

APPENDIX

**ADELAIDE
AIRPORT
SUSTAINABILITY
PAST
ACHIEVEMENTS
(2009-2014)**



Adelaide Airport Sustainability Past Achievements (2009-2014)

Area	Achievement
Sustainable Performance	Key sustainability principles incorporated into the design and construction of the multi-deck short term car park including use of recycled water for toilet flushing and irrigation, LED lighting systems, smart way-finding system to minimise vehicle running time, and collection of roof stormwater for use in the Terminal 1 cooling towers.
	A 4.5 star NABERS-rated office complex was constructed in 2013 to house the Australian Federal Police.
	A state-of-the-art steel fabrication facility was constructed in 2011 to house Manuele Engineering.
	The largest single Australian runway and taxiway overlay project was successfully completed in 2011 with no noise or environmental complaints or incidents. AAL was awarded the Australian Airports Association Capital City Airport of the Year in 2011 on the strength of the project's successful technical, financial, safety and environmental performance.
	Sustainability Performance indicators were established in 2013 for greenhouse gas emissions, energy, water and waste. Monitoring data was collected to determine progress against goals set in the 2009 Sustainability Plan.
Management Framework	Ecologically Sustainable Design Principles incorporated into the Development Design Guidelines for various airport projects and development precincts of the airport site.
	AAL's Sustainability Policy was reviewed and updated in 2011 to reflect AAL's evolving strategic direction.
	AAL revised its vision and mission and generated a new strategic business plan in 2012 through a process involving extensive internal and external consultation. A commitment to sustainability was embedded at all levels of the strategic framework.
	The AAL risk management program was overhauled in 2012-13, involving the procurement and roll out of dedicated risk software. AAL's risk register was updated with an updated list of environmental aspects and impacts for which each was assigned a risk rating and risk controls.
	All environmental policies and procedures were updated for currency within an EMS that conforms to the requirements of ISO14001.
	A sophisticated database was maintained and updated to house the Site Environment Register for Adelaide Airport, offering immediate staff access to environmental information (e.g. hazardous substances storage, environment reports, and tenant details) for each area of the airport.
	A spatial data management and mapping (GIS) tool was maintained and updated for storing and displaying critical environmental data sets (e.g. underground storage tanks, groundwater wells, stormwater monitoring sites, and contaminated sites).
	The Airport Environmental Management Plan (EMP) Guidelines for Tenants was updated and distributed to all tenants supported by training sessions to help boost understanding of EMP development and integration into business practices.
	The Airport Spray Painting Guidelines were released to relevant tenants with the aim of setting a consistent standard for spray painting, particularly for airframe maintenance.
	An Airport Tenant Environment Group was run from 2009-2013 to provide an open forum for discussing and sharing approaches on environmental issues.
	AAL's newsletter, <i>Plane Talking</i> , was published and distributed quarterly and contained an environment section which was a frontline vehicle for communicating environmental sustainability issues to airport stakeholders, including tenants.
	An environmental inspection program of high risk tenants and construction sites was conducted annually.
	A comprehensive set of guidelines covering a number of significant environmental issues, including asbestos management, water conservation, energy conservation, and green procurement, was developed in 2012 and made available to tenants. A seminar series was subsequently held for tenants to provide an alternative method of communicating the content of each of the guidelines.

