

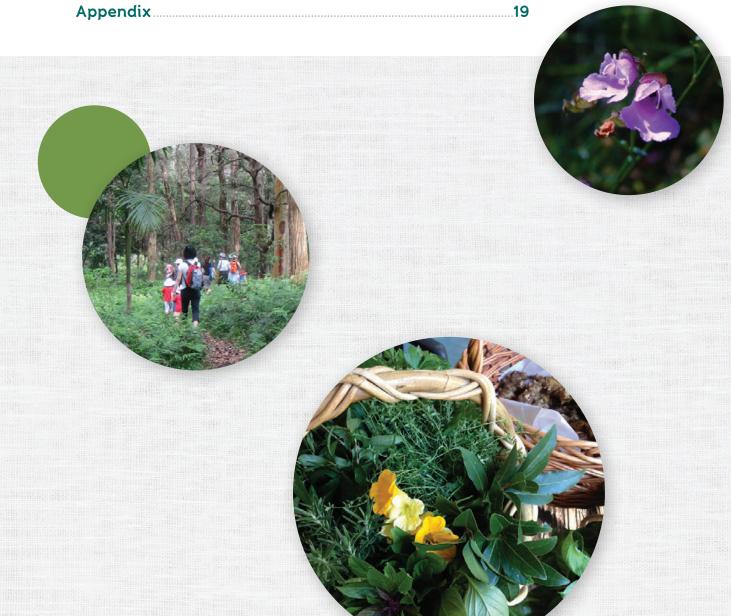






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Introduction

Willoughby City Council is committed to sustainability, by providing leadership and working with the community to foster a vision of Willoughby City becoming a sustainable City. This commitment is reflected in our Willoughby City Strategy which is underpinned by the Sustainability Action Plan (SAP) and guides the work undertaken with e.restore funding.

This SAP Report Card provides an overview of progress against the targets and key performance indicators set out in the 2014-2018 Sustainability Action Plan. Council continues to make significant progress in the sustainable provision of community services, management of infrastructure, protection of the environment, planning for economic development, strategic planning, and organizing festivals and events.

Natural Environment

Target:

- Implementation of Urban Bushland Plan of Management (UBPoM)
- Minimum of three new reserve action plans adopted

Key Performance Indicators (KPI)	Results	Progress
Adoption of Urban Bushland Plan of Management	Completed with implementation under way.	•
Commence Bushland Asset Management Plan	 Completed weed density mapping throughout all bushland reserves. Completed native vegetation mapping of all bushland reserves. 	
Minimum of three new Reserve Action Plans are adopted	 5 Reserve Action Plans completed: Explosives Reserve RAP Harold Reid Reserve RAP Artarmon Park RAP Artarmon Reserve RAP Clive Park RAP 	



Council supports about 130 community gardeners over four Community Gardens on Council land and two community gardens on verges.

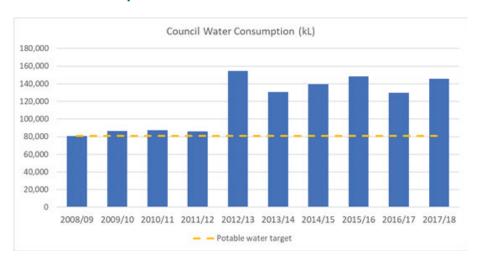
Supplementary Measures	Results	Progress
Number of scheduled burns prepared, completed and maintained As required	 2 Hazard Reduction Burns prepared and 4 burns completed: Burns completed: Castle Cove Park Castlecrag Northern Escarpment Mowbray Park North Arm Reserve (Willis Road) All previous burn sites maintained, including: Clive Park Northbridge Park North Arm Reserve 	
Number of events and workshops and number of participants involved Monitoring trend only	Events (excluding Emerge Festival): 12/13: 5 events with 2,675 participants 13/14: 5 events with 3,459 participants 14/15: 5 events with 3,250 participants 15/16: 4 events with 2,850 participants 16/17: 5 events with 3,060 participants 17/18: 6 events with 2,335 participants Workshops 12/13: 4 workshops with 121 participants 13/14: 5 workshops with 132 participants 14/15: 5 workshops with 128 participants 15/16: 5 workshops with 120 participants 16/17: 10 workshops/activities with 280 participants 17/18: 18 workshops/talks with 507 participants 18/14: 40 bushwalks with 579 participants 13/14: 40 bushwalks with 581 participants 15/16: 36 bushwalks with 540 participants 15/16: 36 bushwalks with 540 participants 16/17: 36 bushwalks with 960 participants 17/18: 33 bushwalks with 525 participants	
Number of volunteers Monitoring trend only	12/13: 301 13/14: 287 14/15: 292 15/16: 296 16/17: 289 17/18: 295	
Number of volunteer hours Monitoring trend only	12/13: 4,610 13/14: 4,580 14/15: 6,325 15/16: 6,155 16/17: 6,224 17/18: 5,735	

