

ANNUAL REPORT
21/22



Preserve. Improve. Protect.



This page: Newland Head Conservation Park; Sputnik

Cover (top image only): Dolphin Beach, Yorke Peninsula, Dhillba Guuranda-Innes National Park; Ben Goode

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Minister's Report



Hon. Dr Susan Close, MP
Minister for Climate,
Environment and Water

South Australia's position as a leader in sustainability policy and action is well known. I have a personal commitment to addressing environmental issues in this state and much more broadly and was thrilled to take on the Climate, Environment and Water portfolio following the March 2022 election.

My combined portfolios of Industry, Innovation and Science together with Climate, Environment and Water provide huge opportunities for a sustainable South Australia with a prosperous and thriving economy.

In May 2022 SA was the first Australian state to pass a motion declaring that we are facing a climate emergency. This declaration illustrates my commitment to addressing the real environmental, social and economic costs of climate change and previous inaction to address it.

The state government, through Green Industries SA, has set a goal in our South Australian Food Waste Strategy 2020-2025 to halve the amount of food and organic waste in household residual waste bins by 2023, and an even more ambitious goal for zero food and organic waste lost from recycling, or other higher value use, by 2030.

Key to the success of these strategies is significant business and community support and positive partnerships. KESAB is a strong SA advocate and vital partner in meeting these goals and ensuring SA keeps its environmental leadership position.

Key to success is, of course, meaningful education and support for behaviour change. Green Industries SA is proud to have KESAB as a delivery partner through the iconic and engaging waste reduction and circular economy education program, Wipe Out Waste (WOW) and the Which Bin hotline.

Messages learned through school and behaviours imparted in school communities permeate through the households of the student cohort and more broadly into the community. WOW is strengthened through KESAB's complementary programs and resources.

KESAB's long term collection and monitoring of litter data and waste audit data underpins this circular economy and resource recovery education and behaviour change in SA. WOW in particular has seen significant reductions in waste generated at schools.

I thank KESAB also for its continued collaborative influence through representation on key consultative groups including the Single-use Plastics Stakeholder Taskforce and the Container Deposit Scheme Reference Group.

It is abundantly clear the public wants action on single-use plastic and the state government will continue to engage with business, including the hospitality sector and community about the best way forward. Single-use plastic is part of a linear economy. This loss of the energy, water and materials is not the circular economy we want for South Australia.

Volunteering plays a critical role in South Australia and I thank the SA volunteers engaged in the KESAB Road Watch program for the work they do with the support of the Department for Infrastructure and Transport, cleaning up the State's highways, enhancing amenity as well as protecting the wildlife.

I would also like to acknowledge Professor Jodie Conduit who is the Minister's Representative on the KESAB Board of Directors, and all those people across SA who support the vital work undertaken by KESAB and its hard working team.



Ros De Garis
Chair

KESAB environmental solutions has achieved much this year with many thanks to the enthusiasm and commitment of the staff, and leadership by Wendy Bevan. *KESAB environmental solutions* is at the forefront of South Australia's "war on waste".



KESAB 2022 Board of Directors, from left: Tony Fox, Peter Tsokas, Geoff Webster, Ashley Watson, Ros DeGaris, Damien Hern, Rob Gregory and Tiffany Bermingham. Absent: Barb Cowey and Jodie Conduit.

Like last year, COVID-19 challenged the way KESAB engaged with the community to change behaviour. Education, and measuring the community's response to changes in government waste strategies, is what KESAB understands well. In addition, feeding community enthusiasm for opportunities to recycle and reduce waste back to all levels of government makes *KESAB environmental solutions* an important conduit for adopting a circular economy.

The changing nature of waste legislation is evident in South Australia's history of innovative approaches to litter through Container Deposit Legislation that is now an effective tool to encourage recycling. South Australia continues to lead the country by progressing a register of banned single-use plastic items. The nature of the legislation allows this register to be extended as opportunities to find substitute items occur. *KESAB environmental solutions* will seek to engage with industry on Extended Producer Responsibility (EPR) as an opportunity to encourage greater connection between industry, consumers and the pathways that enable a product or by-product to finish one use and then recover it for the next use.

Likewise, we have seen South Australia take-up the challenge of compostable waste. KESAB has seized this opportunity to collaborate with our partners to progress initiatives by regional South Australia, the food industry and households to demonstrate innovation to recover organics and utilise it through specific types of compost and biochar.

KESAB environmental solutions continues its dedicated support for a circular economy to reduce waste and promote recycling. We look forward to the challenges that lie ahead to educate the community in new behaviours that ensure legislation has opportunities to promote a circular economy using practical and accessible tools.

On behalf of the *KESAB environmental solutions* Board, we welcome the new state government and local government changes expected in November and look forward to continuing to build a sustainable South Australia.



Wendy Bevan
CEO

KESAB environmental solutions had a successful and productive 2021-2022 despite another year disrupted by COVID-19 related restrictions on access to education and business sites and on operations.

Within this context, KESAB's success came from its ability to be flexible and nimble and to continue to deliver its core sustainability education programs and waste audits and to provide its full range of high quality, interesting and effective offerings to our partners, clients and community over the year. These are outlined in more detail in this Annual Report.

I would like to thank the outgoing Minister for Environment, The Hon. David Speirs, MP for his support to KESAB. Minister Speirs' commitment to the environment and to legislative changes such as the banning of single-use plastics meant that SA continues to be a leader in circular economy and waste reduction in Australia.

There is still much to be done and I would like to congratulate the incoming Minister for Climate, Environment and Water, the Hon. Dr Susan Close, MP, for both the election outcome and her appointment. KESAB proudly works with governments of the day to advance environmental outcomes and meet its purpose to drive positive environmental change in industry and the community, and I look forward to an ongoing productive relationship with Minister Close.

Looking at the 2021-2022 financial year it was pleasing to see further movement on the bans of single-use plastics with additional items added. KESAB also provided its submission to the consultation on the next group of banned items. KESAB's litter counts and the data provided by our Road Watch volunteers showed an immediate reduction in litter of items such as plastic straws following the ban of that item.

KESAB continued to collect and measure litter data. This data provides robust real data which inform state

and local litter policy such as single-use plastic bans and container deposit legislation. It also informs education programs delivered by KESAB including Litter Less.

It was also pleasing to see some advance in the review of the Container Deposit Scheme over the year. SA was the first state to introduce a scheme in 1977 and a review of the entire scheme including structure, governance and scope was always going to a hugely complex undertaking. The decision to take issues such as scope of included containers and the deposit amount to the national level will enable a more consistent approach across jurisdictions and less confusion and resistance.

KESAB's new Wipe Out Waste (WOW) website was launched in 2021 and this together with the bedding-in of the deeper WOW engagement level model across new and existing education sites has meant stronger engagement with WOW, which is a significant achievement given the COVID-19 disruptions. WOW has been supported by the South Australian Government over the long term and KESAB is proud to be a long term delivery partner with Green Industries SA (GISA) delivering Wipe Out Waste.

Visits to the KESAB Education Centre by both community and schools increased over the year, despite some restrictions on access due to COVID-19 and we look forward to continued increased visits. The Centre is supported by Integrated Waste Services and KESAB partners and I thank them all for their ongoing commitment to KESAB, waste education and sustainability.

We were also pleased to be able to conduct the KESAB awards once again in person this year. The Awards celebrated three of KESAB's programs: Road Watch, Sustainable Communities and Wipe Out Waste. More about the Awards and winners can be read in this Annual Report and I would like to congratulate all participants and winners.

KESAB's work with partner councils and businesses over the year continued apace with a large range of community and school workshops, incursions, tours, dinners and meaningful education programs delivered across the metropolitan and regional areas. We are proud to support local businesses and local government with their sustainability/green plans, waste systems and their circular economy and waste goals.

KESAB was pleased also to commence our partnership with OzHarvest to support them to deliver their FEAST program in SA schools.

KESAB's audit team conducted kerbside and commercial waste audits and bin inspections for a large range of businesses and councils this year. Audits of waste streams across residential, commercial or industrial sites provides critical data to benchmark, measure and inform policy, education and progress against circular economy and waste reduction targets.

Both federal and state governments have set strong targets for waste reduction and in particular for diversion and recovery of green waste from landfill, which is both costly to dispose of and is a critically wasted resource. With an average of 40% of landfill still comprising green waste there is so much more to do and KESAB looks forward to working with GISA to meet their Business Plan goals.

If ever there was any doubt that wine bottles should be included in the container deposit scheme one should look

no further than the findings of recycling bin waste audits undertaken by KESAB. Broken glass, predominately wine bottles, were prevalent in kerbside recycling in all three streams including green waste. Key to a circular economy is recovery of resources at the highest possible value and it is simply a no-brainer that wine bottles should be recovered for reuse as high quality glass.

There are simply too many highlights to list them all in this column and I invite you to read this Annual Report and appreciate the sheer breadth of programs and services which the small passionate team at KESAB deliver, every day and with enthusiasm and commitment. I thank them.

KESAB is fortunate to have an engaged, qualified and experienced Board of Directors and I also thank them for their ongoing support over the period.

I would also like to extend my thanks to KESAB partners, stakeholders and the wider waste industry. As a not-for-profit KESAB simply cannot do the work it does without the support of our financial members.