Area	Achievement
Climate Change	<p data-bbox="368 524 1410 651">In 2013, AAL was the first Australian airport to be awarded Airports Council International accreditation to Level 1 of the Airport Carbon Accreditation scheme. This scheme sets the benchmark internationally for airports and demonstrates the high degree of rigour and accuracy by AAL to measuring the organisation's carbon footprint.</p> <p data-bbox="368 667 1418 761">Scope 3 emissions were calculated by AAL for the first time in 2011 and provide a benchmark for future assessment of emissions trends relating to third party activity, including aircraft movements by airlines, commuting by airport visitors, and vehicle use by aviation-related tenants.</p> <p data-bbox="368 777 1402 837">A detailed flood modelling assessment of Adelaide Airport was completed in 2012. This assessment is to be used in the development of a climate change adaptation study scheduled for 2014.</p> <p data-bbox="368 853 1434 947">A new expanded public bus facility was constructed adjacent to multi-deck short term car park as part of Landside Infrastructure Project in 2013. An additional bus stop was also constructed on James Schofield Drive. Both projects improve staff and visitor access to public transport at the airport.</p>
Energy	<p data-bbox="368 960 1434 1055">An Energy Action Plan was implemented for Terminal 1 based on the findings of the Level 2 Energy Audit. Actions included lighting upgrades, changes to lighting control settings, and the installation of variable speed drives on all gate lounge air handling units.</p> <p data-bbox="368 1070 1414 1227">A three-year partnership was established with the University of Adelaide's Centre for Energy Technology with a view to bring a research focus to AAL's energy reduction program and establish Adelaide Airport as a leader in the clean energy space. Projects undertaken include the development of a detailed thermodynamic model of Terminal 1, assessment of the heating, cooling and ventilation system with recommendations for energy savings, and analysis of the Building Management System.</p> <p data-bbox="368 1243 1370 1368">A multidisciplinary staff working group, supported by the University of Adelaide, was established in 2013 tasked with researching and developing business cases for energy saving projects across the AAL business. The group will continue to work into 2014 and beyond to implement these projects whilst developing a comprehensive Carbon Management Plan for Adelaide Airport.</p> <p data-bbox="368 1384 1382 1413">The AAL electricity retail contract for the past 3 years included a 10% renewable energy component.</p> <p data-bbox="368 1429 1350 1489">Electricity and natural gas data was collated for assessing trends and inclusion in the AAL carbon footprint calculations.</p> <p data-bbox="368 1505 1362 1565">Fuel consumption data for AAL vehicles was collated for assessing trends and inclusion in the AAL carbon footprint calculations.</p> <p data-bbox="368 1581 1362 1641">Comprehensive wind monitoring and modelling was undertaken to identify prospective sites where wind turbines may be practical at Adelaide Airport.</p>

Adelaide Airport Sustainability Past Achievements (2009-2014)

Area	Achievement
Water Resources	A 400ML Airport Stormwater Harvesting Scheme was constructed by SA Water on the southern side of the airport in 2013. This scheme will supply the airport with treated stormwater within 5 years.
	A 2ML stormwater harvesting scheme was constructed in 2013 as part of the Landside Infrastructure Project to capture water from the short-term car park roof and supply the cooling towers in Terminal 1.
	A state-of-the-art steel fabrication facility was constructed in 2011 to house Manuele Engineering.
	The Glenelg to Adelaide Pipeline, carrying recycled water from the Glenelg Wastewater Treatment Plant to the CBD, was constructed through Adelaide Airport land in 2008/2009. AAL negotiated additional take-off points to supply recycled water to future developments in the southern and eastern airport Precincts. AAL re-negotiated the recycled water supply agreement with SA Water to include these new take-off points as well as three extra points along the existing pipeline to supply commercial and recreational development in the western and northern airport Precincts in the future.
	Connection to the recycled water network occurred in 2012 to supply the irrigation system supporting landscaping on the Netley mound on the eastern airport boundary.
	Connection to the recycled water network was made to supply the expanded landscaped areas constructed as part of the Landside Infrastructure Project in 2013.
	Recycled water connections to be made to a toilet block and water feature in the Terminal 1 pedestrian plaza in 2014.
	The Irrigation Management Plan – for those areas irrigated with recycled water sourced from the Glenelg Wastewater Treatment Plant – was revised and independently verified in accordance with SA EPA guidelines.
	Monthly potable water monitoring of the aerobridge reticulated supply system undertaken to demonstrate that water quality met accepted health criteria.
Noise	Less than 5 complaints per year (on average) received from the community by relating to ground-based noise.
	Regular noise monitoring events were conducted at the nearest residential properties demonstrating that noise generated from ground-based activities at Adelaide Airport were within State and Commonwealth regulatory limits.
	AAL conducted several acoustic surveys of Export Park commercial activity demonstrating that night-time levels were within Commonwealth and State regulatory limits.
	All ground-based noise events where complaints were received were followed up with no breaches of the AAL Ground Running Policy reported. Details of noise complaints and follow up by AAL were provided to the Airport Environment Officer for review.
	An aircraft noise fact sheet was developed and posted on the Adelaide Airport website.
	An Airport Tenant Environment Group was run from 2009-2013 to provide an open forum for discussing and sharing approaches on environmental issues.
	AAL's newsletter, <i>Plane Talking</i> , was published and distributed quarterly and contained an environment section which was a frontline vehicle for communicating environmental sustainability issues to airport stakeholders, including tenants.
	An environmental inspection program of high risk tenants and construction sites was conducted annually.
	A comprehensive set of guidelines covering a number of significant environmental issues, including asbestos management, water conservation, energy conservation, and green procurement, was developed in 2012 and made available to tenants. A seminar series was subsequently held for tenants to provide an alternative method of communicating the content of each of the guidelines.

