

Preserve

2020-2021

Improve

ANNUAL REPORT

Protect

A misty, layered landscape of rolling hills and valleys, with the word "Respect" overlaid in large white text. The scene is captured in a soft, hazy light, likely during dawn or dusk, with the hills receding into the distance, creating a sense of depth and tranquility. The foreground shows dark, silhouetted trees and foliage, while the middle ground and background are filled with layers of hills and valleys, each partially obscured by a light mist or fog. The overall color palette is muted, with soft blues, greys, and greens, contributing to a peaceful and atmospheric mood.

Respect

COVER: EMU BAY – SOUTH AUSTRALIAN TOURISM COMMISSION – ELLIOT GRAFTON
THIS PAGE: VIEW FROM BLACK HILL – SPUTNIK

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Over the past year South Australia has once again proven to be a leader in environmental policy and waste management.

We should be proud of our state's reputation as a clean, green and progressive city, even more so after being crowned the most liveable city in Australia and the third most liveable city in the world.

In 2020 and 2021, I was proud to release the South Australian Government's Climate Change Action Plan 2021-2025, South Australia's Waste Strategy 2020-2025 and the country's first ever dedicated Food Waste Strategy. Of course, in March 2020 we saw the first wave of single-use plastic products being banned from supply, sale and distribution in South Australia. This pioneering ban proves our government's strong leadership and commitment to less waste, more efficient resource recovery and a more circular economy.

In May, the state and Federal governments partnered to provide South Australia's recycling industry with its biggest ever investment: \$111 million for eight new projects to build and modernise key infrastructure. The projects will create hundreds of jobs, thanks to \$35.3 million of joint state and Australian Government funding under the Recycling Modernisation Fund, dramatically boost the state's ability to process waste in the wake of the bans on the export of unprocessed waste plastic, paper and cardboard, glass and tyres.

I thank KESAB for continuing to be an important and influential environmental and waste industry partner through its representation on key industry forums progressing both the bans on single-use plastics and the review of the Container Deposit Scheme. KESAB has also continued to deliver the Wipe Out Waste schools program. KESAB plays an incredibly important role in helping school-aged kids to learn about, and become passionate about, waste, recycling and the circular economy. This is such an important program that will help shape the future of environmental awareness amongst the next generation.

I was pleased to recognise KESAB's very own Ms Grace Barila, Environmental Services Manager, as joint winner of the Green Industries SA Women in Circular Economy Leadership Award for 2020. This award recognises the contribution of emerging and established women leaders who are making a positive contribution to South Australia's waste and resource recovery industry and promoting the transition to the circular economy. Grace is a very deserving joint-winner.

I would also like to thank Ms Deepa Mathew for being my representative on the KESAB Board of Directors for the past three years, and I wish her well in her next endeavours.



Hon. David Speirs MP.
Minister for Environment and Water

Ms Grace Barila, KESAB with The Hon. Minister Speirs, MP



KESAB environmental solutions is the leading NGO for litter reduction and finding solutions to reducing waste in South Australia through education and measurement.

Our purpose, to drive positive environmental change in industry and the community, was reviewed this year in the KESAB *environmental solutions* Strategic Plan 2021-2025.

The strategic planning process was facilitated independently and has again been a collaborative effort between the Board and staff considering KESAB *environmental solutions'* role to progress leading-edge community and industry actions to reduce waste and promote a circular economy. KESAB's Strategic Plan is available on the KESAB website.

Central to KESAB *environmental solutions* are the values and areas of focus. The Strategic Plan opens the door to manufacturing, food waste, and retail industries. Particular to this year it involves: progressing our leadership role in supporting the development of the circular economy through organics reuse and the extension of the list of single-use plastics being banned from use; delivering KESAB programs in community education; developing and embedding the learnings of COVID-19 into our business actions; growing KESAB through the new KESAB Education Centre opened at Wingfield; becoming involved with a wider range of industries, and expanding the social media profile supporting the organisation's regional and on-line activities. The Board is focused on governance and continuing the strong and stable engagement with the organisation through a balance of skills and an active role with KESAB's programs.