Water Quality and Conservation

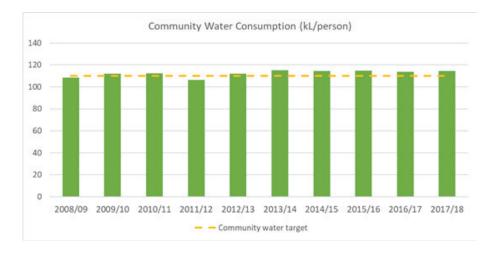
Target:

- Reduction of potable water consumption from Council operations to less than baseline year of 2008/09 (Target <80,750)
- Report on community water consumption per head of population from baseline year of 2008/09 (Target <110kL/person)
- Undertake Water Quality Monitoring at 10 sites
- Develop a local waterway health report card

Water Consumption – Council



Water Consumption – Community









Key Performance Indicators (KPI)	Results				Progress
Total water withdrawn by source (by Council) Target <80,750kL	08/09: 80,750 kL 09/10: 86,637 kL 10/11: 87,443 kL 11/12: 85,953 kL 12/13: 154,392 kL (post com 13/14: 130,802 kL 14/15: 139,565 kL 15/16: 148,404 kL 16/17: 129,707 kL 17/18: 145,806 kL	nmissioning	of The Conc	ourse)	
Total water withdrawn by source in ML (Community) Monitoring trend only	08/09: 7,586 ML 09/10: 7,746 ML 10/11: 7,946 ML 11/12: 7,554 ML 12/13: 8,064 ML 13/14: 8,432 ML 14/15: 8,485 ML 15/16: 8,772 ML 16/17: 8,865 ML 17/18: 9,153 ML				
Total water withdrawn by source in kL per head of population Target <110kL/person	08/09: 110 kL/person 09/10: 111 kL/person 10/11: 114 kL/person 11/12: 105 kL/person 12/13: 112 kL/person 13/14: 115 kL/person 14/15: 115 kL/person 15/16: 115 kL/person 16/17: 114 kL/person 17/18: 114 kL/person				
Monitor water quality at 10 sites.	The comparison of waterway meet ANZECC guidelines at 6			eters that	•
	 Scotts Creek Upper Scotts Creek Middle Scotts Creek Lower Sugarloaf Creek Upper Sugarloaf Creek Lower Sailors Bay Creek Flat Rock Creek Upper Flat Rock Creek Middle Swains Creek Blue Gum Creek 	2015/16 E D D E D C D C D D	2016/17 E E D D C D C D C B	2017/18 D C C C C C C C C	
Develop a local waterway health report card.	Complete				•

Noise and Air Quality

- Report on the number of incidents exceeding the National Air Quality Standards.
- Report on number of noise complaints received.

Key Performance Indicators (KPI)	Results	Progress
Number of incidents exceeding the National Air Quality Standards Monitoring trend only	12/13: 0 13/14: 0 14/15: 0 15/16: 5 16/17: 4 17/18: 7	
Number of noise complaints received. Monitoring trend only	12/13: 337 13/14: 333 14/15: 270 15/16: 288 16/17: 321 17/18: 351	



Resource Recovery and Waste Avoidance

Target:

- Divert waste from landfill by 66%
- Increase recycling participation rates to 80%
- Reduce the amount of domestic waste per person per year to <177kg
- Reduce the number of dumping incidences to < 786 (from baseline year of 2012/13)
- Implement illegal dumping campaign



In the past year, our residents reduced their waste to landfill by 33kg per person, from 228kg/year to 195kg/year.

