Risk Management Study complete, and draft Plan and associated planning provisions in preparation.	Engineering Works	4.22
		<i>Undertake Acid Sulfate Soils audit</i>	<i>Reduce impacts from the agricultural (mostly sugar cane) industry on water quality.</i>	<i>Council staff participated in audit during 2013/14.</i>	<i>Environmental and Public Health</i>	4.22
		HE1.1.3 Actively promote and undertake climate saving and environmental actions as an organisation				

CSP Priorities	The benefits will be...	Delivery Program Strategy	Measures/Target	2013/14 Report	Responsibility	Links to NSW 2021 Goals
		Operational Plan Activity				
		Report on progress to implementation of Council's Climate Action Strategy and Environmental Action Plan	Actions implemented	Climate Action Strategy has largely been progressed with some actions still remaining in Environmental Action Plan for action.	Strategic Planning	4.22
		<i>Provide information to community about environmental and public health risks.</i>	<i>Relevant information available.</i>	<i>A comprehensive range of factsheets available.</i>	<i>Environmental and Public Health</i>	<i>4.23</i>
		<i>Collate a Regional State of the Environment report.</i>	<i>RSOE completed in year of local government election.</i>	<i>New RSOE due in 2016.</i>	<i>Strategic Planning</i>	<i>4.22</i>
		<i>Prepare a Community Environmental Education Strategy.</i>	<i>Strategy adopted.</i>	<i>Resources not available to progress this year.</i>	<i>Strategic Planning</i>	<i>4.22</i>
		<i>Apply for grant funding to leverage existing resources.</i>	<i>Increase ability to undertake projects.</i>	<i>\$908 142 applied for (some projects were applied for under multiple grant programs). \$220 647 was awarded to Council for various environmental and cultural projects. Many grant programs with an environmental focus have been withdrawn by State and Federal Government in recent years.</i>	<i>All</i>	<i>4.22</i>
		<i>Protect and stabilise coastal dunes at Lake Ainsworth.</i>	<i>Coastal dune protection, ensure ongoing viability of Lake Ainsworth</i>	<i>Ongoing weed control, plantings along with natural restoration and natural stabilisation occurring within the dune system. The Lennox Head Landcare Group have been instrumental in this action. Stable beach access tracks maintained and promoted.</i>	<i>Open Space and Reserves</i>	<i>4.22</i>
		<i>Implement actions from the Bitou Bush Threat Abatement Plan (TAP.)</i>	<i>Increase in areas of native vegetation and habitat where bitou bush under control.</i>	<i>Crown Lands Public Reserve Management Fund grant received to assist Council target bitou bush and other weeds within the bitou bush threat abatement plan sites.</i>	<i>Open Space and Reserves</i>	<i>4.22</i>
		<i>Implement actions from the Chickiba SEPP 14 EIS.</i>	<i>Number of actions implemented, hectares vegetation restored.</i>	<i>APZ successfully constructed using RFS grant funds. Ongoing APZ maintenance and encroachment compliance occurring. North Coast LLS grant implemented restoring six high priority ecological sites within the wetland. Funding obtained the State Government's Estuary Management Program for hydrological works.</i>	<i>Open Space and Reserves</i>	<i>4.22</i>
		<i>Implement the Ballina Coastal Reserve</i>	<i>Effective management of the Ballina Coastal</i>	<i>Most actions for Precinct plans being progressively implemented.</i>	<i>Open Space and Reserves</i>	<i>4.22</i>

CSP Priorities	The benefits will be...	Delivery Program Strategy	Measures/Target	2013/14 Report	Responsibility	Links to NSW 2021 Goals
		Operational Plan Activity				
		<i>Plan of Management and Precinct Plans</i>	<i>Reserve.</i>			
		<i>Implement a water quality MoU with local government and agencies undertaking WQ monitoring within the Richmond River catchment</i>	<i>Comparable monitoring parameters</i>	<i>MoU in development. Ecohealth program has run during 2014 undertaking water quality monitoring across catchment.</i>	<i>Strategic Planning</i>	<i>4.22</i>
		<i>Passive gas management system to be developed for inclusion of capping of landfill</i>	<i>Reduction of methane and CO₂ generated by landfill</i>	<i>A biofilter gas capture plan has been developed for the Southern Extension but due to the closure of the landfill, no further action has been taken.</i>	<i>Waste</i>	<i>3.19</i>
		<i>School debating run during World Environment Day week.</i>	<i>Increase discussion of climate change and environment themes in the community</i>	<i>Six schools participated in debating and debating workshops which was very well received.</i>	<i>Strategic Planning</i>	<i>4.23/4.27</i>
		<i>Encourage corridor plantings, especially for Big Scrub vegetation community, to enhance biodiversity outcomes on both public and private lands.</i>	<i>Hectares replanted and corridors established</i>	<i>Council support and guidance provided to the Big Scrub Rainforest Landcare group and resources to assist ongoing restoration of the Big Scrub subtropical lowland rainforest sites in the shire.</i>	<i>Open Spaces and Resource Recovery</i>	<i>4.22</i>
HE1.2 Promote initiatives that improve our natural environment	<i>Natural environment is maintained and enhanced</i>	HE1.2.1 Reduce impact of stormwater on our waterways				
		<i>Implement Stormwater Management Plan</i>	<i>Actions implemented</i>	<i>Approvals in place for works at Lake Chickiba and funding has been applied for. Stormwater quality improvement devices now subject to a monitoring regime to assess their effectiveness and 'catch'. Funding announced in November 2014 by OEH for Chickiba wetland and Northlakes improvement projects.</i>	<i>Engineering Works</i>	<i>4.22</i>
		<i>Undertake review of Shaws Bay Management Plan</i>	<i>Updated plan adopted</i>	<i>Shaws Bay Coastal Zone Management Plan on exhibition.</i>	<i>Environment and Public Health</i>	<i>4.22</i>
		<i>Implement engineering works from Lake Ainsworth Management Plan</i>	<i>Actions Implemented</i>	<i>New master planning process for Lake Ainsworth underway.</i>	<i>Engineering Works</i>	<i>4.22</i>
		HE1.2.2 Protect Koala habitat				

CSP Priorities	The benefits will be...	Delivery Program Strategy	Measures/Target	2013/14 Report	Responsibility	Links to NSW 2021 Goals
		Operational Plan Activity				
		Prepare Koala Habitat Study and Plan of Management	Plan adopted	Vegetation mapping complete. Draft CKPoM in preparation	Strategic Planning	4.22
		<i>Undertake vegetation mapping for the shire.</i>	<i>Mapping complete.</i>	<i>Some mapping has been undertaken as part of the Koala Habitat Study. Funding application submitted to NRCMA's Call for Projects and Partners for completion of remainder.</i>	<i>Strategic Planning</i>	<i>4.22</i>
HE1.2.3 Protect and enhance our waterways						
		<i>Benchmark overall health of the Richmond River</i>	<i>Implement 'Ecohealth' program</i>	<i>Final month of monitoring in November 2014. Preliminary results due February 2015.</i>	<i>Strategic Planning</i>	<i>4.22</i>
		<i>Establish regional water quality monitoring agreement and program.</i>	<i>Regionally consistent parameters</i>	<i>Discussions held and draft prepared but project held over until completion of Ecohealth program.</i>	<i>Strategic Planning</i>	<i>4.22</i>
		Implement Coastal Zone Management Plan for the Richmond River	Work collaboratively with other catchment interests to implement priority projects	Ecohealth program had final sampling run on 19 November 2014. New estuary governance arrangements being determined. Council has increased annual funding to Richmond River County Council for CZMP implementation.	Strategic Planning/All	4.22
		Undertake review of Shaws Bay Management Plan	Updated plan adopted	Draft Shaws Bay Coastal Zone Management Plan has been on exhibition. Revised plan to be submitted to Council early in 2015.	Environmental and Public Health	4.22
		<i>Undertake and report on Beachwatch monitoring throughout swimming season</i>	<i>Improving water quality for primary contact recreation</i>	<i>Six of the ten sites monitored were graded as 'Very Good' or 'Good'. Heavy and consistent rain caused problems for Shaws Bay North and Shaws Bay West, as well as Lake Ainsworth East and Lake Ainsworth West resulting in those areas being graded as 'Poor'. Generally problems occur for up to 3 days after rain but all locations are mostly suitable for swimming throughout the year.</i>	<i>Environmental and Public Health</i>	<i>2.11</i>
		Undertake review of Lake Ainsworth Management Plan	Updated plan adopted	Review underway. Revised planning framework exhibited for feedback.	Environmental and Public Health	4.22