KESAB Breakfast with Minister 2021.

Wipe Out Waste

KESAB's iconic Wipe out Waste (WOW) program is a whole school community approach to sustainability, waste management and learning. It provides professional learning and development for educators, on-site school waste audits and assessments and is supported by a series of teacher's guides and curriculum based resources aimed from pre-school to year 12.

WOW staff work with education sites across South Australia to reduce litter and waste to landfill by encouraging a whole of site approach to circular economy, sustainability, resource recovery, waste management and waste reduction.

WOW aims to:

- improve systems to avoid and reduce waste and recover resources in schools
- monitor progress and continually improve resource recovery (waste) outcomes in the schools
- encourage and influence people to adopt more sustainable behaviour.

Site support

Over the 2021-2022 year WOW staff provided focussed site support to more than 50 education sites. These included Bin Material Audits (BMA) and Bin System Assessments (BSA), teacher information sessions, WOW Wizard performances, student group support, assistance in developing waste and recycling focussed Site Environmental Management Plans (SEMPs), and more.

Following its development in 2020-2021, the WOW site Engagement Framework model was introduced across education sites and was well received. This framework supports long-term deep engagement and enables schools to track progress, celebrate achievements and work to make meaningful, and measurable, sustainability improvements.

The WOW Journey (passport) is a document that outlines the tasks, actions, deliverables and expected timeframes to meet set targets and goals as a site moves through the Site Engagement Levels.

Educators join the WOW program through attendance at a Professional Learning (PL) session. This includes an introduction to the program, WOW online resources,

and activities to use with students and their families, an opportunity to hear from a school already taking part in the WOW program, as well as from representatives from waste and recycling sites.

A number of professional learning sessions were held over the year, with representation from 17 education sites in a year that continued to be disrupted due to COVID-19 with significant impacts on school's operations and focus. Ten of these new sites then committed to the Wipe Out Waste program.

KESAB appreciates the support of the education sites and businesses who generously provide their time to present at the Teacher PL sessions. These include, but are not limited to; Electronic Recycling Australia, Integrated Waste Services, Advanced Plastic Recycling, Biobag, Cleanaway, Jeffries, Northern Adelaide Waste Management Authority, Central Adelaide Waste and Recycling Authority, REPLAS, DC Cycle and Robe Transmutation.

As well as these new sites, WOW staff provided significant and ongoing support to those education sites already registered to get their WOW journey underway.

Website

The new WOW website was launched in April 2022 with a fresh new look, easy-to-use format, and up-to-date information. It can be accessed at www.wow.sa.gov.au.

Since its launch, the website has received 1,942 visits and around 6000 page views. The Nude Food page has proven the most visited page, with viewers looking at ways to reduce school lunchbox packaging.

The WOW newsletter was distributed to more than 900 subscribers to coincide with the new website launch.



Wipe out Waste website.

Resources

The WOW team continue to develop educational resources for schools to streamline their WOW Journey.

Development of a new litter focussed Single-Use Plastic (SUP) curriculum-linked lesson plan and resources for educators commenced during the year and will be available from term 3 2022. The litter focussed resource covers three inquiry topics including litter, single-use plastics, and reduce, reuse, compost, recycle.

Collaboration and partnerships

In 2021-2022 Wipe Out Waste celebrated nine years of partnership with Bright Spark Entertainment who provide the popular 'Wipe out Waste Wally Wizard' shows. Over the year the show was reviewed, and in conjunction with KESAB, a new performance was developed incorporating up-to-date information and circular economy themes. Following its first successful performance at Alberton Primary School the new Wally show was delivered to more than 3000 students from more than 30 education sites in SA, as well as being showcased at various science fairs across the state.

WOW has been supporting a lunchbox study being conducted by the University of Adelaide which focuses on nutritional and packaging trends in school lunchboxes. Information gathered will help inform development of WOW resources for sites and families in conjunction with the Department for Education Right Bite resources, due for launch in 2022.

WOW continued its relationship with Flinders University, providing support to STEM students for another semester of Science Connect. The Science Connect topic, 'compostable packaging' provided industry learning for STEM students and challenged them to explore the commercial viability of sustainably producing environmentally friendly single-use plastic alternatives in South Australia.

In collaboration with Green Adelaide, WOW also worked with students as part of the Young Environmental Leaders Program (YELP) empowering students to guide and implement best waste and recycling practices at their school.

KESAB's partnership with PIRSA continued over the year as WOW incorporated fruit fly messaging into all engagement activities, with key messaging delivered to approximately 10,000 students.

WOW in the regions

WOW and Bright Spark Entertainment connected with communities in the Greater Adelaide regions, delivering site support and WOW Wizard Shows in Kingston, Wattle Range, and the Riverland. Six schools hosted WOW Wizard shows, with around 2000 students and staff from 24 sites attending.

Also during these regional trips WOW staff met with school staff to discuss the WOW programs, engagement levels, waste and recycling efforts and how WOW can provide support to reach sustainability goals.



Wipe out Waste Wally Wizard show.

wipe out waste

Wipe Out Waste (WOW) is a South Australian initiative to support a whole school or site approach to waste reduction and avoidance.
Funded by Green Industries SA and delivered by KESAB environmental solutions.

Why engage with WOW?

- Reduce your waste** 82% of sites engaged with WOW reduced their waste within 1-2 years.
- Educational support** The roadmap to waste reduction on the next page outlines the journey to reach your waste reduction goals.
- Worked with WOW in the past?** We can help you rebuild momentum or tackle your next sustainability goal.
- Contact us!** Talk to one of our education officers about the WOW program. Call 8234 7255 or email admin@kesab.asn.au

Recycle Rethink Reduce Repair Reuse

wow.sa.gov.au KESAB environmental solutions Government of South Australia Green Industries SA

WOW engagement.

Wipe Out Waste



Wipe out Waste at Nature Fest.

WOW supported events

In October 2021 KESAB was pleased to host two events as part of the Nature Festival, including 'Papermaking with Natural Seeds and Dyes', and 'Deliciously Connected'. The events were amongst the first to sell out, with a lengthy waitlist.

There was a predominant focus on the WOW program, best waste and recycling practices, and Nude Food and food waste. The papermaking workshop attracted a variety of ages with all enjoying the hands-on activity coupled with education.

Deliciously Connected was supported by Prospect Community Garden, with volunteers lending a welcome hand to WOW staff who ran a cooking with food scraps / nude food focussed workshop.

The workshop also highlighted fruit fly safe food options for parents and children, as well as a scavenger hunt for the children that connected them with the likes of a beehive to make beeswax wraps and a compost to consider the process of recycling food scraps.

Science Alive, Australia's largest science fair was held in November 2021 with WOW once again involved with an informative educational stall with waste and science related environmental education and information about the WOW program and KESAB's other programs. KESAB also supported the event through the development and positioning of waste and recycling bin signage. As a direct result of the consultation with WOW a three-bin system was implemented for the first time at Science Alive. The event attracted more than 13,000 visitors.

WOW attended the Tonsley Fair and the Mt Barker and Victor Harbor Science Fairs. These events attracted 3,700 visitors collectively, with attendees visiting the WOW stand

over the event to test their knowledge of bin usage and learning all about waste and recycling through the fun, engaging and educational WOW Wizard Show.

After a gap in in-person awards in 2020 due to COVID-19, KESAB was thrilled to be able to once again hold the KESAB Awards in April 2022. The joint Awards in 2022 celebrated achievements in the WOW, Sustainable Communities and Road Watch programs.

The WOW team was thrilled to acknowledge the achievements of seven participating sites.

Robe Primary School won the award for the greatest reduction in materials to landfill for a primary school with a huge 94% decrease in material to landfill between their audits of 2015 and 2021. Of note also was the 86% reduction achieved by Elizabeth Grove Primary School (which sends only 22 litres of waste to landfill each day, across the entire school site, compared to 167 litres previously). Also of note is the 71% reduction by St. Michaels College at Beverly and the 35% reduction by Golden Grove High School. Eden Hills Kindergarten also received an award for the greatest reduction for a preschool.

The Lady George Kindergarten and St Michael's College both received Community and Culture Awards. Tenison Woods College and Charles Campbell College were both awarded for innovation.

It was great to see the engagement and genuine pride of these schools in their environmental achievements and community support.

WOW presented at the HASS Teacher Conference in May 2022, linking WOW with the history and geography of resource management in South Australia. The event was attended by 160 educators.

Showcase – Robe Primary School

Robe Primary School has engaged with WOW since 2015 and has benefitted from professional learning and engagement including: site waste assessments, teacher professional development, ongoing student support and education through curriculum-linked resources, as well as the Wally the Wipe Out Wizard Show.

Robe Primary School's achievements are worth a particular mention to illustrate the value of WOW with direct support and engagement. The school has introduced a 4-way bin separation system which operates in all areas of the school and is working very well due to student engagement and design of signage in each classroom, as well as the involvement from the whole of school community.

As a direct result of the WOW program, Robe Primary School is now achieving excellent diversion of materials for composting and recycling, which is equivalent to 89% less to landfill than the state average, based on a per person measure of total materials audited. This is a reduction of 94% and places the school 6th for the least amount of waste to landfill from a primary school in 15 years.

