

Activity or Service	Delivery Program Link	Targets	Key Actions 2013/2014	Current Status (July to Sept 2014)
<b>Conserve biodiversity and maintain natural ecosystems</b>	2.1 Natural Ecosystems, Biodiversity & Environmental Health	Minimum of two action plans to be reviewed.  Urban Bushland Plan of Management (UBPOM) implemented.	<ul style="list-style-type: none"> <li>Reserve Action Plans (RAPs) to be reviewed and relevant UBPOM actions to be implemented.</li> </ul>	<p>The revised UBPOM was adopted by Council.</p> <p>Watergate Reserve Action Plan was adopted by Council.</p> <p>The Natural Heritage and Bushland Advisory Committee inspected key areas of North Arm Reserve. Draft Reserve Action Plans were prepared for Willis Park and North Arm Reserve.</p>
<b>Protect and monitor creeks and waterways from stormwater runoff and improve water quality</b>	2.1 Natural Ecosystems, Biodiversity & Environmental Health	Stormwater outlet upgrades carried out as identified in RAPs.	<ul style="list-style-type: none"> <li>Implement stormwater outlets to bushland remediation project.</li> <li>Maintain remediated sites.</li> </ul>	<p>Drain stencilling was carried out in the Lane Cove River Catchment.</p> <p>Stormwater management and erosion control work was carried out in Flat Rock Gully.</p> <p>Armoured stormwater outlet maintenance and sediment removal was carried out in Mowbray Park and Coolaroo Reserve .</p>
<b>Improve the protection of foreshores, watercourses and bays</b>	2.1 Natural Ecosystems, Biodiversity & Environmental Health	All contract areas work to be maintained.	<ul style="list-style-type: none"> <li>Implement recommendations of Reserve Action Plans relating to waterways.</li> </ul>	<p>Foreshore regeneration was carried out along Swaines Creek in O.H. Reid Reserve adjacent to Chatswood Golf Course.</p> <p>Embankment stabilisation was carried out in Flat Rock Gully.</p> <p>Weed management at the foreshore cottages in Castlecrag Northern Escarpment Reserve was carried out in conjunction with manual fire hazard reduction.</p>
<b>Manage potential impacts of bushfires on natural ecosystems and development</b>	2.1 Natural Ecosystems, Biodiversity & Environmental Health	Burn plans implemented and site reports completed.  Liaison with Regional BFMC.	<ul style="list-style-type: none"> <li>Prepare bushfire hazard reduction and ecological burn plans in conjunction with Regional Bushfire Committee.</li> </ul>	<p>Grant funded manual hazard reduction was carried out by contractors at the eastern end of the Castlecrag Northern Escarpment where a Fire and Rescue NSW hazard reduction burn is proposed.</p> <p>Broad area burn maintenance was continued in Castlecrag Northern Escarpment, Clive Park and Explosives Reserve,.</p> <p>Burn preparation was completed in Northbridge Park and a new site prepared in Castlehaven Reserve.</p>
<b>Implement and promote environmental education programs</b>	2.1 Natural Ecosystems, Biodiversity & Environmental Health	Implement interpretive program with local community.	<ul style="list-style-type: none"> <li>Plan and coordinate interactive bushland educational activities.</li> <li>Schedule environmental events with community groups.</li> </ul>	<p>The Spring Interpretive Bushwalks program was compiled and distributed. A total of 726 people participated in bushwalks and related activities. There were 9 organised bushwalks, 3 group activities and 14 school activities comprising 312 students. The Wildlife Story Book received grant funding to be distributed to all councils in the Sydney Region.</p> <p>Tree Day and Fauna Fair activities attracted approximately 1800 participants.</p>

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<p><b>Promote community involvement in volunteer activities and promote bushland and environmental awareness</b></p>	<p>2.1 Natural Ecosystems, Biodiversity &amp; Environmental Health</p>	<p>Update Bushcare Action Plans for each site.</p> <p>Increased participation in volunteer activities.</p> <p>Increased use of bushland areas by local community.</p>	<ul style="list-style-type: none"> <li>• Maintain supervision and support for volunteers.</li> <li>• Improve and extend Bushcare sites.</li> <li>• Offer regular training to volunteers.</li> <li>• Promote Bushcare and volunteering at public events.</li> </ul>	<p>A grant from the Greater Sydney Local Land services was used to provide additional contract support for volunteer sites.</p> <p>All volunteer sites were supervised for work sessions.</p> <p>The propagation group continued to meet regularly at Warners Park.</p> <p>Spring edition of Bushcare News was distributed electronically and by post.</p> <p>Bushcare Major Day Out was held at Northbridge, with National TV coverage.</p>