CSP Priorities	The benefits will be...	Delivery Program Strategy	Measures/Target	2013/14 Report	Responsibility	Links to NSW 2021 Goals
		Operational Plan Activity				
		Monitor blue-green algae levels at Lake Ainsworth throughout the swimming season.	Inform community with regard to safety of swimming.	The summer program for 2013-14 showed some low levels of blue green algae. A brief bloom caused the close of the Lake to recreational activities between 13 February 2014 and 27 February 2014.	Environmental and Public Health	2.11
HE1.3.2 Undertake actions to beautify our streetscapes, open spaces and to provide shade						
		Proactively plant suitable native trees in streets and reserves	Greater than 200 trees planted pa in urban areas	Ongoing reserve plantings continue to occur using Council staff, volunteers and programs that include National Tree Day and World Environment Day. New subdivisions include native street tree plantings. Implementation of Urban Vegetation and Tree Management Policy allows native street tree planting to continue at strategic locations.	Open Spaces and Resource Recovery	3.20
		Maintain contemporary vegetation management plans	Review at least two plans per annum	The East Ballina Reserves Vegetation Management Plan has been prepared pending approval and supersedes numerous older plans that include: Angels Beach VMP 2004, Shelly Beach to Lighthouse Beach VMP 2005, West Shelly Beach VMP 2007, Shaws Bay Escarpment Site Action Plan 2004 and four Bitou Bush Threat Abatement Site Plans. This acknowledges the successful progression of strategic restoration of the various high conservation value native vegetation communities through East Ballina.	Open Spaces and Resource Recovery	4.22
		Implement actions from vegetation management plans for urban and amenity areas.	Implement plans as adopted	Ongoing bushland restoration is occurring across numerous sites within the shire resourced through Council, external grants and volunteer environmental care groups. Ongoing fencing and beach and bushland access track maintenance occurring to guide the public and protect the urban natural areas.	Open Spaces and Resource Recovery	4.22

CSP Priorities	The benefits will be...	Delivery Program Strategy	Measures/Target	2013/14 Report	Responsibility	Links to NSW 2021 Goals
		Operational Plan Activity				
		Maintenance of weed-free reserves after target programs conclude	Funding source identified and utilised	Some ongoing maintenance provided by local volunteer environmental care groups exists however limited resources from Council excludes more broadly applied maintenance opportunities.	Open Space and Resource Recovery	4.22
		Implement actions from the Marom Creek Weir Vegetation Management Plan (2005) (partnership with Lismore City Council)	Restoration and revegetation of weir area	The third and final year of a NSW Environmental Trust Grant along with Council resources has successfully planted and revegetated along both sides of the riparian corridor (ie both in Ballina Shire and Lismore City LGA's). Ongoing maintenance restoration and continued upstream expansion of riparian corridor works are required along with an expanded vegetation management plan.	Open Space and Resource Recovery	4.22
OUTCOME HE2. WE USE OUR RESOURCES WISELY						
HE2.1 Implement total water cycle management practices	Reduced water consumption per capita	HE2.1.1 Provide and plan for the adequate water cycle requirements in urban areas				
		Implement adopted Urban Water Management Strategy	Actions implemented	A review of the total water cycle, from collection to disposal, to be undertaken. Will include an asset replacement program, prioritising actions on performance and risk. This includes the development and implementation of a recycled water quality management plan.	Water and Wastewater	3.21
		Undertake community education for all aspects of UWMS	Education programs run and successful	'Crystal' – the recycled water drop and other educational programs to be run by partnering with other organisations	Water and Wastewater	3.21
		Review of strategic water and wastewater education program of effectiveness	Review undertaken	Not started	Water and Wastewater	3.21
		HE2.1.2 Provide good quality recycled water and minimise water consumption				

CSP Priorities	The benefits will be...	Delivery Program Strategy	Measures/Target	2013/14 Report	Responsibility	Links to NSW 2021 Goals
		Operational Plan Activity				
		Provide recycled water to dual reticulated properties	Number of properties utilising service and kilolitres used	New customers have come online after exhaustive testing program of recycled water connections in recent urban release areas. Review of Section 60 Office of Water Approval to be complete before water can be supplied.	Water and Wastewater	3.21
		Average water consumption per residential connection	Less than 250kl/pa	194kL/pa for 2013/14	Water and Wastewater	3.21
		Recycled water during dry weather	20% of dry weather flows	Target is progressive, up to 80% of dry weather flows by 2026. Currently re-using about 15% annually for Lennox Head STP (before upgrade) and 104% of Wardell STP, 79% of Alstonville STP and likely to use approximately 75% of dry weather flows for Ballina when new WWTP comes online.	Water and Wastewater	3.21
HE2.2 Reduce, reuse and recycle our resources	<i>Reduction in costs and extended life for existing resources</i>	HE2.2.1 Reduce our waste to landfill through effective management and recycling				
		Conduct Demolition Waste Sorting and Diversion Trial	Trial completed and evaluated	A concept design plan has been developed by Wastech Engineering. Council has received funding from the Better Waste Recycling Fund to assist in the development of the project.	Waste Services	4.22
		Participate in regional waste Initiatives and pursue waste resource sharing opportunities	Initiatives implemented and services shared	2014 Secondhand Saturday to be held on 25 October 2014 across Northern Rivers. Green House education van agreement in place for community events.	Waste Services	4.22
		Implement Council Waste strategy	Initiatives implemented and outcomes identified	Public recycling bins installed in Ballina in 2014. Landfill Environmental Management Plan under review (reviewed bi-annually). Trial of larger (360L) recycling bins completed, now available on request. E-waste collection and recycling service finishes in January 2015. A report to Council has been prepared for the November meeting to consider options. Recycling contamination audit completed in November 2014. Household battery recycling to be introduced to all three libraries	Waste Services	4.22

CSP Priorities	The benefits will be...	Delivery Program Strategy	Measures/Target	2013/14 Report	Responsibility	Links to NSW 2021 Goals
		Operational Plan Activity				
		Provide effective and efficient waste management operations	<p>Volume of waste placed in landfill as a % of total waste received (< 40%)</p> <p>% of waste received diverted for beneficial reuse from landfill (> 50%)</p> <p>Airspace used at the landfill per year for landfill (< 10,000m3)</p>	<p>Ballina Waste Management facility is not currently land-filling waste. Contracts are in place for transporting waste to other sites for processing and disposal.</p> <p>As of 31 October 2014, 63% of received waste is diverted for beneficial reuse (up from 54% last year). No airspace has been used at the landfill this year due to landfilling not occurring.</p>	Waste Services	4.22
		Utilise electronic media to reduce need for paper copies of documents etc.	Less paper used by Council, reduction in total paper required at a community level to review documentation.	<p>All documents available on the web. 'E-blasts' used for quick consultation with community.</p> <p>CommunityConnect delivered to all households in Ballina in paper form to overcome issues with gaining access to traditional print media through releases.</p> <p>Records system introduced in 2012 has reduced need for paper copies of Development Applications and other records.</p>	Corporate Services	4.24, 5.31
		Install drinking water fountains as part of Council's commitment to the Bottled Drinking Water Alliance	Reduce need to buy bottled water, reduce waste	<p>Nine fountains installed across the shire to date.</p> <p>Council has received funding under the Better Waste Recycling Fund for the installation of a further 5 bubblers across the shire.</p>	Open Space and Resource Recovery	4.23
HE2.2.2 Reduce water wastage						

CSP Priorities	The benefits will be...	Delivery Program Strategy	Measures/Target	2013/14 Report	Responsibility	Links to NSW 2021 Goals
		Operational Plan Activity				
		Implement water loss reduction program	Actions implemented and effectiveness	134 megalitres per annum already saved through this program through three areas implemented as a trial, and a further 134 megalitres projected to be saved through pressure leakage management plan annually to 2017. This will equate to up to a \$155,000 saving annually.	Water and Wastewater	3.21
		Reduce volume of unaccounted water	Less than 18% of total water purchased	22% for 2013/14	Water and Wastewater	3.21
		Establish water meter replacement program to improve accuracy of meter readings	Program established and implemented	Work has identified that many older water meters requirement replacement, due to significant under-reading (which accounts for some of the water 'loss' from supply to billing identified).	Water and Wastewater	3.21
		Reduce water main breaks	Less than one per 30km of main	.33 per 30km/main	Water and Wastewater	5.30
HE2.3 Pursue innovative technologies	<i>Cost and resource use efficiencies</i>	HE2.3.1 Reduce our waste to landfill through effective waste management and recycling				
		Progress Biochar program	Increase in level of certainty and feasibility of project	No change.	Waste Services	1.4
		<i>Upgrade of recyclables area to effectively contain recyclables to reduce overspill and increase resource recovery rate</i>	<i>Increase in tonnages of recyclables being recovered</i>	<i>A concept design plan has been developed by Wastech engineering. Council has received funding from the Better Waste Recycling Fund to assist in the development process. A site option assessment has been prepared to assist in finding a preferred location.</i>	Waste Services	1.4
		HE2.3.2 Increase efficiencies for treating wastewater				
		Implement reticulation main renewal program	Initiatives implemented and results forthcoming	Investigation study underway	Water and Wastewater	3.19