Key Performance Indicators (KPI)	Results	Progress
Amount of waste diverted from landfill per year (percentage) Target >66%	Percentage waste diverted from landfill 09/10: 40% 10/11: 62% 11/12: 62% 12/13: 62% 13/14: 63% 14/15: 64% 15/16: 62% 16/17: 40% 17/18: 49%	
Amount of domestic waste per person per year (average for all residents in kgs/ person/year) Target <177kg/person/year	Waste in Tonnes, population in brackets = kgs/person/year 08/09: 14,579 (69,886) = 208 09/10: 14,709 (69,199) = 212 10/11: 11,302 (70,705) = 159 11/12: 12,917 (71,139) = 181 12/13: 12,788 (71,933) = 177 13/14: 11,125 (73,155) = 152 14/15: 11,693 (74,067) = 157 15/16: 10,077 (76,354) = 132 16/17: 17,728 (77,833) = 228 17/18: 15,608 (79,976) = 195	
Recycling participation rate (% of population presenting recycling bins for collection) Target >80%	Recycling participation rate 11/12: 70% 12/13: Audit not undertaken in this period 13/14: 75% 14/15: 73% 15/16: 73% 16/17: 74% 17/18: 74%	
Number of dumping incidences reported to Council. Target <786	10/11: 729 incidences 11/12:725 incidences 12/13: 786 incidences 13/14: 850 incidences 14/15: 799 incidences 15/16: 1136 incidences 16/17: 792 incidences 17/18: 682 incidences	
Minimise waste generated by Council. Total weight of waste by type and disposal method. Target: Decreased waste to landfill.	Council waste to landfill: 09/10: 1124 tonnes 10/11: 1063 tonnes 11/12: 1007 tonnes 12/13: 1032 tonnes 13/14: 1025 tonnes 14/15: 1025 tonnes 15/16: 998 tonnes 16/17: 969 tonnes 17/18: 1265 tonnes	



Sustainability Education

Target:

- Provide more than 10 sustainability education workshops for the community
- Host a minimum of 2 sustainability events

Key Performance Indicators (KPI)	Results	Progress
Provide more than 10 Sustainability Education Workshops for the Community	12/13: 17 13/14: 44 14/15: 48 15/16: 85* 16/17: 167** 17/18: 146	
Host a minimum of 2 Sustainability Events	14/15: 6 15/16: 11* 16/17: 17** 17/18: 18	
Undertake Market research of the Willoughby Community	Complete	
Develop and pilot an enhanced Sustainability Education Program	Complete 'Live Well in Willoughby' campaign launched.	

Note: *This financial year includes all Live Well in Willoughby workshops and events, unlike previous years where only Sustainability events were included. This does not include non-advertised events such as school education activities and internal workshops. **This financial year includes non-advertised activities such as school education and internal workshops.

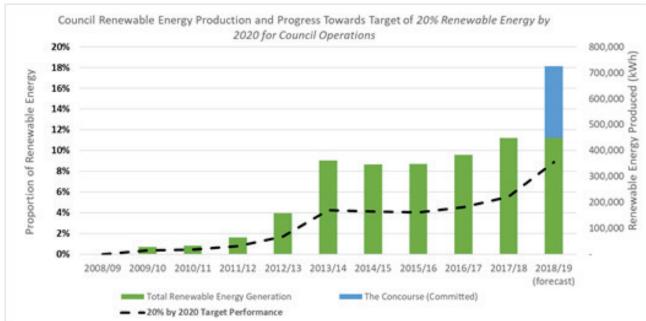
94% satisfaction rating

8700 people attended our events

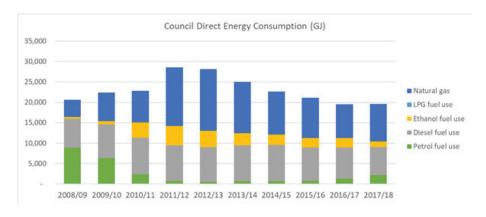


Climate Change and Energy Efficiency

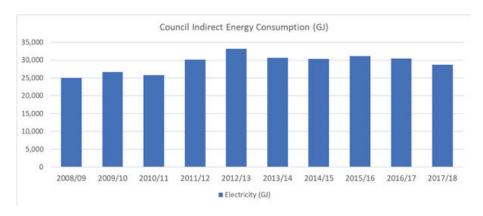
- 20% renewable energy by 2020 for Council operations
- Adoption of a Climate Change Adaptation Plan



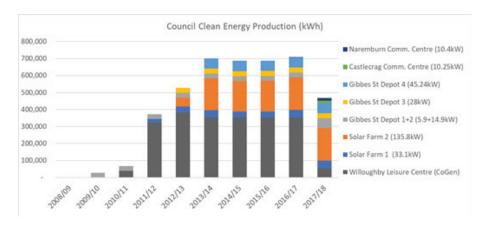
Direct Energy (Fuel and Gas)