<p><b>Implement sustainable plantings and habitat linkages in streetscapes and verges</b></p>	<p>1.3 Healthy Lifestyles &amp; Lifelong Learning</p>	<p>Landscaped road verges that are sustainable, prevent weed spread and improve habitat linkages.</p>	<ul style="list-style-type: none"> <li>• Continuing programs of repair and re-landscaping of verges using 'water-wise' plants and native species for wildlife corridors.</li> </ul>	<p>In-fill street tree plantings, were carried out in all Wards.</p> <p>Verge planting using indigenous shrubs and groundcover plants was carried out in conjunction with weed management by the Streetscapes team.</p>
<p><b>Climate change adaptation &amp; energy reduction</b></p>	<p>2.2 Sustainable Practises</p>	<p>Strive towards carbon neutrality after 2010.</p> <p>20% renewable energy for Council operations by 2020.</p>	<ul style="list-style-type: none"> <li>• Monitor carbon footprint.</li> <li>• Reduce consumption of electricity in Council buildings and streetlights and reduce consumption of vehicle fuel.</li> <li>• Investment in distributed energy systems including renewable and transition technologies.</li> </ul>	<p>Total electricity consumption in the July to September quarter was 2,241 MWh. The equivalent greenhouse gas emissions was 1,928 tonnes CO<sub>2</sub>-e which is a 2% increase from the same quarter last year.</p> <p>WCC has commissioned the Street Light Improvement Program to develop a business case to accelerate the replacement of all obsolete mercury vapour luminaires on residential, intermediate and main roads with the most efficient and reliable technology approved by Ausgrid. Approximate costs show the financial savings of this more efficient technology will result a 1 to 4 year simple payback period on Council's upfront costs, depending on the level of rebate by the NSW Energy Saving Scheme.</p> <p>Council is committed to meeting its target to source 20% of electricity from renewable sources by 2020. WCC has been successful in obtaining funding from NSROC Councils for a report that will identify opportunities to generate renewable energy on a regional level.</p>

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			<ul style="list-style-type: none"> <li>Climate change risk assessment and adaptation plan development.</li> </ul>	<p>Council is currently reviewing impacts and recommendations in the Climate Change Risk Assessment – Adaptation Report. Adaptation actions were incorporated, where possible, into the Operational Plan and aligning actions and timelines with Council’s Asset Management Plans. Adaptation principles have been incorporated across Council’s Integrated Planning documents.</p> <p>Community climate change adaptation education, engagement and capacity building actions and projects are in development in collaboration with other sections of Council and external organisations, such as the NSW SES, NSW Health and NSW Police. Council representatives assisted the Sydney Coastal Councils Group to develop an emergency management health check tool.</p> <p>Council representative visited local community groups including English conversation classes at Chatswood library and a local knitting group to discuss extreme heat dangers and how to ‘beat the heat’.</p>
<p><b>Reduce community carbon footprint by 15% by 2015</b></p>	<p>2.2 Sustainable Practises</p>	<p>Reduce Willoughby City’s community carbon footprint by 15% by 2015.</p>	<ul style="list-style-type: none"> <li>Reduce community carbon footprint through education campaign.</li> </ul>	<p>The ClimateClever education campaign is well received by residents and continues to offer practical workshops and information to assist the community in taking action to reduce their footprint.</p> <p>Council hosted ‘The Population Conversation’ with around 70 people in attendance to hear Dr Keith Suter, Dr Paul Collins and Council’s Environmental Services Director discuss global and local population issues, the world’s carrying capacity, scenario planning and staying positive about the future.</p>
			<ul style="list-style-type: none"> <li>Reduce the community’s electricity consumption.</li> </ul>	<p>Residential electricity demand continues to decline. Between the baseline year of 2006/2007 and the current period of 2013/2014 it has reduced by a staggering 18.6%. Non-residential (small and large businesses) consumption is also exhibiting good reductions, dropping by 9.8% since 2006/07. The overall reduction has been 12.4% which is well on our way to the 15% reduction target.</p> <p>It is also pleasing to note that current demand per person per day has decreased by 15.9% since 2006/07 from 19.5kWh to 15.1kWh per customer per day.</p> <p>Council is encouraging owners and managers of unit blocks to participate in the Australia-wide SmartBlocks program to help identify, choose, incorporate and measure energy saving initiatives.</p>

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				Council delivered an energy efficient lighting workshop for apartment buildings for 23 interested building managers, strata corporations and owners. Council is researching programs to help apartments implement lighting efficient measures into their blocks.