CSP Priorities	The benefits will be...	Delivery Program Strategy	Measures/Target	2013/14 Report	Responsibility	Links to NSW 2021 Goals
		Operational Plan Activity				
		Complete the Ballina Salinity Infiltration Reduction Program	Reduce non-sewage inflow to pipes	Contract completed. No significant reduction in wastewater salinity levels. Council investigating reverse osmosis to reduce salinity levels in recycled water, and if required evaluate the economic justification for further sewer rehabilitation.	Water and Wastewater	3.19
OUTCOME HE3. OUR BUILT ENVIRONMENT BLENDS WITH THE NATURAL AND CULTURAL ENVIRONMENT						
HE3.1 Develop and implement plans that balance the built environment with the natural environment	More people are satisfied with our management of development	HE3.1.1 Plan and provide for residential urban and semi-rural expansion				
		Complete DCP/urban design for the Cumbalum Urban Release Area	DCP implemented	DCP for Cumbalum Precinct B area complete and operating. DCP for Cumbalum Precinct A under preparation.	Strategic Planning	3.20
		Investigate concept of semi-rural land uses at the edges of urban areas	Investigation completed	Background research completed. Further examination to be undertaken at next review of the Ballina Shire Growth Management Strategy.	Strategic Planning	3.20
		HE3.1.2 Maintain and enhance existing communities				
		Prepare strategic land use plan for Ballina Island	Plan adopted	Ballina Major Regional Centre Strategy Project announced and community consultation begun.	Strategic Planning	5.32
		Review Planning Framework for Alstonville	Updated planning framework adopted	Not commenced.	Strategic Planning	5.32
		Seasonal monitoring of mosquito populations utilising the Arbovirus Monitoring Program	Provide early warnings to community when extra caution required	Monitoring program undertaken. One detection of Ross River virus at Pacific Pines site during the season.	Environmental and Public Health	2.11
HE3.2 Minimise negative impacts on the natural environment	Retention of our natural environment	HE3.2.1 Ensure compliance with environmental legislation and standards				
		Develop and implement Illegal Dumping Action Plan	Actions implemented	Online reporting form available via Council website which reports directly back to Council, and involves community in reporting.	Environmental and Public Health	5.30
		Establish Waste Management Plan for Multi-Unit Residential Developments	Plan completed	Draft Policy prepared.	Environmental and Public Health	3.20

CSP Priorities	The benefits will be...	Delivery Program Strategy	Measures/Target	2013/14 Report	Responsibility	Links to NSW 2021 Goals
		Operational Plan Activity				
		Number of major non-compliance events – waste, water and wastewater	Nil major compliance issues	Nil in 2013/14.	Water and Wastewater	5.30
		Complete quarterly compliance reports for water and wastewater in respect to licence requirements	100% of reports are completed within 30 days of quarter	60% complete in 2013/14.	Water and Wastewater	5.30
		Continue inspections of all on-site sewage management systems to ensure systems are compliant	Number of on-site sewage management systems inspected (Target > 250)	187 inspections undertaken in 2013/14. 3% failed and 34% non-compliant (working, but may be missing a cover etc).	Environmental and Public Health	4.22
HE3.2.2 Reduce impact of Council energy consumption on environment						
		Average fleet green star rating (petrol vehicles)	Greater than 3.5	Average fleet green star rating is 3.83 for petrol vehicles. Light pool vehicles are diesel fuelled which provides better CO ₂ emissions and fuel economy, but worse rating due to particulate emissions at 2.56. Life cycle costing utilised to ensure best possible decision. Emissions and greenhouse rating heavily weighted in costing to ensure emissions as low as possible.	Operations Support	4.22
		Reduce CO ₂ emissions from Council's Built Assets	CO ₂ emissions (Target < 8,800 tonnes)	Activities ongoing. Customer Service Centre A/C requires urgent replacement, which will improve energy efficiency by the use of new units. Large scale 300kW solar PV system at the Ballina WWTP installed and will supply approximately 20% of the daily (24 hour) energy needs of the plant. 8972 tonnes of CO ₂ emissions this year, largely due to the operations of the new WWTP's needing to process wastewater to a much higher standard than previously.	Operations Support	4.22
		<i>Ballina-Byron Airport – Energy Management Program</i>	<i>Reduce lighting costs and CO₂ emissions</i>	All lighting in public areas has now been converted LED lighting, which provides low energy use lighting. LED fittings have also been purchased to refit carpark and outdoor awning areas and are awaiting installation. This will reduce energy usage significantly for airport lighting as a whole. Already, there has been a 10% reduction in energy usage at the airport as a result.	<i>Airport Operations</i>	3.19

CSP Priorities	The benefits will be...	Delivery Program Strategy	Measures/Target	2013/14 Report	Responsibility	Links to NSW 2021 Goals
		Operational Plan Activity				
		<i>Rechargeable batteries for use in computer 'mice' and electronic keyboards.</i>	<i>Reduction in use of non-renewable batteries, less environmental impacts.</i>	<i>Move back to 'plug-in' mice.</i>	<i>Information Services</i>	<i>4.23</i>

Direction Four: Engaged Leadership (EL)

CSP Priorities	The benefits will be...	Delivery Program Strategy	Measures/Target	2013/14 Report	Responsibility	Links to NSW 2021 Goals
		Operational Plan Activity				
OUTCOME EL1. OUR COUNCIL WORKS WITH THE COMMUNITY						
EL1.2 Involve our community in the planning and decision making processes of Council	<i>More people in the community proactively participating in Council engagement activities</i>	EL1.2.1 Expand opportunities for involvement in Council activities				
		<i>Provide a terminal (or kiosk) at the Customer Service Counter for customers to view documents and find information.</i>	<i>Saves paper and improves Council's service to the community.</i>	<i>Kiosk still in design phase funded 2013/14.</i>	<i>Information Services</i>	<i>5.31</i>
EL1.3 Actively advocate community issues to other levels of government	<i>Increased levels of State and Federal Government support</i>	EL1.3.1 Be the voice of our community and liaise with State and Federal Governments				
		Approach State and Federal Governments and local members in respect to issues that affect our Shire	Issues identified and pursued	State and Federal governments engaged from time to time (eg, koala management, planning for Pacific Highway upgrade).	Governance and Finance	5.31
		EL1.3.2 Pursue additional revenue opportunities from other levels of government				
		Actively seek grant funding from State and Federal Governments	Number of grant applications submitted - greater than 40 pa (this figure for all grants, not just environmental)	Twenty eight grant applications submitted, not all environmental. Three environmental applications successful – attracting a total of \$149,447 for environmental tourism, vegetation and cultural recognition programs. Value of	All	1.2

CSP Priorities	The benefits will be...	Delivery Program Strategy	Measures/Target	2013/14 Report	Responsibility	Links to NSW 2021 Goals
		Operational Plan Activity				
				programs applied for but not successful is \$828 200.		
OUTCOME EL2. COUNCIL'S FINANCES AND ASSETS ARE WELL MANAGED						
EL2.1 Proactively pursue revenue opportunities, cost savings and/or efficiencies	More financially viable Council resulting in improved asset management	EL2.1.2 Implement and utilise contemporary Asset Management systems				
		Develop an Environmental Safety Statement for Council's Operations.	Statement developed collaboratively, and implemented.	Not started.	Asset Management	3.19
		EL2.1.3 Utilise plant, equipment and stock effectively and efficiently				
		Implement Procurement Roadmap	Level of compliance	Dedicated staff resource focussing on procurement activity improvements.	Operations Support	1.4
		Implement sustainable purchasing policy	Link economic performance with social, environmental and ethical outcomes.	Policy has been developed but no substantial implementation as yet.	Governance and Finance, Civil Services	1.4
		Conduct survey of suppliers to ensure operations and products consistent with Council's policy (as above)	Improve access to sustainable options for everyday items	Not started. Procurement Co-ordinator position has now been filled.	Operations Support	1.4
		Small plant performance assessment – lifecycle costings and energy rating	Value for money	Council staff assess available small plant for best environmental and operational outcome. This is ongoing.	Operations Support	3.19