Schools – Wipe Out Waste: One on One School support

The one-on-one Wipe Out Waste school support program aims to work closely with schools through a short, intense period to improve school waste management and reduce material sent to landfill. This has important environmental, social, and financial benefits. By teaching good waste management practices in the school environment, students also have the knowledge to inform their families, friends, and wider community, with far reaching benefits.

As part of the focussed program the school can benefit from:

- Bin Materials Audit (BMA) & report
- Follow-up assembly presentation
- Follow-up staff meeting presentation
- One incursion of choice
- Ongoing contact and support via email & phone throughout program

KESAB engaged several primary sites through its partnership with Port Pirie Regional Council with sites now developing School Environmental Management Plans to set long-term sustainable goals.



Tennison Woods College.

Top image: Kanyaka Waterhole, Flinders Ranges & Outback;
South Australian Tourism Commission, Adam Bruzzone



Plastic items found in litter increased the most in 2021-2022. At the same time KESAB Road Watch volunteers reported an increase in littering of cans.



Litter Index

KESAB's formal litter counts began in 1998 and were conducted quarterly until 2015 when bi-annual counts, in May and November each year commenced. The May count is used as the benchmark for annual Litter Index KPI's.

Funded by State Government through Green Industries SA this important bi-annual detailed litter data collected over 151 sites provides evidence on the types, volumes and trends in litter found in South Australia. These comprehensive data sets provide longitudinal litter trend data and an ability to measure the effects of policy decisions and legislation, as well as examine littering trends and changing consumer behaviours.

At times KESAB has added specific additional items to the count to ensure it remains relevant. In 2020-2021, in response to the COVID-19 pandemic KESAB added single-use masks to the litter counts. Numbers of masks have shown a decline in the latest count.

KESAB also migrated its litter data sets onto an interactive dashboard format to allow for a more responsive and tailored approach to analysis of litter data in South Australia.

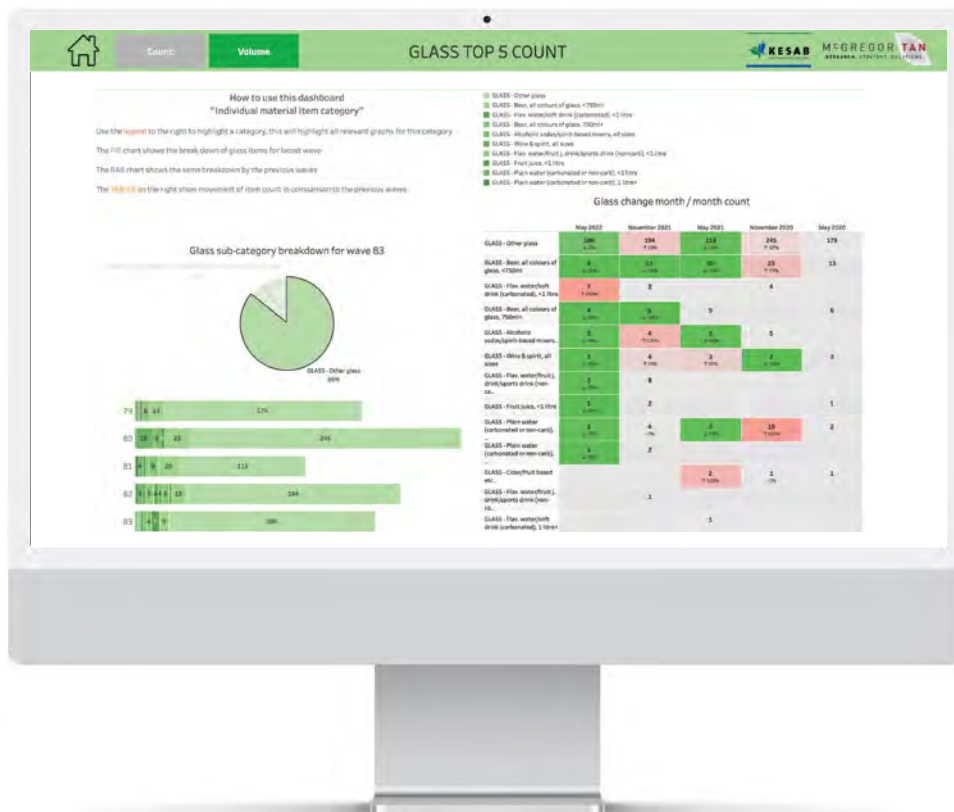
In May 2022 a total of 8,177 litter items were counted, which was a slight decrease on the November 2021 count but a marginal increase on the May 2021 count (7,821).

Plastic cigarette butts continued to be the dominant litter item in raw numbers of items collected (2,350 items) and 29% of total items counted, although a pleasing slight decrease over the two previous counts. Cigarette butts make up the smallest volume at 1%. The proportion of cigarette butts against the total number of litter items was highest at retail sites (60%), shopping centres, beaches and carparks.

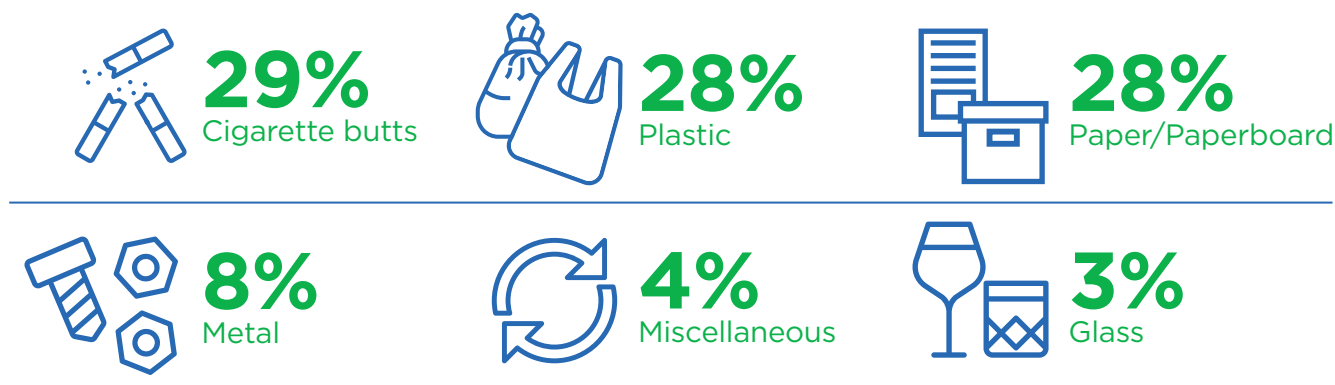
As well as cigarette butts the overall decrease in the numbers of items was also most strongly demonstrated by several litter types, snack bags and confectionery (down 28% since May 2021), paper cups/takeaway (down from 172 to 102 items), paper/paperboard (74 items down from 144), a huge decrease in heavier plastic bags (from 62 to 8), and plastic straws (36 items down from 75). The ongoing trend of these will be closely monitored.

Litter types which experienced the largest increase in number of items were plastic items, including fragments, coffee cups up a huge 181 items from 135 items, and paper bags/newspaper/magazines.

Dashboard



Items as proportions of total by material type



The majority of litter items (97%) are not CDS containers. However, CDS containers account for 96% of all beverage container counted in litter.

When considering litter items by volume, the largest proportion continues to be plastic items followed by paper and miscellaneous (which includes illegal dumping, clothing/textiles/construction materials and other items).

Litter count data is supplemented by data from KESAB's volunteer Road Watch groups who add data about most common items found on SA road corridors.

KESAB uses litter data to inform targeted community education and awareness campaigns and to evaluate the success of existing legislation, such as the Container Deposit Scheme, as well as to inform policy on new legislation.

Recycling / Litter Behaviour Omnibus Survey

KESAB took the opportunity to undertake market research on a number of common litter and recycling issues over the year including cigarette butts, container deposit scheme containers and coffee cups.

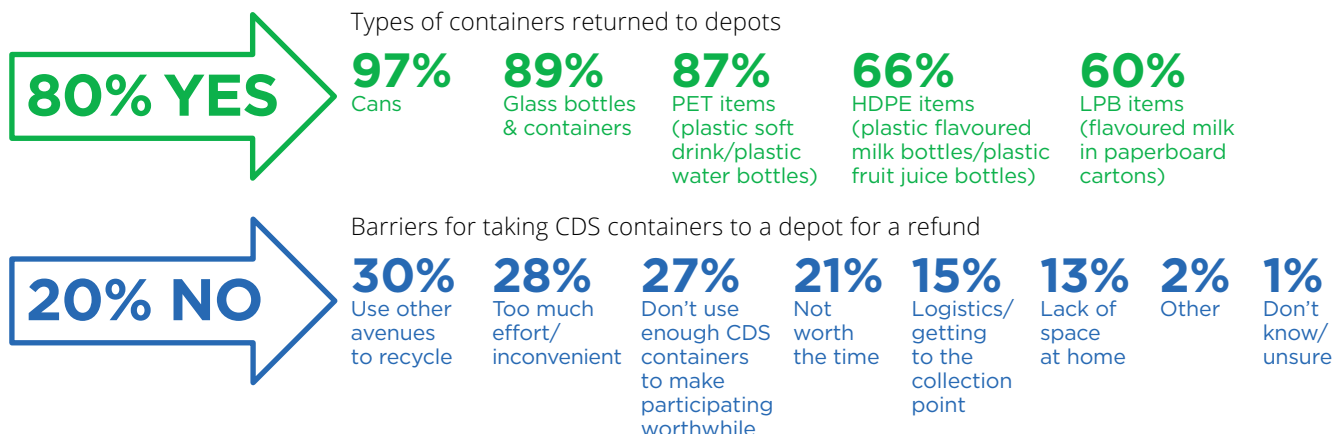
This survey showed while only 8% of respondents said they smoked, a full 15% of those said that they disposed of cigarette butts out the car window at least some of the time. Almost 2/3rds of all respondents said they were unaware cigarette butts were made of plastic.