Area	Achievement
Waste	<p data-bbox="363 528 1374 595">Construction rubble, scrap metal, plastics, computing equipment, paper/cardboard, waste oils and green waste generated by AAL activities were reused or recycled.</p> <p data-bbox="363 607 1430 707">A Waste Management Strategy for Terminal 1 was developed in 2009 in consultation with staff, tenants and cleaning contractors for implementation between 2009 and 2013. The Waste Management Strategy has since been revised in late-2013 to drive the next phase of waste management.</p> <p data-bbox="363 719 1385 786">A comprehensive audit of all waste from Terminal 1 was conducted in 2009 to inform the new Waste Management Strategy.</p> <p data-bbox="363 797 1425 887">A public space recycling system was installed across Terminal 1 in 2010. New 3-bin waste units were installed at each gate and through the main concourse. Paper, cardboard, comingled and general waste is being separated resulting in a reduction in waste to landfill.</p> <p data-bbox="363 898 1342 931">A trial for the collection of waste food for offsite organics composting commenced in T1 in 2014.</p> <p data-bbox="363 943 1437 1010">In 2014, installation of a two-bin comingled and general waste unit intended within the multi-level car park and adjoining plaza area.</p> <p data-bbox="363 1021 1409 1088">A marketing program was run in 2013 involving the distribution of reusable coffee cups to staff, tenants and other stakeholders for use in Terminal 1.</p> <p data-bbox="363 1099 1350 1200">AAL sought waste management plans from high risk tenants (with respect to wildlife attraction), specifying waste streams and management actions aimed at reducing Foreign Object Debris and the likelihood of attracting wildlife to the airport environs.</p> <p data-bbox="363 1211 1417 1301">The AAL Asbestos Register was updated annually by a licensed contractor and a removal program of asbestos-containing materials undertaken. Buildings and a perimeter fence containing a high proportion of asbestos-containing materials were demolished in AAL's goal to become an asbestos-free airport.</p> <p data-bbox="363 1312 1385 1379">Paper towel waste was eliminated in Terminal 1 in 2011 with the installation of energy efficient Dyson hand dryers in all public toilets.</p>
Stormwater	<p data-bbox="363 1391 1385 1480">Permanent stormwater sampling and monitoring stations were installed at the exit of the two main internal airport catchments to allow representative composite sampling, flow monitoring and physical parameter testing.</p> <p data-bbox="363 1491 1433 1592">An annual stormwater monitoring program was conducted at Adelaide Airport. Key stormwater quality parameters were measured at concentrations within regulatory limits and overall samples were equivalent to that reported for the local Brownhill and Keswick Creek urban catchments.</p> <p data-bbox="363 1603 1254 1637">AAL maintained a Spills Register, containing a record of all hazardous substances spills.</p> <p data-bbox="363 1648 1342 1682">AAL maintained a Spill Kit Register, containing a map and updated record of all spill kit contents.</p> <p data-bbox="363 1693 1422 1794">Stormwater pollution control devices incorporated into the design of several new commercial developments including Manuele steel fabrication complex in the Morphett Precinct and Boart Longyear in Burbridge Business Park.</p> <p data-bbox="363 1805 1374 1872">A SQMIP was developed in 2012 and is being implemented. The Plan incorporates index of stream condition assessment and reporting for the airport internal vegetated drainage network.</p>