CSP Priorities	The benefits will be...	Delivery Program Strategy	Measures/Target	2013/14 Report	Responsibility	Links to NSW 2021 Goals
		Operational Plan Activity				
		Reduce energy consumption (dollar value) from Council's Built Assets	Energy cost less than \$1,700,000 pa	Retrofit of lighting completed for 1/3 of Council's Customer Service Centre. This has resulted in a 15% decrease in energy consumption. Sensors have been installed in toilets and staff room areas. The dollar value of energy bills may not reduce due to increased fees and charges associated with energy bills, even where consumption is minimised.	Operations Support	3.19
		Construct covered store for small plant and stockpiles of materials	Reduce weathering of materials and protect plant from elements.	Covered store complete. Rainwater tank installed for use amenities associated with shed.	Operations Support	3.19
		Installation of GPS systems for Council's works fleet.	Efficient use of Council plant.	Currently operate 5 GPS systems in garbage trucks, 2 in rangers vehicles and 4 in OSR Ferris Mowers.	Operations Support/Waste	3.19
EL2.2 Utilise modern operating systems and apply contemporary practices	<i>Increased efficiencies and higher staff satisfaction levels</i>	EL2.2.1 Improve organisation's technology by progressively utilising available software that integrates with our existing systems				
		<i>Incorporate sustainability requirements or targets into position descriptions.</i>	<i>Each PD has a clear indication of the position's contribution to QBL within the Council.</i>	<i>General sustainability principles have been incorporated into the PD's.</i>	<i>Human Resources and Risk Management</i>	1.6
OUTCOME EL3. WE ARE ALL VALUED CITIZENS						
		EL3.2.1 Provide efficient services to our clients				

CSP Priorities	The benefits will be...	Delivery Program Strategy	Measures/Target	2013/14 Report	Responsibility	Links to NSW 2021 Goals
		Operational Plan Activity				
EL3.2 Deliver responsive and efficient services	<i>Increased community satisfaction levels with Council's customer service</i>	Enhance web accessibility - <i>Ensure information showing Council's environmental performance across all areas is available on the web.</i>	Updated annually	Website regularly updated with new information.	All	1.4

Ideas for Environmental Action

This next section of the document details actions that have yet to be progressed as well as ideas that have been put forward by staff, Councillors and the public that may be considered in the future.

CSP Priorities	The benefits will be...	Delivery Program Strategy	Measures/Target	Responsibility	Links to NSW 2021 Goals
		Operational Plan Activity			
CC1.3 Monitor the built infrastructure and the services delivered to the community to ensure relevant standards are being met	Higher levels of legislative compliance	Develop a Building Management System in stage 2 of the passenger terminal re-development at the airport.	Reduced energy consumption	Airport	3.19
	Lower risks of accidents and outbreaks of disease	Develop an 'Environmental Safety Statement' for Council operations	Increase certainty in Council's environmental performance	Civil Services	3.19
		Implement a 'steering committee' approach for rezoning with representation from Strategic Planning, Development and Environmental Health, and Civil Services to capture all environmental and practical considerations.	Streamline requirements for developers with regard to environmental considerations	Strategic Planning	3.19
		Introduce a schedule of environmental performance for works over \$20 000 for completion by those submitting tenders (currently required for works over \$150 000)	Include in assessment process to ensure best practice in all works for Council. Review of schedule required by procurement panel.	Operations Support	3.19
		Investigate options for making a Council building carbon neutral	Save energy, but also demonstrate Council's commitment to addressing future climate.	Operations Support	4.23
HE1.1 Our planning considers past and predicted changes to the environment	Reduced risk from natural disasters or changes in climate	Build display homes to show what is possible in terms of ESD.	Building constructed or alternative method to meet desired outcomes found.	Strategic and Community Facilities	4.23
		Communicate local climate change information through social networking technology.	Opportunities utilised to provide informal discussion on climate change	Strategic Planning	4.23

CSP Priorities	The benefits will be...	Delivery Program Strategy	Measures/Target	Responsibility	Links to NSW 2021 Goals
		Operational Plan Activity			
		Establish a ClimateCam for energy and another for Water	'Real-time' public awareness of water usage and energy usage in their locality measured in kilolitres and kilowatt hours.	Operations Support/Water and Wastewater	4.23
		Establish a web-page on design and renovation for new and additions to homes	Webpage developed for information of local residents.	Strategic Planning	4.23
		Investigate feasibility of charging an additional (voluntary) fee on normal charges for environmental initiatives	Program implemented, resources received, projects implemented	Strategic Planning	4.22
		Investigate funding partnerships with private or NGO sector to progress environmental initiatives	Formation of public/semi-private partnerships to progress project based work	All	4.22
		Form alliance with other coastal shires in NSW to collaborate on funding from government	Number of applications submitted, number successful	All	4.22
		Prepare a community environmental education strategy	Strategy established, endorsed and resourced.	Strategic Planning	4.23
		Review website to ensure linkages with relevant local sustainability organizations and showcase local industry (ie sustainable fishing, local primary production etc)	Website links established and promoted	Strategic Planning	4.23
HE2.1 Implement total water cycle management practices	Reduced water consumption per capita	Install dual flush cisterns in female and disabled public toilets	Reduced potable water consumption	Operations Support	3.196
		Install water tanks to harvest stormwater and plumb into toilets for flushing	Reduced potable water consumption	Operations Support	3.19
		Install waterless urinals in public toilet facilities	Reduced potable water consumption	Operations Support	3.19
		Install waterless urinals in Customer Service Centre toilet facilities	Reduced potable water consumption	Operations Support	3.19

CSP Priorities	The benefits will be...	Delivery Program Strategy	Measures/Target	Responsibility	Links to NSW 2021 Goals
		Operational Plan Activity			
HE2.2 Reduce, reuse and recycle our resources	<i>Reduction in costs and extended life for existing resources</i>	<i>Investigate new ways to divert 1000 tonnes of food waste and 1800 tonnes of dry recyclables by 2014 to meet WASIP targets</i>	<i>Avoid penalties for waste to landfill, tonnages diverted from landfill</i>	Waste	4.23
		<i>Investigate provision of organics waste to business</i>	<i>Tonnages diverted from landfill</i>	Waste	4.23
		<i>Investigate recycling from commercial suppliers – why is recycling more expensive to pick up than rubbish</i>	<i>Better recycling rates as a shire (much of commercial waste currently taken out of Ballina shire)</i>	Waste	4.23

Appendix 1: Vegetation Management Plans for Council Reserves

East Ballina Crown Reserve VMP 2003

Little Fisheries Creek Reserve VMP 2003

Duck Creek Reserve VMP 2003

Duck Creek High Conservation Value VMP 2004

Hutley Road Reserve VMP 2004

Lumley Park VMP 2004

Rainforest Way VMP 2004

Tara Downs Rainforest Palm Forest and Wetlands Restoration Management Plan 2000

Tintenbar Hall Reserve VMP 2004

Killen Falls VMP 2004

Willow Bank WMP 1998

Western Chilcotts Creek VMP 2002

Mercer Park Native Restoration Management Plan 2003

Dalwood Scrub Rainforest Restoration Management Plan 1999

Wollongbar Drainage Reserve Restoration Plan (2001)

Ross Lane Reserve Vegetation Restoration Plan (2004)

Lake Ainsworth Vegetation Management Plan 2007

Seven Mile (Precinct 2) Beachfront VMP 2005

Shaws Bay Escarpment VMP 2004

Angels Beach VMP 2004

Maguires Creek Catchment VMP

Sharps Creek to Shag Rock VMP

Shelly Beach to Lighthouse Beach VMP

Patches Beach VMP 2001

Western Shelley Beach VMP 2002

Lennox Point VMP March 2006

Appendix 2: Database of complete actions

This section provides an historical database of actions completed that are finalised and require no further action.