Indirect Energy (Electricity)

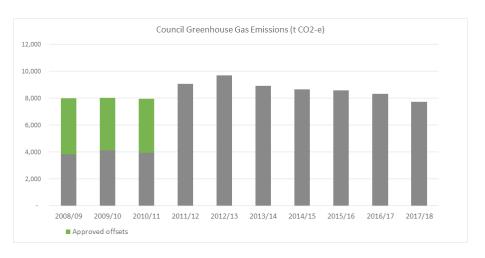


Energy Produced





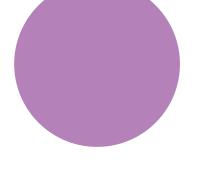
Greenhouse Gas Emissions



Key Performance Indicators (KPI)	Results	Progress
Direct energy consumption by primary source in giga-joules Anticipated trend: reduction in consumption.	Total direct energy consumption (GJ): 08/09: 20,660 09/10: 22,445 10/11: 22,795 11/12: 28,589 12/13: 28,117 13/14: 25,062 14/15: 22,683 15/16: 21,123 16/17: 19,531 17/18: 19,594	
Indirect energy consumption by primary source in giga-joules Anticipated trend: reduction in consumption.	Total indirect energy consumption (GJ): 08/09: 24,957 09/10: 24,644 10/11: 25,783 11/12: 30,127 12/13: 33,175 13/14: 30,635 14/15: 30,380 15/16: 31,168 16/17: 30,486 17/18: 28,661	
Energy saved due to conservation and efficiency improvements in kilowatt hours. Anticipated trend: increase in energy produced.	Clean Energy produced by Council (kWh): 08/09: 2,348 09/10: 27,644 10/11: 72,238 11/12: 386,317 12/13: 540,553 13/14: 663,470 14/15: 638,420 15/16: 640,169 16/17: 672,327 17/18: 467,282	

Key Performance Indicators (KPI)	Results	Progress
Total greenhouse gas emissions and reductions achieved Anticipated trend: reduction in greenhouse gas emissions.	Total greenhouse gas emissions (Tonnes CO ₂ -e): 08/09: 8,000 (3,656 after offsets included) 09/10: 8,000 (4,282 after offsets included) 10/11: 7,800 (3,948 after offsets included) 11/12: 9,085 12/13: 9,698 13/14: 8,925 14/15: 8,652 15/16: 8,583 16/17: 8,341 17/18: 7,743	•
Total annual greenhouse gas emissions (t CO ₂ -e) associated with electricity consumption within the WCC Local Government Area. Monitoring trend only	Residential Electricity Use (MWh) 06/07: 198,580 09/10: 192,528 10/11: 193,257 11/12: 181,118 12/13: 172,791 13/14: 161,718 14/15: 171,680 15/16: 171,760 16/17: 174,248 17/18: TBC (Data available end 2018)	
	Non-Residential Electricity Use (MWh) 06/07: 477,509 09/10: 480,109 10/11: 482,952 11/12: 470,656 12/13: 451,867 13/14: 430,763 14/15: 426,651 15/16: 417,643 16/17: 414,274 17/18: TBC (Data available end 2018)	
	Total Greenhouse Gas Emissions (Tonnes CO ₂ -e) 06/07: 716,654 09/10: 712,995 10/11: 716,783 11/12: 690,880 12/13: 662,137 13/14: 628,030 14/15: 634,230 15/16: 565,913* 16/17: 565,067 17/18: TBC (Data available end 2018)	

^{*} Note: the use of a different ongoing NSW emissions conversion factor for electricity has contributed to the drop in associated GHG emissions



Sustainable Building

- All new Council buildings are to incorporate sustainable building design considerations
- All new residential dwellings meet or exceed BASIX requirements

Key Performance Indicators (KPI)	Results	Progress
All new Council buildings are to incorporate sustainable building design considerations	100%	•
All new residential dwellings meet or exceed BASIX requirements. Legislative requirement	100%	