Adelaide Airport Sustainability Past Achievements (2009-2014)

Area	Achievement
Soil and Groundwater	Environmental site assessments and groundwater monitoring events were undertaken at various sites across the airport triggered by changes to lease arrangements, risk of contamination, or the presence of recent/historic contamination.
	JOSF Operators continued implementation of a groundwater monitoring and management program in consultation with AAL and the Airport Environment Officer.
	An Environmental Management Plan for operation of the JUHI was regularly reviewed and updated.
	A Major Spill Response Station was maintained landside and a Spill Response Trailer was stationed airside for rapid deployment of spill clean-up equipment and materials.
	AAL hosted spill response training sessions for all ramp and airline staff.
	AAL developed a series of groundwater contaminant triggers in 2013, documented within a Groundwater Monitoring Strategy, for analytes requiring additional investigation if exceeded. These triggers are being adopted from 2013 to inform AAL's approach in future to contaminated sites across the airport.
	The airport's Contaminated Site Management Plan was reviewed and updated annually.
Land and Heritage Management	The PCCZ was silt fenced and replanted with native groundcovers and shrubs using local provenance.
	Interpretive signage installed at the entrance to the PCCZ providing an overview of natural, indigenous and European heritage of the area and following consultation with the local Kaurna community to provide accurate translation of local significant flora and fauna.
	An updated PCCZ Revegetation Plan was finalised in 2008. This plan provides a holistic map for all future revegetation and management activities and includes a planting calendar to 2018.
	Conservation Volunteers Australia members collected seed on Airport land, which was then propagated by volunteers in the AAL Nursery. The AAL Nursery produced approximately 1,000 seedlings annually which were planted during winter in the PCCZ.
	Conservation Volunteers Australia and Friends of Patawalonga Creek maintained a regular ongoing presence at the PCCZ carrying out maintenance activities, particularly of National and School Tree Day planting sites, including weeding, planting, tree guarding, seed collection and rubbish removal. Due to this concerted effort, artichoke thistle, ash trees and invasive sheoaks have been eliminated from the site.
	Planet Ark Schools Tree Day was hosted each year in winter by AAL at the PCCZ, attracting around 100 enthusiastic primary school students annually from local schools and colleges. The event was coordinated by Conservation Volunteers Australia, Friends of Patawalonga Creek and AAL. Over 2,000 seedlings were planted between 2009 and 2014.
	Planet Ark National Tree Day was hosted each year in winter by AAL at the PCCZ, attracting up to 150 volunteers annually. The event was coordinated by Conservation Volunteers Australia, Friends of Patawalonga Creek, Rotary and AAL. Over 10,000 seedlings were planted between 2009 and 2014.
	Vegetation surveys were carried in Airport East and Morphett Precincts to support appropriate management of any rare or vulnerable species consistent with a zero net loss outcome associated with future developments.
	Areas of remnant vegetation located at the southern side of the airfield were bunted and protected from vehicle and pedestrian access.
	An acoustic mound on the southern boundary of the Airport East Precinct adjacent Watson Avenue, Netley, was maintained, weeded and revegetated with replacement plants.
	The Adelaide Airport Landscaping Guidelines were revised and distributed in 2009, providing stakeholders with a more detailed and holistic view of AAL's requirements for species selection, drainage, irrigation, water features, and amenity value.