Action	Benefits and Outcomes	Council Area	CSP Outcome
'Plain english' community information sheets about climate change.	Decision taken that it is more appropriate that this information be provided on a regional, state or national basis. Council provides some information on their website. (October 2012)	Strategic and Community Facilities	Individual and collective action to mitigate the risks posed by a changing climate.
Adoption of Companion Animals Management Plan.	Assist pet owners and wider community to manage expectations about rights and responsibilities of pet owners. Plan now adopted and implementation underway.	Environmental Health	Clean beaches and foreshores.
Assess hardware solutions for their green credentials and commitment to materials recovery of redundant hardware.	Improved whole-of-lifecycle management with Council making informed purchasing decisions as to where products come from and where it goes to after Council use. IT equipment is purchased on State Govt contract, which includes green credentials as part of the contract assessment process. (February 2012)	IT	Socially and environmentally responsible business.
Assess hardware solutions for their green credentials and commitment to materials recovery of redundant hardware.	Improved lifecycle analysis both pre and post purchase. State Government contract includes these parameters as part of consideration – all IT equipment is purchased through this process.	Information Services	Efficient production systems that minimise and reuse waste.
Assess hybrid technologies as new applications arise for cost/benefit and application for vehicles.	Hybrid passenger vehicles are not as viable for use as there are significant barriers to servicing and maintenance. Hybrid tractor coming onto market which Council is looking into, that may be useful.	Depot	Socially and environmentally responsible business.
Assess new fuel technologies associated with small plant as replacement required - select for best fuel economy and lowest emissions. (Replaces - Phase out two stroke engines in Council small plant fleet where possible, replace with four stroke engines).	Improved fuel efficiency, less smoke & other pollutants released into the atmosphere. Less noise. Ongoing action which is now embedded into Council's normal practice. (2012)	Depot	Effective and responsible power generation and use
Audit adequacy of chemical storage controls at the Depot.	Reduce the risk of the pollution. Improve Workplace Health and Safety. Audit complete. Currently have a safe chemical storage area for Water and Sewer. Construction of a specialised chemical store scheduled for 2016/2017.	Depot	Socially and environmentally responsible business.
Beachwatch WQ monitoring program for 2011/2012.	Public health and environmental information provided to the public regarding water quality. Most beaches and swimming areas have good to excellent ratings, with the exception of Shaws Bay East which has poor drainage and significant adjacent urban development.	Environmental Health	Clean beaches and foreshores.

Action	Benefits and Outcomes	Council Area	CSP Outcome
Carried out environmental rehabilitation works including a community/business tree planting day at Kingsford Smith Reserve – Ballina.	Rehabilitation of sensitive land and also engagement of local businesses in the tree planting day highlighting the link between business activities and the local environment.	Public and Environmental Health	Maintain our diverse and attractive landscapes.
Carry out energy audits for key sewage treatment and pumping infrastructure.	Audits have been completed for all key infrastructure including pump stations. (2010)	W&S	Individual and collective action to mitigate the risks posed by a changing climate
Collate a Regional State of the Environment report.	First regional SoE prepared for 2012 by the NRCMA funded by Councils and CMA in partnership. (November 2012)	Strategic and Community Facilities	Continuous improvement in the condition of our environment in all areas of the Shire
Complete Sewer Backlog Program.	Connects groups of unsewered properties which are located near existing urban sewerage areas to Council's sewer system. Addresses public and environmental health issues. All properties which can be connected under this program have now been connected.	Water and Wastewater	Clean beaches and foreshores.
Completed PC Refit With LCD Monitors.	Remaining replacements will result in an energy saving of approximately 14160 kWh and 15 tonnes of eCO2 p.a. (2006)	IT	Effective and responsible power generation and use.
Completed Sustainable Urban Business project.	Environmental and Sustainability Assessments for Small to Medium Businesses. Sustainability Education Kits for businesses distributed. Community education material over 6 week campaign in local media. Undertook CEO Forum with a sustainability focus. Initial energy efficiency lighting audit of Council's Customer Service Centre. Champion business of the month promotions. Sustainability assessments for Council owned buildings. Resource Efficiency Workshops for local businesses.	Public and Environmental Health	Socially and environmentally responsible business.
Construct leachate pre-treatment facility at Council's waste management facility.	Improved water quality and reduced risk of pollution. Reduces ammonia, TKN, BOD and COD concentrations in treated effluent. Plant constructed and operational as at June 2011.	Waste	Continuous improvement in the condition of our environment in all areas of the Shire.
Constructed a catchment activity model of Richmond River.	Encourages understanding about the water cycle and the need to care for our catchment. Utilised regionally for community and school education events. (2009)	Strategic and Community Facilities	Excellent water quality in the Richmond River.
Construction and chemical handling storage area for waste management facility for public use as well as Council's own operations.	Reduce amounts of toxic materials being sent to landfill. Chemical handling is available at the landfill with some closets put in. The material is then transported to the regional facility at Lismore for disposal. Not all chemicals are taken as no adequate provision to ensure safe handling and disposal practices. Council's policy is to rely on the regional facility at Lismore for these.	Depot	Socially and environmentally responsible business.

Action	Benefits and Outcomes	Council Area	CSP Outcome
Construction of a chemical handling storage area for waste management facility for public use as well as Council's own operations.	Handling of some chemicals now available, but Lismore Regional Waste Facility is still the main destination for chemicals.	Waste	Continuous improvement in the condition of our environment in all areas of the Shire.
Continue to coordinate the Summer Bus initiative.	No longer funded as usage rates too low (only 1 to 2 people per night utilising bus). (2010)	Strategic and Community Facilities	Efficient and effective transport.
Continue to provide for the recycling of tyres at the Ballina Waste Management centre.	Divert waste from landfill, provide raw materials for use in other applications. 12 tonnes of tyres were diverted last year from the landfill. 80% of these were recycled and 13% reused (2011 figures).	Waste	Efficient production systems that minimise and reuse waste
Council currently utilizes electronic tender system to reduce hardcopy tenders.	Reduced paper. Reduced cost of printing. (2011)	Commercial	Efficient production systems that minimise and reuse waste.
Council supporting and enabling community gardens, school gardens, farmers markets, and backyard vegetable gardens.	Reduce food miles associated with food production and consumption, community cohesion benefits. Have supported the development of the Ballina Community Garden and markets selling local produce within the shire. New markets supported include Ballina Twilight Markets and Alstonville Farmers Markets (to open soon – August 2013).	Strategic Planning	Individual and collective action to mitigate the risks posed by a changing climate.
Council to investigate and consider available options for the management of sea level rise risks and severe weather events in relation to low lying settlements in the shire.	Have available information on potential risks and outcomes of climate change to improve response. In the short to medium term, this is being considered as part of the Floodplain Management Plan and Coastal Hazard Management Plan.	Engineering Works	Individual and collective action to mitigate the risks posed by a changing climate.
Council to investigate bicycle loan/share system similar to Brisbane model.	Recommendation of Climate Ballina citizens forum. Encouraging more sustainable modes on transport in the shire can increase uptake of these modes and reduce greenhouse gas emissions. Council explored this option, and utilises two bicycles in its own fleet for short rides. A number of bicycle shops offer short-term hire. (March 2012)	Strategic and Community Facilities	Efficient and effective transport.
Council to investigate incentives for people who install solar power and other energy efficiency measures on existing housing.	Recommendation of Climate Ballina citizens forum. Almost 1 in 4 households in Ballina have taken up the option for solar power cells, some in response to Council's energy efficiency awareness and education campaigns and others in response to state and national campaigns including generous feed in tariffs. (March 2012)	Strategic and Community Facilities	Individual and collective action to mitigate the risks posed by a changing climate.
Council to plant more native trees but not in places where they create a bushfire hazard.	Provides habitat, limits soil loss, stores carbon. Council's new Street Tree Planting program underway supporting this action. Council's nursery and own park and gateway plantings also support this action.	Open Space and Reserves	Individual and collective action to mitigate the risks posed by a changing climate.
Council to show leadership in relation to establishment of a local centre for distribution of local and regional produce (lower emissions and sustainable local economy and local-social cohesion).	Council's involvement in the Foodlinks project has supported initiatives encouraging this action. Summerland HWNS has successfully attracted funding to set up a distribution hub for local and regional produce. (2011)	Strategic and Community Facilities	Individual and collective action to mitigate the risks posed by a changing climate.