			<ul style="list-style-type: none"> <li>Increase in renewable energy technologies.</li> </ul>	Rooftop solar generation exported to the grid has increased to 2,335MWh in 2013/2014. This is an increase of 10% on the previous year, or a 60% increase since 2010/2011.
			<ul style="list-style-type: none"> <li>Implement the Sustainability Action Plan and related programs.</li> </ul>	The revised Sustainability Action Plan for 2014-2018 was adopted by Council on 8 <sup>th</sup> September 2014. A copy of the new SAP can be found on Councils website.
<b>Sustainable transport</b> Includes: <ul style="list-style-type: none"> <li>Artarmon Loop shuttle bus</li> <li>CouncilCab</li> <li>Active transport management</li> </ul>	2.2 Sustainable Practises	Increased utilisation of more sustainable modes such as active and public transport.  Increased awareness within the community of sustainable transport.  Improved infrastructure and facilities for sustainable transport.	<ul style="list-style-type: none"> <li>Expand and monitor the Artarmon Loop service.</li> </ul>	During the last quarter, the average weekly number of passengers is 3716.
			<ul style="list-style-type: none"> <li>Trial pilot shuttle bus program to include other suburbs where highest need has been identified.</li> </ul>	Patronage for this period has been approximately 310 per week/ This is an increase on patronage of approximately 25 passengers per week compared with this time last year  The Chatswood to Northbridge route continues to carry the highest number of weekly passengers (Av. 155 / week).
			<ul style="list-style-type: none"> <li>Promote services to the community, including educational activities, workshops and events.</li> </ul>	Five bicycle skills workshops were held in this quarter most were in conjunction with Bike Week. Council also held a Pedal for Art cycling tour of artistic highlights in conjunction with North Sydney and Lane Cove Council's. Two "Everyday i" cycling promotion were also held
			<ul style="list-style-type: none"> <li>Work with the State Government to improve sustainable transport options.</li> </ul>	Willoughby City Council completed five sustainable transport related projects which were funded by RMS in 2013/14. Council has received funding in an amount of \$78,000 for another three bicycle projects this financial year. Works are currently in the planning stage.
			<ul style="list-style-type: none"> <li>Continue CouncilCab service.</li> </ul>	During the last quarter, CouncilCab has transported 847 passengers, that is approximately 282 passengers per month. This is slightly down on this time last year.