Area	Achievement
	<p>Consultation held with the City of West Torrens to ensure that the stormwater detention basin (to accept flood waters from West Beach) was constructed with minimal impact to the construction site and the PCCZ relative to flora and fauna.</p> <p>AAL was awarded the AAA Capital City Airport of the Year in 2009 on the strength of its wildlife hazard management program and contribution to the Australian airports industry generally in the area of best practice wildlife management.</p> <p>AAL's wildlife data management system was overhauled to provide staff and stakeholders with detailed wildlife species trend data and analysis on a quarterly and annual basis.</p> <p>Wildlife Management Committee meetings were held quarterly, with continued input from specialist ornithologist, Associate Professor David Paton.</p> <p>The Bird Risk Assessment updated to provide a priority risk ranking to all species encountered.</p> <p>A quick reference wildlife management booklet of priority bird species was developed for AAL staff and Adelaide Airport stakeholders.</p> <p>An invertebrate and flora monitoring program was completed for a cross-section of habitats within the airside environment at Adelaide Airport and analysed by the University of Adelaide to identify any correlations between vegetation assemblage, invertebrate populations and bird attraction.</p> <p>AAL commenced the process of identifying high risk off-airport land uses within the 3 kilometres, 8 kilometres and 13 kilometres Wildlife Risk Management Zones for Adelaide Airport, as well as Parafield Airport, and also in partnership with RAAF Edinburgh, thereby encompassing all of metropolitan Adelaide. This will allow collaboration with local Councils and other land owners/managers to minimise bird strike risk.</p> <p>Liaison held with the South Australian Homing Pigeon Association to increase stakeholder awareness and understanding of bird strike risk. A fact sheet was developed for Association members and other homing pigeon owners.</p> <p>Communication undertaken annually with local Councils and golf courses to encourage a coordinated spring fox culling program.</p> <p>An assessment and maintenance program for the Vickers Vimy aircraft was implemented from 2009.</p> <p>Consultation held with the City of West Torrens to ensure that the stormwater detention basin (to accept flood waters from West Beach) was constructed with minimal impact to the construction site and the PCCZ relative to flora and fauna.</p>
Local Air Quality	<p>A comprehensive local air quality model was developed in 2013 for Adelaide Airport – scoped to include ground-based and aircraft emissions – and analysed against relevant Commonwealth and State air quality standards.</p> <p>EPA air quality data was extracted annually from the adjacent Netley monitoring station, and then analysed and reported to meet the relevant State ambient air quality standards.</p> <p>Air monitoring was conducted on all asbestos removal projects. All air quality results were well below adopted exposure standards for atmospheric contaminants.</p>