Action	Benefits and Outcomes	Council Area	CSP Outcome
Council to support/ enable community gardens, school gardens, local farmers market and backyard vegetable gardens.	Recommendation of Climate Ballina citizens forum. Council has supported the development of the Ballina Community Garden which was established in 2010. Local farmers markets are also being supported in Alstonville and Ballina. (March 2012)	Strategic and Community Facilities	Individual and collective action to mitigate the risks posed by a changing climate.
Council/State government to investigate removal of impediments to evacuation of Ballina (e.g. widening of bridges, removal of bottlenecks)	Investigating impediments to efficient and safe evacuation increases the ability to respond effectively and minimise risk to human life. In the short to medium term, this is being considered as part of the Floodplain Management Plan and Coastal Hazard Management Plan.	Engineering Works	Individual and collective action to mitigate the risks posed by a changing climate.
Develop a Climate Change Action Strategy.	The Ballina Shire Council Climate Action Strategy was developed in conjunction with the community during 2010 and 2011, and was endorsed by Council at its December 2011 meeting. A number of actions have already been implemented. (2011)	Strategic and Community Facilities	Individual and collective action to mitigate the risks posed by a changing climate
Develop a Climate Change Adaptation and Mitigation Action Plan.	Ballina Shire Council Climate Action Strategy 2012 -2020 endorsed by Council in December 2011. Implementation of actions required through the Environmental Action Plan.	Strategic Planning	Individual and collective action to mitigate the risks posed by a changing climate.
Develop a system and methodology for financial monitoring of spending on environmental actions and savings gained through sustainability actions.	Highlight the cost effectiveness of environmental activity. A 'revolving' energy fund has been established, where cost savings made on energy usage will be redeployed to other projects reducing energy usage in the future. (2011)	Corporate	Socially and environmentally responsible business
Develop a system and methodology for financial monitoring of spending on environmental actions and savings gained through sustainability actions.	Highlight the cost-effectiveness of environmental activity. A revolving energy fund has been set up that is currently receiving funds generated from feed-in tariffs for solar electricity on Council's facilities as well as expected savings on electric streetlights after retrofitting program. Savings are currently 'paying off' capital costs of installation.	Finance	Socially and environmentally responsible business.
Develop a system for monitoring air-conditioning units in Council's built assets to ensure units are operating at maximum efficiency and have in place controlled time of use.	An air-conditioning monitoring system has been installed in Council's administration building to ensure maximum efficiency of energy use. However, it appears the system requires total replacement. (2010)	Built Assets	Effective and responsible power generation and use
Develop an environmental management plan for the depot.	Control inappropriate storage of chemicals, tyres, batteries and other potentially contaminating materials. Reduced risk of pollution. Improve storm water quality leaving the site. As at March 2012, Environmental Protection Plan for fuel storage and Depot Safety management Plan developed 2010 and requires daily tank dip to detect any fuel leaks from tanks. Also regular testing to ensure fuel is not leaking into ground water. A groundwater monitoring well (bore) has been installed in accordance with UPSS (Underground Petroleum Storage Systems) legislation.	Depot	Socially and environmentally responsible business
Developed a shire-wide waste management strategy.	Strategy completed and adopted in 2010.	Waste	Efficient production systems that minimise and reuse waste.

Action	Benefits and Outcomes	Council Area	CSP Outcome
Developed a Sustainable Purchasing Procedure.	Procedure developed but no simple way of implementation at this stage. (2008)	Strategic and Community Facilities	Socially and environmentally responsible business.
Developed the 'Avoiding the Dangers of Accepting Fill on Your Land' brochure and included in rate notices to Ballina Shire rural rate payers 2007.	Educated rural land owners about the dangers of accepting uncertified fill on their land. Potentially reduce the number of contaminated sites within Ballina Shire. (February 2010)	Public and Environmental Health	Continuous improvement in the condition of our environment in all areas of the Shire.
Development of a brochure and web page on care of water tanks.	Increased community awareness of the importance of maintaining water tanks to help ensure good water quality and reduce the possibility of mosquito infestation.	Public and Environmental Health	Effective water collection use and reuse.
Draft sea level rise of 50cm and 90cm (as provided by the NSW Government in their draft policy statement) to be included in flood modelling.	Inclusion of latest climate change predictions, in line with NSW Government recommendations. to ensure use of contemporary information. This action can no longer be included due to a change in NSW Government policy, but was previously completed. (October 2012)	Engineering Works	Individual and collective action to mitigate the risks posed by a changing climate.
Educate community on existing bus services.	Recommendation of Climate Ballina citizens forum. Bus transport as well as pedestrian and cycle traffic options is supported by Council through the Road Safety Officer. (2012)	Strategic and Community Facilities	Socially and environmentally responsible business
Efficient sorting of waste to ensure appropriate disposal.	Equipment has been purchased to ensure greater accuracy in sorting and weighing of waste. Assists Council to meet licensing requirements for EPA, as well as ensure that only appropriate materials are sent to landfill.	Waste	Efficient production systems that minimise and reuse waste
Encourage continued take up of 4-cylinder vehicles in council fleet.	The 4-cylinder vehicles selected produce between 1.2 and 2.4 tonnes of equivalent eCO ₂ less than that of a 6-cylinder vehicle. 65% of private use vehicles are now 4 cylinder, and 25% are diesel. (2012 figures, but policy introduced in 2009)	Depot	Efficient and effective transport.
Engage a Sustainability Environmental Education Officer.	Specialist community engagement skills now held in house. Opportunities for collaboration with other councils (and therefore cost savings). (March 2012)	Strategic and Community Facilities	Continuous improvement in the condition of our environment in all areas of the Shire.
Engage a Sustainability Environmental Education Officer.	Specialist community engagement and education skills held in-house. A part-time Sustainability Planner with these skills has now been employed. Planner has significant corporate history in environmental education in local and regional area.	Strategic Planning	Continuous improvement in the condition of our environment in all areas of the Shire.
Ensure environmental information on website is accurate and current.	Information accurate and timely. Environmental information across a range of issues has been updated. Located at 'Environmental messages' on Council's website.	Various	Continuous improvement in the condition of our environment in all areas of the shire.

Action	Benefits and Outcomes	Council Area	CSP Outcome
Ensure new buildings have sustainable technology such as solar power, solar hot water and rainwater tanks.	Increasing sustainability of new buildings improves efficiency and reduces green house gas emissions. Green Home and Green Building Checklists have been developed for those submitted development applications.	Development Application Review	Individual and collective action to mitigate the risks posed by a changing climate.
Establish a correspondence policy in relation to electronic delivery.	Improve staff efficiency and cost savings. Policy established, but not all correspondence can be sent electronically. (February 2012)	Corporate	Socially and environmentally responsible business.
Establish a correspondence policy in relation to electronic delivery.	Improve staff efficiency and cost savings. Community Connect and staff newsletter are examples, but limitation for outdoor staff and those with no computer access. Policy is that where possible electronic delivery is the preference.	Policy and Communication Liaison	Socially and environmentally responsible business.
Establish a herbicide usage and spray policy.	Reduce use of herbicide and areas of overspray. Improved customer perceptions about council's environmental practices. Policy now operational.	Depot, Open Space and Reserves	Maintain our diverse and attractive landscapes.
Establish capability to sell native plants from Council's nursery.	Potential for raising revenue for NRM work. Increase in native endemic vegetation in private gardens, improved habitat potential. Nursery selling plants is now operational. Sales and level of cost recovery will be reviewed after a period of operation.	Open Space and Reserves	Continuous improvement in the condition of our environment in all areas of the shire.
Establish requirement for energy efficient street lighting in newly developed areas.	New streetlighting infrastructure matches energy efficiency of existing infrastructure that has been recently retrofitted with energy efficient fittings. An addition to the Ballina Shire Combined Development Control Plan is now complete.	Strategic Planning	Socially and environmentally responsible business.
Establish staff carpooling network. Establish a carpooling database linking work colleagues who live in close proximity to each other that can travel to work together.	Carpooling network established in 2008 and has now been rolled into the Northern Rivers Carpool network which is still operational. (2008)	Strategic and Community Facilities	Individual and collective action to mitigate the risks posed by a changing climate.
Establish sustainability criteria for inclusion in all tender processes requiring a minimum NABERS standard of 4 stars. Issues such as life-cycle costing, healthy buildings, energy and water efficiency, green buildings.	4 stars will enable Council to be comparable to other local government areas and businesses. Reduced environmental impacts of products and services purchased by Council. (2011)	Commercial	Infrastructure and facilities that meet individual and community needs.
Finalise the Richmond River Estuary Management Plan.	Plan gazetted as the Coastal Zone Management Plan for the Richmond River Estuary (February 2012)	Strategic and Community Facilities	Excellent water quality in the Richmond River.
Finalise the Richmond River Estuary Management Plan.	Provide for grant opportunities to improve the health of the Richmond River. Coastal Zone Management Plan for the Richmond River Estuary gazetted in February 2012.	Strategic Planning	Excellent water quality in the Richmond River.