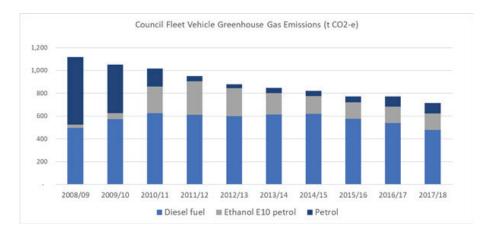


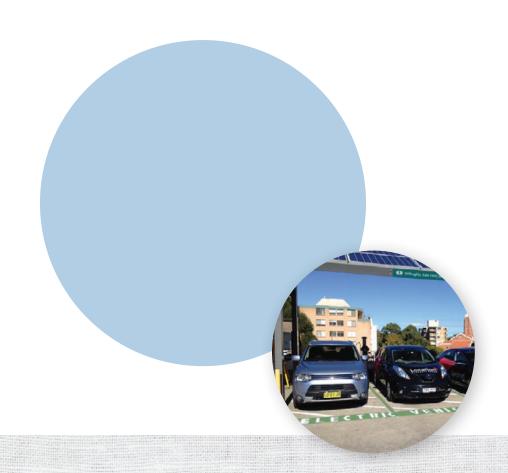
Sustainable Transport

Target:

- Reduce Greenhouse Emissions from Council's Fleet by 5% from 2008/09 baseline of 1,120 tonnes by 2017
- Conduct a review of Artarmon and the Loop Shuttle Services
- CouncilCab Patronage target of 3,600
- Apply for RMS funding for actions in Willoughby Bike Plan Review 2012
- Deliver educational cycling activities and events to the community

Council Fleet





Reduce greenhouse		
emissions from Council's fleet by 5% from 08/09 baseline of 1,120 tonnes by 2017	GHG Tonnes/year 08/09: 1,120 09/10: 1,049 10/11: 1,018 11/12: 926 12/13: 887 13/14: 847 14/15: 821 15/16: 774 16/17: 774 17/18: 714	
Conduct a review of Artarmon Loop and The Loop shuttle services	Review of the Artarmon and the Loop Shuttle Services complete. The continued operation of the service will be tendered in the 2017/18 financial year.	•
The Artarmon Loop and The Loop patronage Monitoring trend only	The Artarmon Loop: 11/12: 245,537 12/13: 235,320 13/14: 182,373 14/15: 178,689 15/16: 200,589 16/17: n/a	n/a
Monitoring trend only	The Loop service: 11/12: 7,382 12/13: 11,642 13/14: 15,530 14/15: 14,211 15/16: 14,877 16/17: n/a	n/a
CouncilCab patronage Target > 3,600	Council Cab: 11/12: 3,600 12/13: 3,633 13/14: 3,778 14/15: 3,307 15/16: 3,760 16/17: 3,328 17/18: 3,808	•
Apply for RMS funding for actions in Willoughby Bike Plan Review 2012	Council applied for 2018-19 Active Travel funding through the RMS	•
Deliver educational cycling activities and events to the community Monitoring trend only	Cycling skills and bike maintenance workshops attendance: 11/12: 120 12/13: 100 13/14: 159 14/15: 97 15/16: 118 16/17: 110 17/18: 102	

Sustainable Business

- More than 10 large commercial/industrial businesses registered with Council Programs (e.g CitySwitch)
- More than 7 business events, networking opportunities and/or workshops each year;
- More than 80 Willoughby businesses registered with Council programs such as Better Business Partnership.

Key Performance Indicators (KPI)	Results	Progress
More than 10 large commercial industrial businesses registered with Council Programs (e.g CitySwitch)	CitySwitch (cumulative total): 11/12: 8 12/13: 13 13/14: 16 14/15: 17 15/16: 17 16/17: 17	
More than 7 business events, networking opportunities and/or workshops each year	12/13: 2 13/14: 7 14/15: 12 15/16: 4 16/17: 5 17/18: 3	
More than 80 Willoughby businesses registered with Council programs such as Better Business Partnership.	Better Business Partnership (cumulative total): 12/13: 75 active member businesses located within the Willoughby LGA. 13/14: 99 active member businesses located within the Willoughby LGA. 14/15: 106 active member businesses located within the Willoughby LGA. 15/16: 137 active member businesses located within the Willoughby LGA. 16/17: 191 active member businesses located within the Willoughby LGA (224 recruited in total within Willoughby LGA over BBP's program life). 17/18: 202 active member businesses located within the Willoughby LGA. (240 recruited in total within Willoughby LGA over BBP's program life.)	