APPENDIX

ENVIRONMENT STRATEGY OBJECTIVES, GOALS AND MANAGEMENT ACTIONS



Environment Strategy Objectives, Goals and Management Actions

Compliance Objective (by 2034)		
Operate and develop Adelaide Airport in a manner that complies with relevant regulatory and other standards whilst striving for continuous improvement.		
Goal (2014-2019)	Management Actions (2014-2019)	Timeframe
Strive for 100% compliance for developments and airport activities with relevant noise regulations	Assess ground power units usage by airlines and develop strategy to improve usage rates	2015
	Install ground power units on all future aerobridges and pre-conditioned air on all future international bay aerobridges	2019
	Install ground power units on all future aerobridges and pre-conditioned air on all future international bay aerobridges	2019
	Continue to conduct regular boundary noise monitoring	Ongoing
	Continue to model noise impacts for proposed new developments and implement mitigation strategies where necessary	Ongoing
	Continue to include relevant noise mitigation in Construction Environmental Management Plans and conduct inspections	Ongoing
	Continue to enforce the AAL Ground Running Policy	
	Continue to engage with the local community on noise issues	Ongoing
	Continue to provide guidance to stakeholders on noise mitigation strategies	Ongoing
Strive for 100% compliance for developments and airport activities with relevant air quality regulations	Continue to investigate noise abatement measures and where feasible, integrate into airport operations	Ongoing
	Develop and implement a Local Air Quality Management Plan based on the results of the air quality modelling study	2019
	Continue to conduct air quality monitoring as required	Ongoing
	Continue to collect air emissions data from point sources as required	Ongoing
	Continue to maintain a register of ozone depleting substances and phase out where feasible	Ongoing
Maintain and, where feasible, improve stormwater quality and aquatic ecosystems	Continue to provide guidance to stakeholders on air quality improvement strategies	Ongoing
	Review drainage infrastructure, maintenance and vegetation of the airport's internal drainage network	2015
	Incorporate outcomes of drainage review into the SQMIP	2016
	Assess drain ecology and develop an Aquatic Ecology Management Plan for the airport	2019
	Continue to regularly monitor stormwater quality	Ongoing
	Continue to identify sources of pollution as per the SQMIP and mitigate sources of pollution where identified	Ongoing
	Continue to undertake siltation surveys in the Patawalonga Creek Conservation Zone (PCCZ)	Ongoing
	Continue to monitor success of revegetation using the Index of Stream Condition	Ongoing
	Continue to provide guidance to stakeholders on stormwater quality improvement strategies	Ongoing

Goal (2014-2019)	Management Actions (2014-2019)	Timeframe
Maintain and, where feasible, improve soil and groundwater quality	Integrate contaminant trigger criteria into the Contaminated Site Management Plan	2015
	Conduct a thorough review of all Underground Storage Tank integrity testing programs against national standards	2016
	Continue to conduct regular groundwater monitoring	Ongoing
	Continue to implement priority actions from the Contaminated Site Management Plan	Ongoing
	Continue to guide tenants to close out contaminated sites on a risk basis where practicable	Ongoing
	Continue to conduct relevant environmental site assessments for new developments and lease terminations in accordance with the AAL Environmental Site Assessment Guidelines	Ongoing
	Continue to provide guidance to stakeholders on contamination prevention and remediation strategies	Ongoing
Strive for 100% compliance for hazardous substance storages, handling and disposal Systematically remove asbestos from all AAL owned and / or operated infrastructure	Conduct a feasibility study on phase out of ODS	2017
	Continue to store and manage hazardous substances and dangerous goods in accordance with regulatory requirements	Ongoing
	Continue the environmental inspection program of tenants and construction sites	Ongoing
	Continue to implement emergency response plans for hazardous substances spills	Ongoing
	Continue annual asbestos audit and removal program and maintenance of the Asbestos Register	Ongoing
	Continue to maintain the Hazardous Substances Register, ODS Register and PCB Register	Ongoing
	Continue to provide guidance to stakeholders on hazardous substances management	Ongoing

Environment Strategy Objectives, Goals and Management Actions

Sustainable Development Objectives (by 2034)		
Develop Adelaide Airport through quality buildings of contemporary, sustainable design		
Manage AAL facilities in a manner that minimises cost and natural resource use		
Goal (2014-2019)	Management Actions (2014-2019)	Timeframe
Design, construct and manage AAL assets to meet targets aligned to key Sustainability Performance Indicators	Continue to measure AAL's asset operation in alignment with SPI	Ongoing
	Regularly review progress of operational performance against SPT	2015
	Conduct annual environmental awareness training for all AAL staff	2015
	Create a reporting tool to convey asset management results	2016
	Assess the feasibility of conforming to Global Reporting Initiative standards	2017
	Continue to improve building performance through cost-effective improvements to operation and maintenance practices	Ongoing
Implementation of sustainable design principles	Continue to incorporate sustainable design principles into Development Design Guidelines, encouraging adoption of energy efficiency measures consistent with the Building Code of Australia	Ongoing
	Continue to identify sustainable development opportunities	Ongoing
	Encourage the adoption of external performance metrics	Ongoing
Embed principles of stewardship into corporate processes and through the supply chain	Expand set of Airport environmental guidelines for use by tenants, contractors, and AAL staff	2016
	Continue to encourage customers, partners and suppliers to adopt sustainability principles and practices	Ongoing
	Promote stewardship initiatives throughout the AAL supply chain through preferred 'suppliers of choice'	Ongoing