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<p><b>Water efficiency in Council and the community</b></p>	<p>2.2 Sustainable Practises</p>	<p>Reduce consumption of potable water by 25% by 2013 based on 2003 levels.</p> <p>Overall reduction in the total consumption of potable water by the community.</p>	<ul style="list-style-type: none"> <li>Reduced consumption of potable water by Council and the LGA.</li> </ul>	<p>28,938kL of water was consumed by Council in this quarter. This compares with 33,531kL for the same quarter in the previous year, a decrease of 14%.</p> <p>Community water consumption data for 2013/2014 was 8,431,895 which is a 4.5% increase from the previous year. In 2012/2013 the average water consumption for a households and units in the Willoughby LGA was 240kL and 169kL respectively. In comparison an average house and unit in Sydney consumed 230kL and 162kL respectively in the same year.</p> <p>Water Wise in Willoughby was launched in June and provides an online 'step-by-step' guide to saving water, including monitoring water usage and potential leaks through billing data or with Council's water monitoring equipment, auditing building's common areas and education resources. A number of enquiries have been fielded, and one apartment block provided assistance with Council's monitoring equipment. A \$5,000/year leak was identified and recommendations to source the leak were provided.</p> <p>Better Business Partnership (BBP), a joint shared Council service with Ku-ring-gai, Lane Cove, North Sydney Councils work with local business to improve their sustainability performance. A key area considered when working with business is water saving. Business are recognised and rewarded for actions they have undertaken to reduce their usage of drinking water within their business.</p>
			<ul style="list-style-type: none"> <li>Council becomes a leader of water management.</li> </ul>	<p>A local consultancy, Optimal Stormwater, is finalising the design of a stormwater harvesting and reuse scheme at Artarmon Reserve.</p>
			<ul style="list-style-type: none"> <li>Increase awareness of Council's water savings initiatives.</li> </ul>	<p>Council's water saving initiatives have been integrated into the sustainability education display in Chatswood Library on The Concourse.</p>
			<ul style="list-style-type: none"> <li>Increase the number of rainwater tanks installed on Council's buildings.</li> </ul>	<p>Council is installing a rainwater tank at Willoughby's Mens Shed.</p>
			<ul style="list-style-type: none"> <li>Increase the volume of water being harvested and/or recycled by the</li> </ul>	<p>The sustainability education campaign, continues to encourage the community to install rainwater tanks.</p> <p>Better Business Partnership works with businesses to encourage them to</p>

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			community.	reduce their dependence of drinking water where possible by harvesting rainwater and recycling water where appropriate. BBP will provide its Wayer Saver Service free of charge to 16 businesses during 2014/15 who through BBP's Appraisal Service have been identified that they would benefit from specialist assistance to save money and water.
<b>Water quality in local waterways</b>	2.1 Natural Ecosystems, Biodiversity & Environmental Health	Monitor water quality in local waterways.	<ul style="list-style-type: none"> <li>Monitor local water quality. Test chemical and biological parameters on a quarterly basis and conduct macro-invertebrate identification on a seasonal basis in autumn and spring.</li> </ul>	Water quality monitoring is continuing with Sydney Water Corporation (SWC) undertaking sampling and monitoring for 2014/15. The latest sampling was undertaken in October 2014 and results are compared with the ANZECC Guidelines for Fresh and Marine Water Quality (2000).
			<ul style="list-style-type: none"> <li>Prevent and manage the impact of spills.</li> </ul>	An Environmental Incident Response Manual has been implemented which provides information to Council staff on how to deal with spills. No major spills have been reported this quarter.
<b>Reduce air pollution and greenhouse gases</b>	2.2 Sustainable Practises	Continuous ambient air quality monitoring at Mowbray Public School.	<ul style="list-style-type: none"> <li>Monitor and report on local air quality.</li> </ul>	Monitoring at Mowbray Public School was decommissioned in June 2014. Investigations are underway in relocating the air quality monitoring equipment to a site in Artarmon.
			<ul style="list-style-type: none"> <li>Improve fleet efficiency.</li> </ul>	Emissions from Council's total fuel consumption for this quarter were 207 tonnes CO <sub>2</sub> -e. This is up 2% from the same quarter in the previous year.
			<ul style="list-style-type: none"> <li>Identify significant contributors to local air pollution.</li> </ul>	SLR Consulting have performed a data analysis for the purpose of examining whether the air quality monitoring performed at Mowbray Public School offers significantly different data. The analysis concluded that the data is broadly similar to the EPA air quality monitoring sites at Rozelle and Lindfield.  A review of the National Pollution Index data demonstrates that within the Artarmon area, apart from motor vehicles being the highest contributor of air pollution, metal manufacturing is the second largest source. SLR have provided options in relocating the air quality monitoring station to a suitable location in the Artarmon precinct.