80% of people return their container deposit containers to an approved depot with the most common items returned being cans, glass and PET containers (plastic soft drink and water bottles). Those who did not return items stated they either 'used other recycling avenues' (yellow lidded bin etc), or that returning was too much effort, or they didn't use enough containers.

When asking about takeaway coffee cups, 26% of respondents said they never used them, however 45% of people used them at least monthly. The most common disposal methods were recycling bin (35%) or landfill bin (35%). Those who purchased more often were more likely to consider the material of the cup, however only 1% brought their own cup. Business owners were the most likely to purchase disposable coffee cups at least weekly however one third of participants advised their businesses did not have a recycling bin and only one third had a bin for organics.

Around eight in ten return their containers to an approved depot

Returning containers to an approved depot



Waste Education Partnerships

Each year KESAB *environmental solutions* partners with South Australian local councils and industry clients to measure, develop and deliver quality waste and recycling education projects, programs and strategies, which supports these partners to achieve waste management objectives, positive environmental outcomes and move SA closer to a circular economy.



Spero Chapley, AFS Director, with their new compostable shopping bags.

Industry Partners

Adelaide's Finest Supermarkets

KESAB was pleased to continue its partnership with Adelaide's Finest Supermarkets (AFS) over the 2021 financial year working with them closely to develop their first Sustainability Plan.

KESAB has been working with AFS since 2018 and this solid understanding of their business and of their genuine leadership and commitment to sustainability enabled KESAB to work closely with their team and specialised contractors to document, plan and support their visions for leadership through their Sustainability Plan.

In 2020 Adelaide's Finest Supermarkets was the first in South Australia to introduce sustainability initiatives including extensive bulk buy options, compostable produce bags and packaging, a container reuse scheme (Swap and Go) and most recently introduce compostable check-out shopping bags.

AFS's team work tirelessly to deliver premium experiences in store and KESAB was pleased to facilitate a number of sold-out events including sustainability tours of the Pasadena store, as part of the celebration of Adelaide being named as the world's second National Park City.

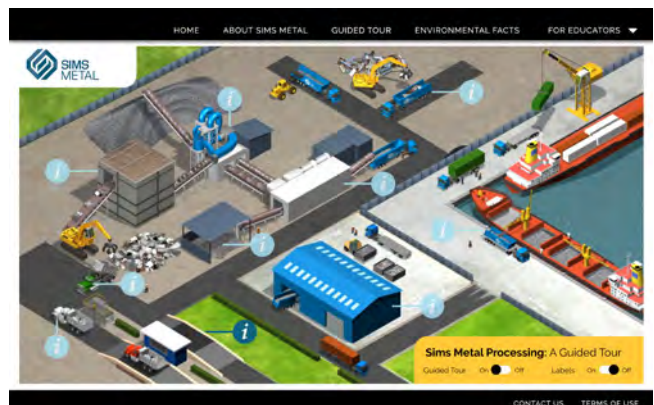
Tours included discussion of the sustainability activities of AFS as well as an especially curated high tea made by in-house chef with menu items made from commonly 'wasted' food items.

In 2021, KESAB worked with AFS and local plant-based chef Rebecca Stonor from 'Just Eat Plants' to deliver a conscious dinner on the Winter solstice at the Frewville store.

KESAB looks forward to our ongoing partnership with AFS in future years.



AFS/KESAB in-store Sustainability Tour.



Sims Metal Processing: A Guided Tour.

Sims Metal Management

Sims Metal Management has been a long-term and valued partner of KESAB. Sim's educational hands-on activity at the KESAB Education Centre and the Sims Metal interactive microsite, at kesab.asn.au/kesab-blog/sims-metal-management-interactive both continued to be popular for community groups and schools over the year. First launched in 2017, the Sims microsite received 1,144 page views over the year, with the 'guided tour' being the number one page viewed. There were 214 downloads from the site, and the 'recover, recycle' worksheet was the most popular. A related incursion is in the process of being developed by KESAB.

KESAB's partnership has also facilitated tours on-site at Sims Metal Management for KESAB's community and business 'Beyond the Kerb' tours with positive feedback from all participants.

Statewide Recycling

Another key relationship for KESAB in the waste industry is the ongoing partnership with Statewide Recycling. While over the year the on-site education centre continued to be closed due to the ongoing impacts and restrictions of COVID-19, Statewide's support enabled KESAB to commence the development of a specific interactive website for students covering resource recovery of containers covered by the 10c deposit. This website will be launched in 2022/2023.

2021-2022 Regional Forums

KESAB partnered with GISA to host a regional stakeholder forum and site in Whyalla. Participants included local government, waste industry stakeholders and community to discuss the State Government's Food Waste Strategy and regionally specific waste issues.

In partnership with LEGATUS (the trading name of the central local government region which comprises 15 local council members) KESAB presented a two-day conference in Watervale in May. This conference discussed collaboration between council and community to improve resource recovery, support local community initiatives for a circular economy and reduce waste to landfill. Attendees comprised key local council and community stakeholders and the diverse program included excellent presentations from GISA, local government, community service groups and others.



KESAB/LEGATUS Clare Valley SA Waste and Recycling Conference.

Local Government Partners

KESAB was proud to form and continue its strong ongoing partnerships with many local councils in South Australia over the financial year including; the City of Unley, Port Pirie Regional Council, City of Port Augusta, Light Regional Council, Copper Coast Council, City of Whyalla, City of Tea Tree Gully, and all councils serviced by the East Waste Management Authority in South Australia.

Through these partnerships KESAB delivered impactful and proven circular economy focussed education programs to schools and communities. These programs educate, and enhance awareness and understanding of best waste and recycling practices across education sites, businesses, and the general community. Our programs were well received and have proven results in reductions in waste and improved resource recovery.

The Port Pirie Truck Art Competition, an initiative of Port Pirie Regional Council, was a stand out for the year. Part of the council's ongoing commitment to provide the community with opportunities to learn and engage in best waste and recycling practices, students created a piece of artwork that celebrated the theme 'let's send less to landfill' and had to convey the importance of recycling and / or environmental benefits. Four winners were selected with their artwork then enlarged to cover the side of waste collection vehicles and a street sweeper. Each winning student was visited by the truck at their school with their winning artwork on it to celebrate.



Whyalla regional forum panel session.



Whyalla regional meeting site tour.

Waste Education Partnerships



Port Pirie truck art competition.

KESAB Education Centre (KEC) visits

While the KESAB Education Centre, hosted at Integrated Waste Services (IWS) was unfortunately closed for school sessions for a period due to COVID-19, KESAB provided excursion sessions to more than 52 classes, involving 1,400 students, teachers, and parents. Of these, 495 students attended through council partnerships from both metropolitan and regional South Australia.



KESAB Education Centre.

School incursions and excursions

Despite continued restrictions due to the COVID-19, over the 2021-2022 financial year KESAB delivered 202 incursions to more than 5,792 students at education sites, a majority of which benefitted from their Council's partnership with KESAB.

Subsidised incursions made it possible for education sites to access KESAB's resources and knowledge and to strive to work towards a circular economy and become sustainable citizens. Recycle Relays were the most frequently booked incursion (83 sessions) followed by papermaking (39 sessions), and beeswax wraps (25 sessions). The new 'Journey of My Food' incursion, which explores with participants the real cost of common meals when considering water, transport and other costs was also popular with 17 sessions delivered.



KESAB Education Centre.

Showcase – the City of Unley’s ‘Take the Pledge’ Program

KESAB continues to roll out and support the City of Unley’s successful Take the Pledge program, now in its 7th year. The program asks residents to ‘Take the Pledge’ to commit to putting all food scraps into their organics bin, and to focus on reducing contamination in their recycling bin.

This year, KESAB conducted random bin inspections in the area and it was encouraging to find over half of the bins inspected only contained the right items. Participants were rewarded with a voucher. An additional 151 households signed to ‘Take the Pledge’ over the year, a reassuring assessment of the increased commitment to resource recovery in this community.

A bin materials audit of households participating in the program (conducted in May 2022) found that the amount of food (kg) in the landfill bin had decreased since the previous audit in 2018, with an increase of food scraps in the organics bin seen over the same period. A reduction in contamination in recycling bins was also found, which was a positive result from program participants.



The Journey of My Bins activity.

Community and Business Tours

KESAB once again ran its successful ‘Beyond the Kerb’ tours over the year for community. Twelve tours were run with 233 attendees. These tours provided participants with hands on opportunities to see, smell and learn how their waste and recycling is processed in South Australia and to ask questions of key SA waste businesses.