Energy and Climate Change Objectives (by 2034)		
Minimise future electricity load growth through energy conservation measures and renewable energy Minimise AAL's carbon footprint Influence and guide other airport users to reduce their carbon footprint Adapt to future climate change impacts		
Goal (2014-2019)	Management Actions (2014-2019)	Timeframe
Reduce AAL's per passenger electricity consumption (10% of 2013 levels by 2019)	Develop and implement a carbon reduction plan	2015
	Continue to investigate possible locations for renewable energy installations	2016
	Assess the economic feasibility of a renewable energy power station	2019
Reduce AAL's per passenger greenhouse gas emissions (5% of 2013 levels by 2019)	Continue annual measurement of the company carbon footprint	Ongoing
	Continue certification to Level 1 of ACI's Airport Carbon Accreditation scheme	Ongoing
	Seek certification to Level 2 of ACI's Airport Carbon Accreditation scheme	2015
	Assess feasibility of achieving Level 3 certification	2015
	Develop and implement a Green Vehicle Program	2015
	Detail and enforce minimum energy efficiency standards for plant and equipment, including motor vehicles, in the company purchasing policy	2017
Strive to realise reductions in tenant energy consumption	Assess voluntary carbon offset options	2017
	Develop and implement an Airport Stakeholder Engagement Plan for carbon management	2015
	Support and facilitate fuel reduction initiatives by aircraft operators where possible	Ongoing
	Assess the feasibility of introducing biofuels for Ground Service Equipment in partnership with airlines	2017
Improve AAL's preparedness against the likely impacts of climate change on infrastructure and operations	Continue to provide guidance to tenants on techniques for measuring emissions and reducing energy consumption	Ongoing
	Complete climate vulnerability and adaptation study	2015
	Conduct detailed infrastructure review against climate adaptation study outcomes	2016
	Incorporate, where required, new pavement and building standards into development and construction guidelines	2019
	Accommodate, where required, extreme weather events into the Airport Emergency Plan	2016
	Continue to participate in local and State adaptive planning processes	Ongoing

Environment Strategy Objectives, Goals and Management Actions

Water Objective (by 2034)		
Minimise the proportion of potable water consumption at Adelaide Airport		
Goal (2014-2019)	Management Actions (2014-2019)	Timeframe
Reduce AAL's per passenger potable mains water consumption (10% of 2013 levels by 2019)	Investigate opportunities to utilise stormwater harvested from the car park scheme and Adelaide Airport Stormwater Scheme	2015
	Assess opportunities for introducing more water efficient management of Terminal 1 cooling towers and other infrastructure, and assess end-of-life replacement options	2106
	Continue to seek opportunities for implementing water sensitive urban design principles	Ongoing
	Continue to update the water meter network to improve data accuracy, where required	2015
Increase the number of connections made to non-potable water sources, where practicable	Encourage new developments to connect to the recycled water network	Ongoing
	New developments to incorporate water sensitive urban design features such as rainwater tanks or other water harvesting systems	Ongoing
Increase the number of tenants implementing water efficiency measures, where possible	Provide tenants with water efficiency awareness raising tools and materials to use in their workplaces	2019