<b>Manage environmental noise</b>	2.1 Natural Ecosystems,	Minimise the potential for noise.	<ul style="list-style-type: none"> <li>Monitor, report and resolve complaints on</li> </ul>	Approximately 75 complaints relating to noise pollution were received by Council's compliance team and all were investigated with some requiring

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	Biodiversity & Environmental Health		<p>local noise incidents.</p> <ul style="list-style-type: none"> <li>Minimise potential for noise through DA process.</li> </ul>	<p>monitoring. All were satisfactorily resolved.</p> <p>Proposed activities and development of land that has the potential to increase background noise levels were reviewed, and conditions of consent were recommended which set noise limits, provide controls for attenuation and provide operational conditions to minimise noise.</p> <p>DAs received in this period with potential to cause offensive noise included high rise mixed use development, additions to primary school, childcare, 24hr gym and café trading hours. Acoustic reports submitted are assessed to ensure any potential noise impact is minimised.</p>
<b>Sustainable buildings</b>	2.2 Sustainable Practises	<p>Sustainable retrofit of all Council buildings.</p> <p>Best practice measures incorporated into planning documents.</p> <p>New developments encouraged to obtain green star rating from the Green Building Council Australia (GBCA).</p>	<ul style="list-style-type: none"> <li>Integration of best practice into new developments and encourage retrofitting of existing buildings.</li> </ul>	<p>The depot building management system was upgraded to activate 44 energy and water meters. This will assist Council undertake the most appropriate energy and water efficiency projects in this building.</p> <p>In September, Council delivered an energy efficient lighting workshop for apartment buildings with 23 attendees.</p>
			<ul style="list-style-type: none"> <li>Develop an education program for residents and developers.</li> </ul>	<p>A wealth of sustainable building information material is available at Willoughby's Help and Service Centre, situated next to the planning inquiry section.</p>
			<ul style="list-style-type: none"> <li>Strengthen planning requirements for new developments.</li> </ul>	<p>Council provided a submission to the NSW Planning and Infrastructure Department in relation to proposed changes to the Building Sustainability Index (BASIX). A response from the State Government has not yet been received.</p>
<b>Sustainable business</b>	5.1 Local Business & Industry	<p>Increase the number of businesses signing up to CitySwitch Green Office, Sustainability Advantage and the Better Business Partnership.</p>	<ul style="list-style-type: none"> <li>Increase implementation of sustainable practices by local business and industry.</li> </ul>	<p>During this quarter the Better Business Partnership (BBP), a joint shared Council service with Ku-ring-gai, Lane Cove, North Sydney Councils achieved the following results across the joint Council area:</p> <ul style="list-style-type: none"> <li>Recruited 141 new member businesses and undertook 105 face-to-face sustainability appraisals with business operators.</li> <li>Delivered 186 BBP Waste Saver Services identifying over 11,260,718 litres in waste that can be diverted from landfill by participating businesses.</li> <li>Undertook 1305 interactions (emails, calls and visits) with existing members assisting them to implement actions.</li> <li>Launched its new Better Business Talks series "Get the Local Edge" a</li> </ul>

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				<p>delivered th fist instalment in this event series in four (4) villages across the North Shore including Artarmon.</p> <p>With three additional signups this quarter, seventeen local companies are currently signed up for the national CitySwitch Green Office program.</p>
			<ul style="list-style-type: none"> <li>Increase implementation of energy efficiency measures.</li> </ul>	<p>Better Business Partnership (BBP) has launched it's new Energy Saver Service and will be offering this to 40 local member in 2014/15 businesses The first 20 businesses have been identified that would benefit from receiving this service as they are motivated to save energy and money. These businesses will receive their assesment in November 2014.</p>
			<ul style="list-style-type: none"> <li>Provide assistance to businesses to access funding for tools and equipment.</li> </ul>	<p>BBP continues to provide business owners with a 'one-stop-shop' for sustainability advice and assistance.</p> <p>In May 2014 BBP was appointed as a gratee of the NSW Governments Environmental Protection Authorities Bin Trim Program. This provides BBP with financial assistance to deliver its Waste Saver Service and support access to the small scale waste infrastructure funding which is now available.</p>