Residents of East Waste Management Authority councils as well as the Cities of Unley and Whyalla took part in tours over the year.

KESAB also conducted several ‘Beyond the Kerb’ tours aimed at SA business participants which also covered the collection and processing of not only kerbside but also business waste and these also proved popular and will continue.

KESAB sincerely thanks its partners in the waste industry for their generosity in allowing KESAB tours to attend premises and for providing their expertise and knowledge. These include; IWS, Jeffries, CAWRA, Sims Metal Management, YCA Recycling, Suez-ResourceCo, Electronic Recycling Australia, Ecocycle, Restore, and The Joinery.

Community Waste and Recycling Presentations, Workshops and Displays

Over the year, KESAB continued to engage with community through in-person workshops, presentations and event displays. In total 68 KESAB workshops were delivered including; Beeswax Wraps, Papermaking, Get Creative with Food Scraps, DIY Cleaning and Personal Care Products and Compost/Worm/Garden workshops. These workshops engaged more than 1570 residents from all over South Australia. Half of these workshops were supported financially through local councils, including City of Port Adelaide Enfield, East Waste Management Authority councils, Light Regional Council, Copper Coast Council, Port Pire Council, Port Augusta, Tea Tree Gully, The City of Unley and the District Council of Mt Barker.



KESAB Waste Education Business Tour CAWRA.




David and Troy at the KESAB Waste Education Bus Tour.



Whyalla Community Tour.

Top image: Kangaroo Island Marine Adventures,
Kangaroo Island; Tourism Australia, Greg Snell



An underwater photograph showing three dolphins swimming in a clear blue-green sea above a dense field of green seagrass. In the foreground, a large, tangled pile of thick, grey ropes is visible, partially obscuring the bottom of the frame. A white text box is overlaid on the right side of the image.

Plastic accounts for 85% of marine litter. If we do nothing, this will mean approximately 50kg of plastic per metre of coastline worldwide by 2040.

UN environment programme 2021

Litter Less

It was another positive year in the MARS Wrigley/KESAB partnership with KESAB continuing to deliver and develop Litter Less, an education program designed to engage students in Years 4 to 7 to develop awareness, understanding and actioning of litter issues at school, in the community and the environment.

The Litter Less school education microsite, housed on the KESAB website introduces students to the concept of litter, what litter is, and how it spreads. Students engaged in the Litter Less unit of work participate in a sample litter audit in the school grounds, analyse the results and identify the types of litter found, what the litter hotspots are, and consider bin infrastructure and placement. Students then develop an action plan for their school to reduce litter, often focusing on 'nude food', which complements messaging and resources under the WOW program. The Litter Less incursion is available to all education sites in SA.

Over the year, KESAB continued its partnership with the Marine Discovery Centre, delivered key messages and interactives from the MARS Wrigley Litter Less resource to 17 classes and 426 students from Years 3 to Year 6.

KESAB was also pleased to deliver Litter Less to hundreds of students from schools including Blackwood Primary School, Immanuel College, Thorndon Park Primary School, One Tree Hill Primary School and Charles Campbell College in the metropolitan area, and One Tree Hill Primary School, Port Pirie West Primary School and Birdwood Primary School in regional SA.

The new KESAB Education Centre located at Integrated Waste Services (IWS) with the sea lion swimming in litter artwork is a key focus in the education centre. The Litter Less program is discussed as part of the education program delivery. More than 1,300 students as well as staff and helpers attended the KESAB Education Centre, learning about the impact of littering and what they can do to avoid it.



The Litter Less microsite had 2,500 page views over 12 months, with the interactives, Larry Litter Story and unit of work proving to be the most popular pages to visit for litter education.

To further support engagement with Litter Less, KESAB commenced development of a new Litter Less app. Through this game, players will be informed how litter and other loose items can negatively impact the environment. Players will be encouraged to click on the environment and begin the clean-up process by accepting 'missions'. A clean-up 'mission' is performed with players collecting items to visibly transform the environment by gathering and sorting items for correct management.



Delivering Litter Less at the KESAB Education Centre.

KESAB has managed the Which Bin 1300 137 118 hotline on behalf of Green Industries SA since April 2016.

The Which Bin hotline information service is an important part of the Which Bin campaign and allows consumers to obtain up-to-date and relevant information about how to avoid and manage their waste and recycling.

Over the 2020-2021 financial year KESAB responded to 1060 calls to the Which Bin Hotline. This represented a 24% increase in received calls from 2019-2020.

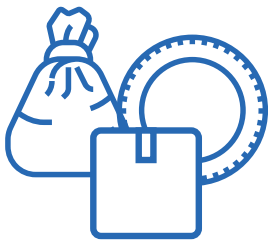
TV commercials, radio advertising and social media posts (including those from KESAB) have contributed to making this a popular and effective information service. The wider 'Which Bin' campaign was also been supported by a number of councils through their own communication channels including street banners, website information and print media.

Of the total enquiries to the 'Which Bin' hotline over the period 2021–2022, 54% of telephone calls and emails regarded where to put items in the household three-bin system. See the infographic below for the subjects of hotline enquiries.

This 'Which Bin' hotline service and information provided by KESAB staff has prevented many items from ending up in the incorrect waste stream and from contaminating valuable recycling and organics streams. KESAB also continued to use the 'Which Bin' name for the community presentation which has been delivered to a range of community groups across SA and supports the Which Bin messaging and education of the community about the resource.



Which Bin Enquiries 2021-2022



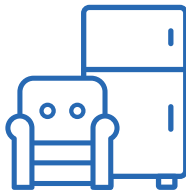
25%
Waste Landfill



19%
Other



18%
Dry Recycling



12%
Hard Rubbish
or Transfer
Station



11%
Organics



04%
Hazardous Waste



04%
Soft Plastics



03%
Special Waste
ie X-Rays, Globes



03%
Electronic Waste



01%
Business Enquiry



00%
CDL 10c
Recycling

Road Watch

Road Watch-Adopt A Road was proud to celebrate its 25th year in 2021. The Department for Infrastructure & Transport has supported the Road Watch program since 1996, striving to ensure roadsides are kept clean and our environments are conserved.

Over 25 years hundreds of groups have contributed thousands of hours picking up roadside litter and positively contributing to the preservation of the environment and to the amenity of local communities and tourists.

Many Road Watch volunteers have shared with KESAB that working outdoors cleaning up the roadsides is incredibly rewarding and has given them a sense of purpose, provided a network of friends, and has kept them physically active.

KESAB was pleased to once again host our KESAB Awards in 2021. It was a pleasure to recognise the work of some of our volunteer groups, and congratulate award winners; Rubbish Riders, who use bicycle trailers to assist their clean-ups along the bikeway of the Northern Connector Motorway for Innovation; Gavin Smith, a long-term volunteer who has established multiple groups over the years for Communication, and Fiona Bennet for the 30+ hours she contributes annually, for Dedication.

Over 2021, there were more than 60 active Road Watch volunteer groups who submitted hundreds of reports to KESAB following their clean-up activities. This level of activity is impressive given the ongoing impacts of COVID-19 over the year and that Volunteering SA-NT has noted the dramatic decline that has impacted the sector. The reports submitted detail findings of their clean ups and these provide a snapshot of specific litter issues which can inform litter campaigns, policy development and waste management initiatives. See the infographic on the following page for the most commonly found litter items between June 2021 and June 2022.

Single-use plastics continue to be major litter items collected. SA Government bans in 2021 on single-use plastic items has made an impact on items such as straws being as prominent in roadside litter.

In 2021 KESAB was pleased to have additional businesses join the Road Watch program, including the SA Police Union and construction company Hansen Yuncken, who have also engaged KESAB to rollout Clean Site® training at their Flinders University construction project.

Nineteen Hansen Yuncken staff pro-actively took responsibility for litter management at both the construction area and the surrounds during site development.

While the KESAB Awards recognised specific individual volunteers, KESAB appreciates the work of all the 560 registered Road Watch volunteers who work tirelessly to clean up our roads and make a substantial contribution to the preserving our environment.

The unique Road Watch partnership between the Department for Infrastructure and Transport, KESAB and volunteers provides huge and measurable benefits to SA's amenity, community and the environment. KESAB is proud to have been driving this program for 25 years.



Road Watch award winner Gavin Smith.



Road Watch award winners Rubbish Riders.





Hansen Yuncken Road Watch group.



Road Watch Lions.

Common litter items



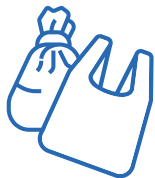
30%
Cans (210)



27%
Plastic Bottles (190)



24%
Food Wrappers (170)



08%
Plastic Bags (52)



03%
Construction material (21)



03%
House hold items (17)



02%
Cigarette butts (16)



02%
Clothing (14)



01%
Tyres (9)

Sustainable Communities Awards

The KESAB Sustainable Communities program started as Tidy Towns in 1978, and three decades later it grew to be an iconic South Australian environmental education and action program. In 2008, the program moved into a new era: Sustainable Communities. The program remains community focused and has been broadened to cover environmental sustainability, heritage or wellbeing initiatives and more.

Now held biennially, the Sustainable Communities program is about telling community stories, getting people together to help their local towns, schools and businesses and being proud of what they have achieved. It's about celebrating SA's local communities, about protecting, conserving, managing, and improving the environment.