Action	Benefits and Outcomes	Council Area	CSP Outcome
Implement a fleet management system	Improved fuel consumption rate and reduced operating costs. Ausfleet fleet management system is operational and as data is collected it will allow monitoring of fleet items with regard to fuel consumption etc. For private use vehicles, 3.56 stars is the average standard achieved. However, commuter use vehicles are diesel, attracting a 2.6 star standard, which is obviously lower. These offer better fuel economy though, so there is a balance being struck.	Depot	Socially and environmentally responsible business.
Implement a fleet management system.	Improved fuel consumption rate and reduced operating costs. Fleet management system is operational and as data is collected, this will allow monitoring of fleet. Future plant purchase decisions will utilise this information to ensure best value.	Fleet and Supply	Efficient and effective transport.
Implement a Street Tree Planting program with targets for native species, both endemic and indigenous.	Increased numbers of native trees, enhance biodiversity, improved customer perceptions. 'Urban vegetation and tree management on public lands' policy in place. Implementation underway.	Open Space and Reserves	Maintain our diverse and attractive landscapes.
Implement a Urban 3-bin Waste Service with organic waste collection	Divert organic waste from landfill, compost for use in agriculture etc. Higher contamination rates at Christmas and other holiday periods. Recent article in Advocate aimed at reducing contamination rates (at 4% as at September 2012). (2011)	Waste	Efficient production systems that minimise and reuse waste
Implement after hours auto shutdown of overhead monitors at the Airport Terminal Check-In counters.	Reduced electricity use. Extend life of monitors.(October 2012)	Airport	Efficient production systems that minimise and reuse waste.
Implement after hours auto shutdown of overhead monitors at the Airport Terminal Check-In counters.	Reduced electricity use. Extend usable life of monitors. Automatic shutdown implemented.	Airport	Socially and environmentally responsible business.
Implement and complete the Backlog Sewer Program.	Connects groups of unsewered properties which are located near existing urban sewer areas to Council's sewer system. In doing so it addresses existing public health and environmental issues. All eligible properties are now connected. (2010)	W&S	Clean beaches and foreshores.
Implement Biodiesel Fuel Program .	Produce less carbon emissions and smoke particulates. Avoids the use of fossil fuels. Biodiesel (B20) was in Council's trucks for over eighteen months. Have now moved back to B5 diesel. (2014 update, introduced 2010)	Depot	Socially and environmentally responsible business
Implement Biodiesel Fuel program.	Produce less carbon emissions and smoke particulates. Displaces some usage of fossil fuels. All Council's heavy plant is currently utilising B20 from new bowsers at Council's works depot.	Fleet and Supply Co-ordinator	Socially and environmentally responsible business.
Implement drop- off and recycling of compressed fluorescent lights and fluorescent lights at Council's Waste Management Facility.	Improved environmental management and opportunities for recycling and reuse. Completed. (2009)	Waste	Efficient production systems that minimise and reuse waste.

Action	Benefits and Outcomes	Council Area	CSP Outcome
Implement Lake Ainsworth Management Plan.	Ensure the environmental outcomes detailed in the management plans are achieved, including adjusting of the running time for Lake Ainsworth Aeration System. (February 2010)	Public and Environmental Health	Continuous improvement in the condition of our environment in all areas of the Shire.
Implement Stormwater Quality Management Plan at Council's Waste Management Facility.	Improved water quality and reduced risk of pollution.	Waste	Continuous improvement in the condition of our environment in all areas of the Shire.
Implement the use of remanufactured printer cartridges in printers.	Reduced resource footprint associated with the production of cartridges. Remanufactured printer cartridges used in all printers but not photocopiers. (2012)	IT	Efficient production systems that minimise and reuse waste.
Implemented the 'Bin Your Butt' community education project.	Raised community awareness in relation to cigarette butt littering. Provided community butt bins at key identified sites in public spaces i.e. Wigmore Arcade. (June 2010)	Public and Environmental Health	Continuous improvement in the condition of our environment in all areas of the Shire.
Implemented the Erosion and Sediment Control Education Program.	Educated the construction industry working in the Ballina Shire about the need for and benefits of erosion and sediment control measures. Refreshed regulatory staff's knowledge on Council's Erosion and Sediment Control Enforcement Protocol. (June 2010)	Public and Environmental Health	Excellent water quality in the Richmond River and its tributaries.
Implemented the 'Our Lakes' community education project.	Education may reduce threats to the water quality in our coastal lakes i.e. litter, nutrients, pollution, weeds and dog droppings. (June 2010)	Public and Environmental Health	Excellent water quality in the Richmond River and its tributaries.
Implemented use of recycled paper, envelopes and business cards and soy based inks.	Saving on natural resource paper and also emissions by using soy based inks. (2011)	Corporate	Socially and environmentally responsible business.
Improve efficiency of air-conditioning in Customer Service Centre.	Reduction in energy usage. Better control over individual areas, can zone air-conditioning to suit needs. An audit and costings for this project have been undertaken. Grant funding was applied for but Council was unfortunately unsuccessful. Cost-benefit analysis has shown that improvement in lighting will benefit air-conditioning by removing lighting as a heat source, and that ongoing maintenance is the most effective aid to ensuring optimal efficiency in air-conditioning system.	Assets and Systems Manager	Effective and responsible power generation and use.
Install photovoltaic cells for a council building as a demonstration project.	Reduce coal fired power used. Chance to review technology ourselves. Develop business case for other buildings. (2010)	Built Assets	Effective and responsible power generation and use.
Install photovoltaic cells for a council building as a demonstration project.	Sites currently fitted with photovoltaic cells including the Ballina Library, the Waste Management Centre, the Kentwell and Lennox Head Community Centres and Alstonville Leisure and Entertainment Centre. (2010/11)	Built Assets	Effective and responsible power generation and use

Action	Benefits and Outcomes	Council Area	CSP Outcome
Install public recycling bins in town and village centres throughout shire.	Bins installed in June 2012. Some contamination issues. (2012)	Waste	Efficient production systems that minimise and reuse waste
Install public recycling bins in town and village centres.	Increase recycling rates and reduce drink containers etc going to landfill. Public recycling bins have been installed in all village centres. They are located adjacent to bins. Some problems with contamination due to a lack of understanding by users of what is recyclable and what is not.	Waste	Infrastructure and facilities that meet individual and community needs.
Install water efficient shower heads.	Reduced water use (both hot and cold). Reduced electricity use associated with heating and pumping of water. All showers and taps in Council operated buildings are fitted with flow restrictors. Water efficient hardware is replacing old hardware when and as required. Flow restrictors and water efficient shower heads have been installed at all Council operated caravan parks. Water efficient retrofits continue to be undertaken in all Council operated caravan parks.	Assets and Systems Manager	Effective water collection use and reuse.
Install workstation power isolation in Council Administration Building as required.	Staff can reduce standby power usage when workstation is not in use. Workstations in Corporate Services with multiple appliances that use standby power have been fitted with one main switch for each station.	Assets and Systems Manager	Effective and responsible power generation and use.
Internal environmental committee to integrate environmental projects between Council sectors.	Group no longer meets. (2011)	Strategic and Community Facilities	Continuous improvement in the condition of our environment in all areas of the Shire.
Introduced a power management protocol .e.g.a 'Switch Off' protocol for PCs, lights and other electrical appliances.	Reduced energy consumption and raised awareness amongst staff. Ensuring computers are switched off overnight will result in approximately 1/3 of the energy use than that of a computer left on. (2010)	IT	Effective and responsible power generation and use.
Introduction of electronic records management system.	A new electronic records management system has been implemented which is more compatible with Council's other database and software systems. This should reduce paper use and, over time, increase efficiency of service for ratepayers. (2012)	Corporate	Socially and environmentally responsible business
Investigate biochar – pyrolysis of organics to charcoal.	Reduction in amounts of organic waste to be handled. 'Sequester' carbon in biochar which can then be used to improve soil carbon. \$4.5 million in funding achieved through partnership submission to construct pyrolysis plant. Plant operational as at 2015. (June 2012)	Waste	Efficient production systems that minimise and reuse waste.
Investigate fuel saving technologies.	Identify technologies for application within Council's vehicle fleet that have the potential to deliver improved fuel efficiency. Ongoing investigations achieved through the criteria for the purchase of new vehicles and the sorts of fuel used for fleet.	Depot	Socially and environmentally responsible business.