Waste Objective (by 2034)		
Increase the proportion of airport waste diverted from landfill		
Goal (2014-2019)	Management Actions (2014-2019)	Timeframe
Increase the per passenger volume of waste recycling from AAL facilities (10% of 2013 levels by 2019)	Revise and implement the Waste Management Strategy for T1	2014
	Establish a T1 food organics recycling scheme	2015
	Investigate upstream waste elimination opportunities in partnership with T1 tenants, including use of compostable products	2016
	Develop and implement an updated Waste Management Strategy for AAL operations	2016
Implement a green purchasing program	Develop and implement a Green Purchasing Policy focussing on waste reduction	2015
	Run a staff education campaign on the Green Purchasing Policy	2016
Facilitate waste reuse and recycling by tenants, where feasible	Develop and communicate guidelines on recyclable construction materials	2017
	Encourage airport food and beverage tenants to compost food waste	2019
	Continue to support airline programs aimed at recycling on-aircraft waste	Ongoing
	Continue to support airport tenants to expand their waste avoidance, reuse and recycling programs	Ongoing
	Continue to encourage recycling and rejuvenation of demolition and construction waste	Ongoing

Land and Heritage Objectives (by 2034)		
Enhance biodiversity		
Conserve places of significant natural, indigenous and heritage value		
Minimise the risks presented by wildlife to aviation safety		
Goal (2014-2019)	Management Actions (2014-2019)	Timeframe
Improve native biodiversity of target zones within the airport	Develop an Aquatic Ecology Management Plan for the PCCZ	2015
	Review detailed flora and fauna surveys of the PCCZ	2016
	Continue to implement the Conservation Zone Management Plans	Ongoing
	Research and develop a long term strategy to assess and mitigate impact on native habitats	2018
	Partner with external stakeholders to support a biodiversity program in State-controlled easements or drains	2015
	Implement the SQMIP, in particular, upgrade the stormwater network with sustainable vegetated filtration systems	2016
	Continue to monitor the open stormwater network using the Index of Stream Condition	Ongoing
	Continue to implement the AAL Landscape Guidelines	Ongoing
Protect significant heritage values	Continue to apply biodiversity no net loss policy	Ongoing
	Finalise a Heritage Management Strategy	2015
	Develop Heritage Management Plans, where required	2019
	Continue to implement procedures for identifying and protecting archaeological artefacts	Ongoing
Strive to reduce wildlife strike rates involving higher risk species	Continue to promote communication between AAL and traditional custodians	Ongoing
	Implement Wildlife Hazard Management Plan, in particular, complete airside vegetation mapping and conduct a grass trial for runway strips	2015
	Undertake comprehensive on-airport wildlife hazard mapping linked to vegetation	2016
	Develop and integrate Wildlife Hazard Management Zone mapping into the Building Application process	2016
	Use Wildlife Hazard Management Zone mapping as a tool to educate off-airport stakeholders on minimising strike risk	Ongoing
	Continue to collaborate with airport neighbours on fox control	Ongoing
	Continue to review and implement the Wildlife Hazard Management Plan	Ongoing

APPENDIX

**KEY
ENVIRONMENTAL
MANAGEMENT
SYSTEM
DOCUMENTATION**



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Key Environmental Management System Documentation

EMS Element	Policies / Plans / Reports	Procedures
Policy	Sustainability Policy Environment Policy	Planning Procedure
Planning	Airport Environment Strategy	Environmental Management System Manual Risk Management Manual Aspect Identification Procedure Risk Management Procedure Tenant Risk Ranking Procedure Planning Procedure
Implementation	Environment Management Plan Contaminated Site Management Plan Stormwater Quality Management and Improvement Plan Asbestos Management Plan Patawalonga Creek Conservation Zone Management Plan Patawalonga Creek Conservation Zone Revegetation Plan Wildlife Hazard Management Plan Waste Management Plan Carbon Management Plan Water Management Plan Airport Emergency Plan Training Plan	Legal Monitoring Requirements Procedure Training Procedure Document Control Procedure Incident and Hazard Reporting System Guide
Checking & Monitoring	Environment Management Plan	Monitoring Procedure Tenant and Construction Inspection Procedure Internal EMS Audit Procedure Non-conformance Procedure
Reporting & Review	AAL Monthly Environment Reports DIRD Annual Environment Report	Management Reporting and Review Procedure Management System Review Procedure



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