<p><b>Sustainability education</b></p>	<p>6.2 Community Engagement</p>	<p>Increased behavioural change towards sustainability and adaptation to climate change.</p>	<ul style="list-style-type: none"> <li>Increase community's skills in, knowledge about and motivation for sustainability.</li> </ul>	<p>The sustainability education strategy is being reviewed and external consultants Republic of Everyone are developing the program framework in consultation with staff. Market research commenced in July and more than 200 residents responded to a survey asking "What Willoughby Wants". The information gathered will assist in developing a new sustainability education campaign to be launched in early 2015.</p> <p>Better Business Partnership continues to deliver its ShopBetter community awareness campaign across the joint Council program area. During this quarter a flyer explaining the benefits of shopping locally with businesses working towards sustainability was distributed to all Willoughby ratepayers.</p>
			<ul style="list-style-type: none"> <li>Develop education program for CALD community.</li> </ul>	<p>154 people from seven MOSAIC groups including Chinese, Italian, Japanese, Korean, Malaysian/Singaporean and Taiwanese attended the information sessions delivered in partnership with the Energy Water Ombudsman NSW with interpreters. The focus was on energy and water saving tips, consumer rights, complaint mechanism and related rebates.</p>

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			<ul style="list-style-type: none"> <li>ClimateClever education strategy implemented.</li> <li>Expand partnerships and networks internally and externally.</li> </ul>	<p>During this quarter, the following workshops and events were held:</p> <ul style="list-style-type: none"> <li>Sustainable Population (70 attendees)</li> <li>Fix it (4 attendees)</li> <li>Fauna Fair</li> <li>Street Fair</li> <li>Sustainable House Day stall at Artarmon Bunnings</li> <li>Lighting Efficiency Workshop for Apartments (23 attendees)</li> <li>Farm Gate Tour (15 attendees)</li> <li>Waste to Art presentation (20 attendees)</li> <li>Sustainable Working Group Meeting (30 attendees)</li> <li>Assisted with the organisation of Gleneon on Schools visit to The Concourse (25 attendees)</li> </ul> <p>The Northern Sydney Environmental Educators Network (NSEEN) meeting was held in Mosman on 19 August.</p> <p>The Sustainability Reference Group held a meeting on 10 June discussing topics, including Council’s sustainability initiatives progress, promoting Council and community sustainability success stories with the community and sustainable food issues.</p> <p>The Teachers Environmental Network was held in August and incorporated a presentation from a native bee expert. There were 15 participants.</p> <p>The staff Sustainability Working Group met in September for a presentation on Lunchbox Inspirations with a ‘reduce food waste’ message.</p> <p>Council representative continues to attend the Sydney Coastal Councils Group Technical Committee meeting to discuss local and regional sustainability and coastal issues.</p> <p>The Better Business Partnership continues to maintain and develop its relationship with local business chambers and networks. As part of the Better Business Talks Series – Get the local edge, BBP has partnered with Artarmon Village Incorporated to deliver the event series in a vacant “pop-up” shop in the heart of Artarmon.</p>

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			<ul style="list-style-type: none"> <li>Explore sustainable food choices.</li> </ul>	<p>The Love Food Hate Waste online platform, launched in February (the Food Lovers' Republic) is a continuing program that has 97 participants to date. The platform is a joint initiative with Hornsby Council and Botany Council has recently come on-board. The additional funds will be used to review the platform and improve the site.</p> <p>The Ready, Set, Grow program is in its second year. The program is aimed at encouraging and supporting the creation of sustainable school fruit and vegetable gardens and is a regional program in partnership with the NSW Department of Health. Mowbray Public School and the Chatswood Intensive English Centre are in their second year of the program and Chatswood and Artarmon Public Schools commenced at the beginning of 2014.</p> <p>The September Farm Gate Tour was attended by 15 residents.</p>