Award categories are broad to allow for a diversity of initiatives and to support the interconnectedness of communities and activities.

All entries submitted projects for multiple categories including:

1. Appearance, amenities & facilities
2. Community action & partnerships
3. Environmental sustainability & education
4. Health & wellbeing
5. Heritage & culture
6. Leadership & youth activities
7. Natural environmental management
8. Resource recovery, waste management, litter prevention and enforcement

The 2021-2022 Sustainable Communities Awards were held together with the KESAB Road Watch and WOW awards in April 2022 and live-streamed across Australia.

There was an extremely high calibre of entries which were narrowed down to two finalists: the Copper Coast and Kimba. Both regional communities demonstrated that even in COVID-19 challenged times, people can and do work together to progress sustainable initiatives with an increased emphasis on health and wellbeing.

Both the Copper Coast and Kimba demonstrated fantastic work across the categories and are commended for their efforts which included:

Copper Coast Council

- Kadina & Moonta Cemeteries-Wall Restoration
- Kadina Hockey Club-installation of synthetic pitch
- Bee Hotels
- SA Masters Games
- Moonta Town Hall revitalisation
- North beach sand drift management plan
- Implementation of food organics and green organics (FOGO) kerbside collection to residents and business

District Council of Kimba

- Kimba Recreation Reserve
- Building Community & Business Capacity Project
- Agricultural sector sustainability & education
- Kimba Health & wellbeing initiatives – Our Town
- Kimba & Gawler Ranges historical museum
- Leadership and youth within the Kimba community
- Rooraa Dam stormwater catchment project
- Waste & recycling community collaboration

Kimba was named the overall winner and KESAB congratulates all entrants for the extremely high calibre of entries.

SA winner Kimba was entered into the Keep Australia Beautiful Sustainable Communities national awards. KESAB was hugely proud to see Kimba win both the national Environmental Sustainability – Water Award and Environmental Communication and Engagement Awards.



Winners of the Sustainable Community Awards.



Kimba – BBQ Area.



Copper Coast – Bee Hotels.



Kimba – Getting people active for the Health & Wellness Weekend.



Kimba – General Store.



Karoonda – Tree planting.



Karoonda – Tree planting.

The Green Adelaide Education Team is funded by the Green Adelaide Board and proudly hosted at KESAB *environmental solutions*, with a vision of seeing all schools and preschools creating a cooler, greener, wilder and more climate-resilient Adelaide by working with their communities to develop the knowledge, skills and values to live sustainably.

The COVID-19 pandemic, coupled with the development of the new Nature Education approach delivered by the education team, continued to significantly reduce the usual community engagement approaches over the 2020-2021 financial year. This necessitated new ways of supporting schools to embrace Green Adelaide's priorities across their sites and learning areas.

Barriers to working face-to-face with schools, loss of staff capacity due to COVID-19 infections and impacts of family members suffering from COVID-19 disrupted teams significantly across the year. This meant there was a drop in the engagement with some sites and activities, but despite the disruption there was still strong engagement with schools and the community.



The 2021/22 Green Adelaide Education (Central Adelaide) team.



Green Adelaide Education Fast Facts – Central Adelaide

- 101 schools and preschools engaged with Green Adelaide Education; 73 of these are registered with the Australian Sustainable Schools Initiative in South Australia (AuSSI-SA). A total of 3,668 students, children, staff and parents were directly involved in activities.
- 12 teacher training events; 87 educators from 16 schools and preschools attended.
- 5 sites in the Central Adelaide region received Green Adelaide Grassroots Grants. Sites were supported by education officers with the application and planning process, including having the opportunity to attend a grant writing workshop.
- 77 new resources were developed, including card memory games (aquatic macroinvertebrates, common urban and bushland birds, frogs, ants, and butterflies), biodiversity audit tools (for frogs, native bees, possums/bats, reptiles, birds and butterflies to use in school grounds), case studies, and newsletter articles (featuring iconic native flora and fauna species).
- 10 community talks and field days were held, including supporting City of West Torrens Arbor Day planting, Mark Oliphant Awards Expo, Seeds for Change Sustainability Fair, Science Alive and the Nature Play SA Forest Festival. As well as talks about all things frogs as part of the FrogWatch SA program and FrogSpotter app promotion. These activities had a reach of over 4,394 members of the community.
- 7 Youth Environment Council (YEC) of South Australia events coordinated and facilitated – including 2021 online catchups (for members to share progress and troubleshoot ideas), online workshop on spotting fake news, Sharing and Celebration Forum, a consultation workshop so members could feed into the Container Deposit Legislation (CDL) reform. YEC events for 2022 included the YEC Mentor Day, Welcome Forum and the Arbury Park Outdoor Camp.

Key Partnerships and Events

Green Adelaide recognises that partnerships are a key ingredient to the success of its programs. The Green Adelaide Education team prides itself on connecting and partnering with local government, non-government organisations (NGOs), businesses and State Government departments on projects to leverage support and resources available to schools and preschools, in order to learn with their communities about living more sustainably.

Over the last twelve months, Green Adelaide Education (Central Adelaide) staff worked with ten partner organisations on a range of activities.

National Park City

The international National Park City Foundation awarded Adelaide National Park City status in 2021. This made Adelaide the first city in Australia and second in the world (after London) to receive the honour. Adelaide National Park City covers all of Greater Adelaide, from Salisbury to the north, Aldinga to the south, Burnside to the east, and Grange to the west, plus the city centre.

Adelaide was awarded this honour because; it has been consistently rated as one of the world's most liveable cities, with excellent food and wine, clean coastlines, beautiful hills, iconic wildlife, as well as national and conservation parks, and local reserves. Adelaide's nature is special and unique, with 30% green space, and diverse wildlife, 1,080 native plant species and 281 native species of birds, 60 native fish species and 47 native mammal species, plus more than 58 species of reptiles.

Adelaide also has a community with a love of nature and 95% of Adelaide residents only need to travel around 400 metres to connect with an open, green area.

Currently Green Adelaide is leading the National Park City movement, with the long-term goal being that the community takes ownership. Cooling, Greening and Rewilding projects are being delivered to demonstrate Green Adelaide's commitment to help improve people's connection with nature. This is only the beginning of a journey to improve city life through everyday actions to enjoy connecting with nature and each other. This is the tipping point to promote and connect people with on-ground action, to look after our environment for everyone's health and wellbeing, as well as boost our economy through increased tourism.

Frogwatch SA

Green Adelaide staff member Steve Walker continued to coordinate and manage the FrogWatch SA program.

During the 2021-2022 financial year, Steve analysed 459 surveys submitted by 108 different participants.

Recordings were made throughout South Australia, including in the South East; Eyre Peninsula; SA Murray Darling Basin; North East; North West; Flinders Ranges; Yorke Peninsula; Adelaide and Mount Lofty Ranges; and Kangaroo Island regions.

Eighteen different frog species or call races were detected, including the vulnerable Southern Bell Frog, and the rare Bibron's Toadlet. As in the last three years, recordings of the Spotted-thighed Frog on Eyre Peninsula continued to be made. This species from Western Australia has become established in some wetland areas in Streaky Bay.

Most surveys were made in and around the metropolitan area. This year, the most commonly recorded species was the Spotted Marsh Frog, which was recorded during more than half of all surveys. This was closely followed by the Common Froglet and the Eastern Banjo Frog. All three species have wide distributions throughout South Eastern Australia and tolerate urbanisation quite well. Peron's Tree Frog also continues to be included in numerous recordings, including its natural range in the Murray Valley as well as the Mt Lofty Ranges and parts of the metropolitan area where it has become established as a result of the pet trade.

Steve also supported FrogWatch SA through school and community presentations, webinars, field days and media events.

These included talks for the Stirling and Hills Garden Club; a webinar for students studying local flora and fauna at Urrbrae TAFE; a Frogs of the Adelaide Region talk and wetland night walk for Urrbrae Agricultural High School's student environment group; a frog talk for Scotch College students at Laratinga Wetlands; talks to students at the Brownhill Creek Environmental Action Day; and a stall at the Lobethal Garden Festival.



Steve presents 'Frogs of the Adelaide Region' talk before a night walk at Urrbrae Wetlands.

Nature Festival Workshops

As part of the support for the Nature Festival, the Green Adelaide Education team in the central region facilitated two events:

1. Nature By Night – participants were able to discover the creatures of the night in a fun and interactive ramble in the heart of the City at Pakapakanthi Park. Staff guided attendees to explore entire ecosystems and the amazing native wildlife. Adults and children engaged using their investigation skills to discover an array of birds, mammals, insects, frogs and other creatures that call the park home. The highlights were the geckos hiding in hollowed logs of fallen trees, possums, and the bugs congregating in the crevices of bark on living trees.
2. Coastal Treasure Hunt – held at Henley Beach South to discover the creatures, plants and other treasures that wash up on the shoreline. Families were encouraged by staff to look for weird and wonderful treasures on the beach, and guided discussions about the treasure that were found.

Both events were well received and encouraged participants to take a closer look at and connect with their local natural environments.



Creatures of the night at the Nature by Night walk in Pakapakanthi Park, Adelaide.