Action	Benefits and Outcomes	Council Area	CSP Outcome
Investigate potential sites for the installation of alternative power generation e.g. wind & solar.	Public education and environmental leadership. Solar energy now utilised for Ballina Library, Lennox Head Community Centre, Alstonville Leisure and Entertainment Centre, Ballina's Waste Management Centre and Kentwell Community Centre.	Assets and Systems Manager	Effective and responsible power generation and use.
Liaise with industry and stakeholders to stop the burning of cane on site/research Queensland pathway to legislation on not burning cane.	Recommendation of Climate Ballina citizens forum. Richmond River Canegrowers are working toward this outcome, although operational difficulties with the milling of green cane as been a setback. Queensland cane is still burnt in areas, so this has not improved air quality as much as hoped. (December 2010)	Strategic and Community Facilities	Socially and environmentally responsible business.
Maintain internal environment team to integrate action for environmental sustainability between Council sectors.	An internal working group will provide a coordinated, integrated and innovative implementation of the environmental sustainability actions across the organisation. Internal working groups formed on an as needs basis to advance projects.		Socially and environmentally responsible business.
Participate in Bottled Water Alliance to reduce consumption of water packaged in plastic bottles.	Council is a signatory to the Alliance. Drinking water fountains are now installed at nine locations across the shire. (2011)	W&S	Efficient productions systems that minimise and reuse waste.
Participation in the Garage Sale Trail.	Support local community to consider alternatives to disposal of unwanted items. 148 garage sales held in March 2012, up from 130 the previous year.	Waste	Efficient production systems that minimise and reuse waste
Planted Tea-Tree in western paddock (Runway 06 undershoot).	Revegetation and bird hazard reduction. (2010)	Airport	Integrated land uses.
Promote EFT payments for creditors.	Saving on paper, reduction to costs. Extra payment options for creditors, including ratepayers. (February 2012)	Corporate	Socially and environmentally responsible business.
Protect prime agricultural land in the Shire.	Projection of prime agricultural land will ensure that land is available for food production (Climate Ballina recommendation). This was achieved in this shire by the NSW Government's declaration of the Alstonville Plateau as State Significant Farmland. (2010)	Strategic and Community Facilities	Maintain and improve our land based productivity.
Provide environmentally acceptable, off-road vehicles beach access while retaining beach amenity and safety for others.	Decrease in damage to beach environment by off-road vehicles and a harmonious sharing of the beaches and dunes of the Coastal Reserve. Beach access points finalised. Permit system in place. Brochure and Council website promote code of conduct. Requires maintenance, especially repairs after storm and high sea events.	Open Space and Reserves	Infrastructure and facilities that meet individual and community needs.
Provide recycling bins in the passenger terminal building at the airport.	Recycling bins are now located in the terminal building for drink containers and the like in both the check in and café areas. They reduce waste to landfill and provide visitors with a positive perception of Council and the community's approach to waste	Airport	Efficient production systems that minimise and reuse waste

Action	Benefits and Outcomes	Council Area	CSP Outcome
	management.(March 2012)		
Purchase computer hardware with lower wattage power supplies, and embrace alternative technologies such as high-speed solid state flash drives and cases made from organic materials as opposed to petro-chemical based products.	Reduction of the ecological footprint associated with computer hardware used by Council. See above action for implementation.	IT	Socially and environmentally responsible business.
Purchase computer hardware with lower wattage power supplies, and embrace alternative technologies.	Reduction of ecological footprint associated with hardware usage. New PC's purchased with lowest wattage available for required machine specification. Technology watch on other technologies such as solid state drives etc.	Information Services	Socially and environmentally responsible business.
Raised temperature of IT server room to higher end of optimal operating temperature range.	Higher ambient temperature means air conditioning is not working as hard therefore consuming less power. (2010)	IT	Effective and responsible power generation and use.
Rationalized the number of physical servers by moving to a virtual server environment where appropriate.	Reduced spend on server hardware and server room power consumption, both in terms of server power and room air conditioning costs. Raising of server room to higher end of optimal range. Improved business continuity outcome. Resource efficiency. (2010)	IT	Effective and responsible power generation and use.
Recycling of pavement.	Resource efficiency. Less 'new' material. (2010)	Engineering Works	Efficient production systems that minimise and reuse waste.
Reduce radiant heat of Council store by painting roof of shed with UV reflective paint.	Reduce comfort levels within Council store. Reduce need for air-conditioning in office area. Ensure store materials are not compromised by excessive heat. (2008)	Built Assets	Effective and responsible power generation and use
Reduced paper consumption by making staff newsletter electronic.	Saving on paper, reduction to costs. (2012)	Corporate	Socially and environmentally responsible business.
Reduced use of paper printed for audit purposes.	Saving on paper, reduction to costs. TRIM and Authority provide this functionality. (2011)	Corporate	Socially and environmentally responsible business.
REF for trial of Qx resistant oysters in the Richmond River.	Ensure environmental health protected from potential for pollution. Support local oyster industry. Trial complete. Awaiting final report from oyster growers.	Environmental Health	Socially and environmentally responsible business.

Action	Benefits and Outcomes	Council Area	CSP Outcome
Refine water, waste and energy data management and reporting to further enhance the identification of site specific abnormalities in account charges and energy use.	Provides clear and current information on which to base decision-making. Assists with SoE reporting, and accurate cost estimation etc. Energy data for all council sites is now collated and reported in a format that highlights any anomalies in use. Exploring options for the collation and reporting of water use data.	Assets and Systems Manager	Effective and responsible power generation and use.
Refine water, waste and energy data management reporting.	Compare against past performance and other structures of similar usage. Identify anomalies in use. (First begun 2009, completed meaning reporting in place for all assets to Council's satisfaction 2012.)	Built Assets.	Effective and responsible power generation and use.
Refit public lighting with energy efficient fittings.	Lighting refit complete. As at October 2012, awaiting Essential Energy's 'handover' of information to electricity retailer to ensure correct billing. (2012)	Built Assets	Effective and responsible power generation and use.
Refit public lighting with energy efficient fittings.	Use of high-pressure sodium and T5 fluorescent bulbs will significantly reduce energy consumption associated with public lighting Refit is now complete. Awaiting Essential Energy's 'handover' to Council's retailer to receive the full financial benefit of refit.	Assets and Systems Manager	Effective and responsible power generation and use
Replace Customer Service Centre storage hot water with gas instantaneous or solar heating systems.	Reduced electricity consumption. Cost found to be prohibitive for the amount of hot water used. Off peak found to be most efficient option for provision of hot water.	Assets and Systems Manager	Effective and responsible power generation and use.
Replace the Customer Service Centre storage hot water units with gas instantaneous or solar heating systems.	Cost prohibitive for the amount of hot water used. Off-peak water most efficient method based on usage patterns. (March 2012)	Built Assets	Effective and responsible power generation and use
Reuse of cleared vegetation.	Mulch and reuse of resources. (2009)	Engineering Works	Efficient production systems that minimise and reuse waste.
Review Council's internal DA distribution process to reduce paper.	Save on paper due to computerised referral. Introduction of new software is allowed electronic referral of development applications.	Development Application Review	Socially and environmentally responsible business.
Review existing Demand Management Measures in partnership with Rous Water.	This is a Rous Water function and has been devolved to their charter. (2010)	W&S	Effective water collection use and reuse.
Review of Environmental Factors for trial of disease resistance oysters in Richmond River.	Support local industry. (2011)	Public and Environmental Health	Excellent water quality in the Richmond River.
Reviewed Pedestrian and Mobility Plan to improve pedestrian network across shire.	Provide as much opportunity as possible for alternatives to motor vehicle transport. (2012)	Built Assets	Infrastructure and facilities that meet individual and community needs.

Action	Benefits and Outcomes	Council Area	CSP Outcome
Supply and maintenance of municipal garbage bins (replacement of lost, broken and damaged bins, lids, wheels, axles).	Simple to use garbage bin system, with appropriately maintained equipment. (Ongoing)	Waste	Efficient production systems that minimise and reuse waste
Trial of 360L recycling bins for residents (50% larger than now)	Improved environmental management and opportunities for recycling and reuse. (2012)	Waste	Efficient production systems that minimise and reuse waste
Undertake an environmental audit and hazard risk assessment of operations and facilities at the depot.	Ensure all WSH, environmental and compliance issues are met for chemicals etc stored. Quarterly audits undertaken. (2012)	Depot	Socially and environmentally responsible business
Undertake energy audits for Council's top energy using sites.	Audits for Council's Customer Service Centre and Depot are now complete and as of October 2012 a Council resolution is in place to replace lighting in both centres. Energy use monitoring is in place across Council's assets. (February 2012)	Built Assets	Effective and responsible power generation and use
Undertake public lighting audit.	Audit of street light infrastructure throughout the Shire, including lighting types, lighting location, energy use and maintenance regimes. (2009)	Built Assets	Effective and responsible power generation and use.
Update and adoption of Urban Stormwater Management Plan.	Plan adopted as at August 2012. Implementation schedule and budget adopted also.	Environmental Health	Socially and environmentally responsive business.
Update urban stormwater management plan.	Improve stormwater quality. Provide a schedule of works for future SQUIDS. (October 2012)	Engineering Works	Excellent water quality in the Richmond River.
Construction of Ballina-Lighthouse Surf Lifesaving Club	Function rooms and clubhouse is constructed using passive solar design reducing need for air-conditioning. Louvred screen on western side allows for adjustment of internal temperatures also. Energy efficient lighting installed, and heat pumps for heating. Plantation pine and recycled timber utilised in secondary structural elements to reduce carbon footprint of the build.	Commercial Services	Socially and environmentally responsible business
Worm farms and compost bins provided to the public to assist in diverting organics from landfill.	Assists with reducing organics going to landfill, provides social and community benefits. This program is ongoing. Reports on numbers provided will be updated in future years.	Waste	Efficient production systems that minimise waste.