Appendix

PROJECT NUMBER AND NAME 2017/18	REVISED 2017/18 BUDGETS	TOTAL 2017/18 EXPENDITURE AND PROJECT COMMITMENTS	% SPENT/ COMMITTED
245002882 - Solar PV Concourse Project	235,500	210,874	90%
245007064 - Street Lighting Improvement Program (SLIP)	713,000	2,817	0%
245007065 - Street Lighting - Council wide lighting improvement project	80,000	76,670	96%
245007067 - Public Tree Inventory - Preliminary planning	60,000	15,642	26%
245007070 - Solar Farm 4 NSROC	2,000	2,000	100%
245007074 - LED lighting+controls upgrade - design & installation - Admin building	60,000	44,645	74%
245007075 - Electric Plant and Equipment procurement	20,000	17,142	86%
245007076 - Solar power PV installation - Design & Install - Artarmon Kids Cottage	14,000	14,000	100%
245007078 - Willoughby Park Centre Automated Louvres	16,000	9,691	61%
245007079 - Willoughby Leisure Centre Sustainable Capital Works Project	160,000	160,000	100%
245007080 - Council Owned Public Lighting Inventory and Upgrade	108,000	108,500	100%
245007081 - Stomwater Harvesting Construction Program	300,000	314,647	105%
245007083 - GPT 4 Year Renewal Program	79,000	76,320	97%
245007085 - Construct Bicycle Routes and Paths (Gore Hill to St Leonards)	20,000	14,970	75%
345001275 - Sustainability Projects	-	575	100%
345001804 - Natural Area Management	-	5,018	100%
345002116 - Streetscape - Canopy replenishment	41,000	41,454	101%
345002880 - Air Qualtiy Monitoring - Environmental Health	21,900	21,544	98%
345002881 - Water Quality Monitoring - Environmental Health	31,200	32,272	103%
345002883 - Solar Mapping Project	5,000	5,000	100%
345002884 - Solar PV monitoring project	4,200	4,200	100%
345002886 - Solar Farm 3 - Willoughby Leisure Centre	7,000	6,760	97%
345002890 - Water Efficiency Retrofit Project	28,000	17,520	63%
345002892 - The Concourse Stormwater Tank - Monitoring and Commissioning	45,000	45,000	100%

PROJECT NUMBER AND NAME 2017/18	REVISED 2017/18 BUDGETS	TOTAL 2017/18 EXPENDITURE AND PROJECT COMMITMENTS	% SPENT/ COMMITTED
345002894 - Live Well in Willoughby - Sustainability Education Campaign (Proj ID 300050)	93,000	96,913	104%
345002900 - Natural Area Management - Middle Harbour	422,300	422,009	100%
345002901 - Natural Area Management - Lane Cove River Catchment	164,800	164,800	100%
345002902 - Catchment Management Actions - Lane Cove River Catchment	41,200	41,000	100%
345002903 - Catchment Management Actions - Middle Harbour	128,750	128,608	100%
345002904 - Reserve Linkage Planting (Proj ID 300066)	139,050	139,195	100%
345002905 - Sustainable Transport Education Program	23,000	17,917	78%
345002906 - Live Well in Willoughby Environmental Education - Bushland	82,400	81,535	99%
345002907 - Bicycle Network Audit & Assessment -Asset Cond.missing links & survey	20,000	4,640	23%
345002909 - Eastern Valley Way (Installation of shared path & pedestrian fencing)	-	20	100%
345003000 - e.restore - Operating & Maintenace Costs	240,900	239,720	100%
345007066 - Electric Vehicle (EV) public charging stations-Research & Installation CBD	6,000	5,435	91%
345007071 - Environmental strategy and action plan	100,000	129,194	129%
345007072 - WCC buildings HVAC audit and efficiency works	9,000	8,240	92%
345007073 - Sustainable Fleet Strategy and Implementation	5,000	2,000	40%
345007082 - Backup Power Infrastructure for Emergency Use	4,000	3,244	81%
345007084 - Stormwater Harvesting and GPT Design Program	50,000	39,853	80%
545007005 - e.restore Labour	1,885,800	1,446,663	77%
545007006 - Internal Overhead	339,800	339,800	100%
545007007 - Environmental Vehicle Initiative Program	50,000	50,000	100%
545007008 - Transport Mgt - CouncilCab Project	67,500	59,968	89%
545007009 - Council's Shuttle Bus (incl Artarmon Loop)	280,000	270,113	96%
545007220 - e.restore Levy Subsidy for BBP Project	137,000	120,000	88%
Totals	6,340,300	\$5,058,128	80%

Total Environmental Levy Rates Income for 2017/18 was \$5,379,500. Unspent funds allocated to Environmental Reserve for capital works program.



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