Elisia shines a light on gecko's hiding in a fallen log at the Nature by Night walk.

Science Alive

The display at Science Alive 2021 focussed on increased heating in urban areas and how to cool Adelaide by adding more greenery in public and private spaces. Heat mapping enabled members of the community able to engage with online heat maps and explore their neighbourhood hotspots. A table of heat lamps and laser thermometers demonstrated the different 'backyard' surface temperatures and staff spoke to participants about how hot spots could be cooled by the planting of trees, shrubs and by changing building materials.

Arbor Day

As part of the launch for Adelaide as a National Park City in June, staff supported the City of West Torrens with their Arbor Day community planting event on the River Torrens at Lockleys. Staff showcased aquatic macroinvertebrates and how they are used as indicators of water quality and how to identify the water critters. Community members were also able to take home copies of Green Adelaide resources, including the ID charts for local flora and fauna. Participants could also find out more about the National Park City movement and what being a National Park City means for Adelaide and its people.

World Environment Day at the Botanic Gardens

Staff ran 'Entomologist for a Day' activities to support the Botanic Gardens World Environment Day festivities. This involved educating the students about the role of entomologists, exploring what an insect is, the importance of insect biodiversity, and actions students can take to improve biological diversity in their own backyards or in the school yard. Students searched for and identified insects in the gardens.

Key Programs and Resources

Youth Environment Council of SA

The Youth Environment Council (YEC) has been running annually since 1997, enabling like-minded 11 to 17 year old students from across South Australia to come together, share their passion for the environment and run their own action projects in their local communities.

Staff delivered the YEC (a partnership with Department for Education) via the provision of leadership training, skill development, enabling collaboration, project planning and mentoring projects to empower 56 students from 37 schools across SA. A total of seven events were run during the financial year:

A special interest online meeting was also held for members who were interested in media literacy and how to spot fake news.

A fourth 2021 online catchup was a presentation and Q&A opportunity with a past YEC member and School Strike 4 Climate representative. Members also shared and troubleshooted their YEC project progress.

Green Adelaide also held Container Deposit Legislation consultation with YEC members to provide feedback on improving South Australia's Container Deposit Scheme. Staff provided members with a summary of the overall document, pulling out the key facts and questions, with some more detail about the process. The member feedback was formed into a group response and submitted to the Government review.

The final event for 2021 was a Sharing and Celebration Forum, which had to be switched from a face-to-face event to an online event with only a few days' notice due to COVID-19 risks. Despite the changes, 27 students attended and shared the projects they had been working on throughout the year. The session included guest talks from Green Adelaide Board member, Louka Parry, and Vienna Tran from the Premiers Climate Change Council. Teachers and parents were able to join at various points to see student presentations.

The first YEC event for 2022 was a Mentor Training Day. Seven new mentors helped Green Adelaide staff plan the year's YEC activities. This enabled mentors to develop their self-confidence, leadership, public speaking and group work skills by acting as encouraging and supportive role models for the younger YEC students. Mentors will also deliver engaging activities to help the YEC members bond into a united council during the year.

During the training, the mentors were asked to remember the challenges they experienced when first arriving at YEC events, brainstorm what makes effective leaders, understand their own thinking and learning styles, develop skills in starting and holding conversations, and other techniques to support their fellow YEC members.

The mentoring program is an integral part of training emerging leaders in the Youth Environment Council.

The 2022 Welcome Forum was the first event with all members present. Mentors were able to put their newly developed leadership skills into practice at this event in Belair National Park. The day included nature connection activities, team activities and an introduction to planning the projects that the members will each work on during the year.

Year 8 student Samaira sees the YEC as 'a great opportunity to be empowered and motivated to make a change'.

Green Adelaide

Other members felt the same way about meeting a network of others who could support them to promote and conserve our environment. Jackson, in Year 11, remarked 'this is a great way to meet new people and gain new experiences, which is an important aspect of looking after the land'.

Year 9 student Tamara added, 'I'm really enjoying meeting like-minded people who feel the same way I do and having a chance to make a difference in my community'.

At the year's highlight, the YEC Camp at Arbury Park Outdoor School, members were involved in both outdoor and indoor activities with the aims of building leadership skills, linking explicit learning to real world practice, and developing and planning the environmental projects they'll carry out as part of their involvement in the YEC.

The student projects are based around sustainability issues that they consider important in their school, local community or more widely. Among the wide range of topics they hope to tackle with their projects are revegetating to increase biodiversity; educating people

about climate change; creating bee hotels; waste recovery at school; encouraging people to clean up dog waste; establishing a native food garden; and beach clean-ups.

Arbury Park Outdoor School property contains a series of interconnected wetlands, native woodland, a revegetation area alongside Cox Creek, and other engaging outdoors learning areas. These provided ideal conditions for students to deepen their knowledge of sustainability issues and increase their leadership, problem solving and team building skills.

Staff from Green Adelaide Education and the school collaborated to deliver a fun program that actively encouraged the members to connect with nature, challenge themselves and think deeply about their goals.

The members were asked for their favourite activity at the camp, with many listing orienteering; the night frog walk; Landcare along Cox Creek; hearing from mentor Keira about her experiences volunteering; team building activities; and project planning as highlights.



YEC Members 2022.



YEC Members restore bushland at Arbury Park Outdoor School.



YEC team-building activities.



YEC Members connect with nature in Belair National Park.

Climate Ready Schools



St Mary's College Students share their rooftop garden project with Green Adelaide staff at the Climate Ready Schools Expo.

Green Adelaide held our Climate Ready Schools Expo at the Thebarton Community Centre in November for schools who were involved in the 2021 Climate Ready Schools program.

Schools involved in the program use the online Climate Ready Schools package to learn about the causes and impacts of climate change on biodiversity, water security and other local issues affecting Adelaide. With the support of teachers and Green Adelaide Education staff, students used a problem-solving approach to developing potential solutions to adapt to living with climate change.

Sixty-seven students from seven of the schools involved in the program showcased solutions they had developed and prototyped to address local climate change issues. They displayed and explained their projects to a group of guests that included Kim Krebs, Manger, Resilient Communities at Green Adelaide; representatives from Cities of Onkaparinga, Marion, West Torrens and Salisbury; the Department for Education; the Department for Environment and Water; the Premier's Climate Change Council Youth member; Resilient East, Adapt West and Resilient South; and representatives from the Kaurna Nation and the Green Adelaide Board.

A panel including Aunty Lynette Crocker, Kim Krebs, Tobias Turner and Bec Taylor reflected on the students' work and the opportunities for implementing these initiatives.

A teacher said, 'Our students loved applying their knowledge to Adelaide and found it to be really meaningful work. We loved watching the students become increasingly engaged and passionate about this topic'.

A student said that as a result of climate ready schools they feel inspired to 'Help Green Adelaide and other organisations make our home a better place. I also want to do more about making my {project} come to life'.

The Climate Ready Schools program is a partnership between Green Adelaide Education, and the Resilient South, Adapt West and Resilient East Regional Climate Partnerships. This is the fourth year of the Climate Ready Schools program.

COVID-19 has shown that team resilience and adaptability are vital in both the community and the natural environment. This duality is worth noting because future shocks are almost certain to continue to emerge. It is in our interests to prepare staff and build engagement models that better prepare people and our urban environments to be resilient and adaptable. Exploring the greater use of online resources, tools and platforms to improve our reach and levels of engagement with better efficiencies and investing in new technologies to better enable staff to work and deliver outcomes online will be an ongoing focus for Green Adelaide.

Waste Audits

Over the 2021-2022 financial year KESAB's experienced audit team conducted small and large scale kerbside and commercial waste audits for a variety of partners and clients.

These inspections, assessments and audits follow the recognised Zero Waste (now Green Industries SA) audit methodology to collect, sort, measure and record waste across the three bin systems into almost 60 categories. These audits provide critical data and information to benchmark waste diversion and recovery efforts and to, critically, shape future policy directions and education programs and campaigns to change behaviour and maximise resource recovery. Ongoing periodic waste audits provide rigorous comparative data of diversion from landfill as well as waste contamination.

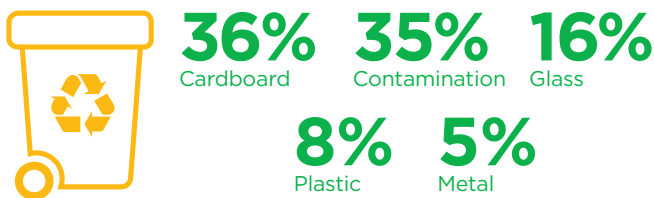
Snapshot - Whyalla Waste Audit

- Sample size: 100 bins each stream (total 300 bins)
- Total: 3778kg materials audited
 - 1120kg General
 - 822kg Recycling
 - 1836kg Organics

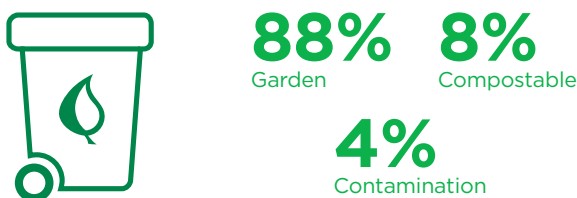
Landfill



Recycling



Organics







Clean Site® program coordinator, Dick Olesinski delivering an environmental toolbox to Hansen Yuncken contractors on the Flinders Health Medical Research Project.

During 2021-2022, KESAB's Clean Site® program continued to provide relevant construction industry training. Developed in partnership with the Construction Industry Training Board, government agencies, industry associations, and the building and construction industry.

The Clean Site® program encourages waste avoidance and reduction, diversion from landfill, prevention of stormwater pollution and stormwater management, erosion and sediment controls, recycling and resource recovery and litter management. Clean Site® training content focuses on EPA legislation with regulations and codes of practice for stormwater pollution prevention as well as local government requirements.

Over the financial year KESAB continued to deliver Clean Site® training through the CITB and toolbox inductions to the state-wide network of high school students through the Construction Industry Training Board's Doorways2Construction program. This training, which is provided within a school environment and supports on-site

practical experience, is delivered with resources developed by key stakeholders and reviewed to meet environmental sustainability and any changes in legislation.

Despite another COVID-19 interrupted school year and in the face of increasing costs due to fuel prices KESAB was pleased to be able to deliver in-school training via the 'Doorways' program to approximately 400 students across South Australia, including from metropolitan, west coast, south-east and Riverland regions.

KESAB was also pleased to partner with major construction company, Hansen Yuncken on the Flinders Health Medical Research Project at Bedford Park. Hansen Yuncken has demonstrated its commitment to sustainability engaging KESAB to regularly deliver the Clean Site® environmental toolbox, provide support with site educational material development and assist with site clean-up as part of KESAB's Road Watch program.

KESAB's Clean Site® training program continues to provide effective, direct and practical methods for students entering the construction industry and existing contractors to comply with environmental legislation to reduce impacts on the environment through minimisation of on-site waste and recovery of resources. Participants are exposed to the principles of the circular economy as well as the need to protect stormwater systems for a sustainable future.



Congratulations
2022 KESAB



Sustainable Communities
are n



Worried about waste?
Check your fridge temperature!



3-4 C is ideal to keep food fresh



Batteries can be recycled, but
NOT in the yellow-lidded
recycling bin



Recycling
Eco

Regional SA V
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WASTE & RECYCLING
FACILITY TOUR

Thursday September 30th
9am - 2:45pm

Join KESAB on a FREE tour of our waste and recycling facilities and discover where your landfill material goes, how your food scraps become valuable compost and how electronics, plastics and metals are recycled.

Bookings Essential - Seats are limited!
Call KESAB on 8234 7255 or email
aliekesab.asn.au

SOUTH AUSTRALIA WILL BAN SINGLE-USE PLASTICS

The pathway to banning single-use plastics

Banned when legislation starts

- Single-use plastic straws, plastic cutlery and plastic stirrers
Drinking straws with a sipping cap required for people with a disability or medical requirement

Banned 12 months after legislation's introduction

- Expanded polystyrene cups, bowls, plates and clamshell containers, all products with oxo-degradable plastic

Further analysis and consultation

- Takeaway coffee cups, plastic bags, other takeaway food service items

greenindustries.sa.gov.au/plastics

FREE Beeswax wrap making workshop

Back by popular demand, Port Augusta Council are offering FREE beeswax wrap making workshops for residents, hosted by KESAB environmental solutions.

All participants will get to make a wrap to take home with them, plus DIY instructions for making more.

Sunday, November 21st
3:30pm - 5:00pm

Port Augusta City Council | KESAB



Fruit fly affected fruit and vegetables cannot be moved from the greater metropolitan Adelaide suspension area.

Congratulations to all recipients of the 2022 KESAB annual awards!

Tins of paint CANNOT go into the yellow lidded recycling bin Unless they are empty and dry

KESAB

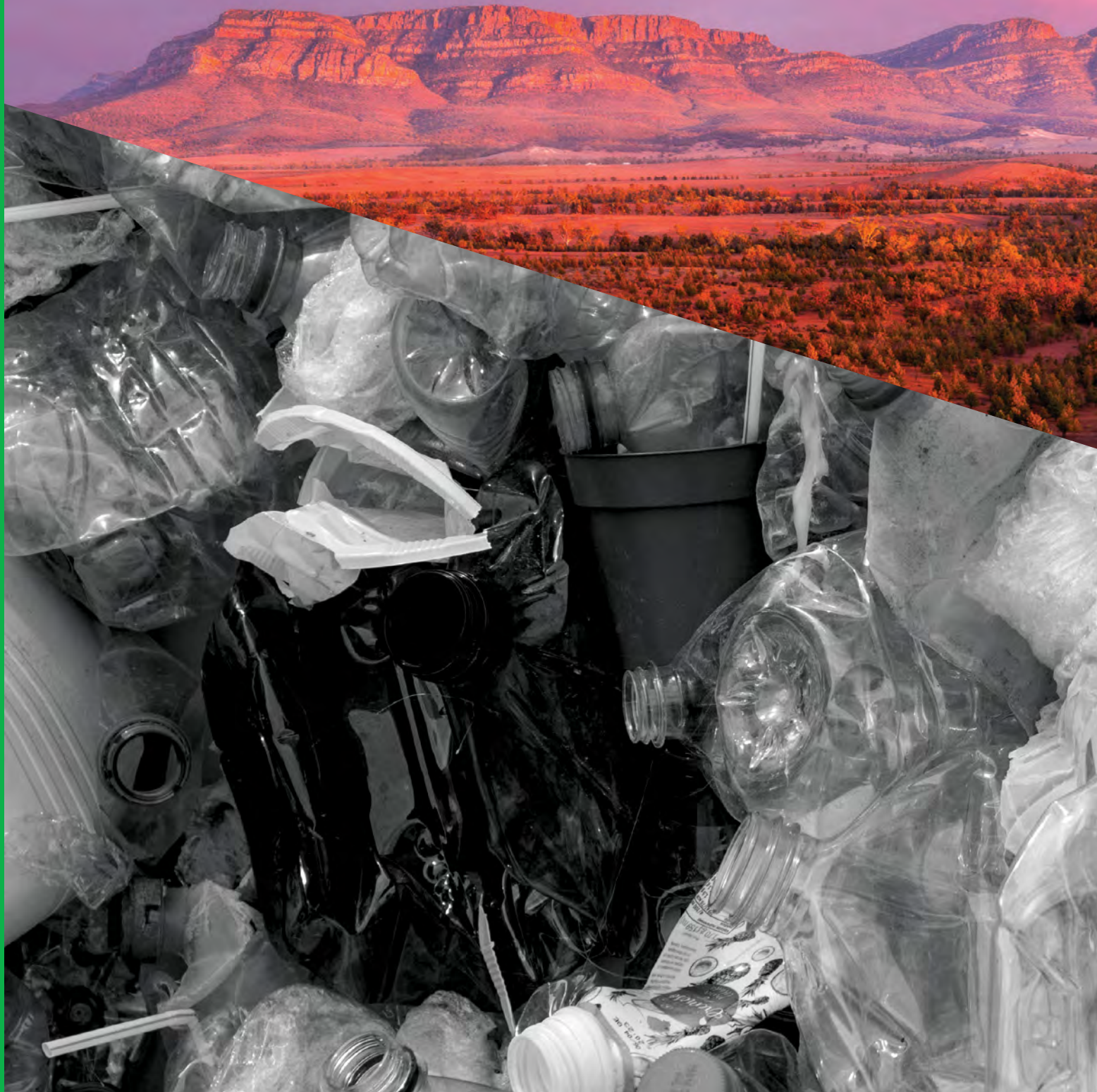


Social Media Snapshot

As well as in person, KESAB engaged with community, business, industry and education sites across a number of media platforms over the year. This included television, radio, social media, via our websites and microsites, and through online personal development and training sessions.

KESAB's social media reach of almost half a million provides a base upon which to build awareness of not only KESAB's programs but also on important local messaging on immediate and time critical issues such as management of fruit fly outbreak. These platforms also enable KESAB to further its reach to educate and inform on circular economy principles as well as on real, practical ways people can make long lasting positive behaviour change. While messaging varies depending on audience and platform, the 'tip and hints' as usual proved very popular.

Top image: Wilpena Pound, Flinders Ranges & Outback,
Ikara-Flinders Ranges National Park; Michael Waterhouse





In 2019/2020 South Australians generated almost 672,000 tonnes of kerbside waste. Only 47.6% of this was recovered. South Australia outperforms every other state / territory in Australia.

GISA SA's Recycling Activity Survey 2019-2020 Report



Acknowledgments

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NWS 9

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 Recyclers of South Australia Inc.
 ResourceCo
 Royal Agricultural & Horticultural Society
 Rural Press
 SA Water
 Scout Recycling Centre
 Sims Metal Management Australia
 Statewide Recycling
 The Advertiser
 The District Council of Yorke Peninsula
 Toolbox Graphic Design
 Veolia Environmental Services
 VISY Recycling
 Water + Waste Innovations
 WMRR—SA Chapter
 YCA Recycling

Top image: Superb Fairy-wren; Sputnik



An estimated one third of food produced globally goes to waste. This is a humanitarian, environmental and ecological catastrophe.



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Top image: Dolphin Beach, Yorke Peninsula,
Dhilba Guuranda-Innes National Park; Ben Goode