The community awareness and support for organics recovery and next use is exciting. The opportunities to separate and recover food waste have been embraced and we look forward to supporting this enthusiasm by strengthening connections in education and through waste audits to encourage both.

KESAB has been privileged to be part of the Government's planning to implement the Food Waste Strategy and the review of the Single-Use Plastics legislation and, with regional connections, is helping roll out the Government strategies across South Australia.

We look forward to working with the community and our partners to take the KESAB message more widely.

KESAB with Green Industries SA continues to conduct and maintain the 40 year record of litter monitoring in South Australia. We seek to ensure this valued data and proven and supported methodology remains relevant in informing litter policy in South Australia, keeping the state on the cutting-edge of litter control.

This year the Board thought it fitting to bestow life membership on John Phillips OAM for his tireless support of KESAB over 30 years. This honour was presented at "JP's" farewell dinner amongst staff and partners of KESAB and was a well-deserved recognition.

Over the past year Wendy has demonstrated enthusiasm to participate in KESAB's purpose and has steered the organisation through challenging and changing COVID-19 times. The Board thank her and the staff for their continued dedication and input to the direction and success of KESAB.

The Board is excited about KESAB's vision for the future. Special thanks to the Board for their assistance and guidance, and to our partners for their support.

A handwritten signature in black ink, appearing to read 'Ros De Garis'. The signature is fluid and cursive, with a long horizontal stroke at the end.

Ros De Garis Chair



The 2020-2021 financial year was challenging but positive for KESAB *environmental solutions*. COVID-19 continued to bring uncertainty with the threat of lockdowns and with restrictions ever-present in planning and delivery of our programs.

The EOFY result and that KESAB met all its obligations, on time, on budget and at high quality is in no small part due to the commitment, dedication and professionalism of the entire KESAB and Green Adelaide teams and I thank them all sincerely for their commitment, flexibility and sheer hard work.

KESAB developed its next five-year Strategic Plan, which aims to build on the trust KESAB has in the community and ensure it is a top-of-mind environmental, not-for-profit organisation working for the benefit of the community for many years to come. We will do that through our strategic goals; Engagement and Leadership, Program Delivery, Creating Future Growth and Governance, and Financial Stability.

KESAB's strong partnerships with, Green Industries SA (Wipe out Waste, KESAB Education Centre (KEC), Which Bin Hotline, Litter Index); SA Water (Source to Tap); Department for Transport (Road Watch); Sims Metal; Statewide Recycling; East Waste; Green Adelaide, and Mars Wrigley (Litterless) continued in 2019-2020 providing high quality environmental education and resources – all working towards KESAB's purpose to drive positive environmental change in industry and the community for this State.

Our relationships with metropolitan and regional councils in SA and the NT strengthened during the year through the delivery of waste education, community engagement and schools' programs, as well as waste audits and assessments. The City of Unley is where face-to-face education, community events and the 'Take the Pledge' program has shown real results in reductions in waste to landfill, reduced bin contamination and measurable increases in organics to the 'green bin'.

KESAB developed its business base over the year with "Beyond the Kerb" tours as well as delivering waste audits for a number of key businesses including CRG (Foodlands Pasadena and Frewville) and SeaLink. It was great to be part of the roll out of compostable barrier bags by Adelaide's Finest Supermarkets (Foodlands Pasadena and Frewville). Sincere leadership and commitment by this leading group is showing real results.

KESAB was delighted to jointly host a series of three regional forums with Green Industries SA to launch their Food Waste Strategy, "Valuing our Food Waste". Engaging with local waste industry representatives, councils and other key stakeholders in the Riverland, Mount Gambier and Whyalla, plus site visits to many local businesses, enabled valuable discussions on key regional waste issues. Planning is underway for KESAB to undertake further regional visits in 2020-2021.

I was thrilled to see the completion of the new purpose built KESAB Education Centre (KEC), built with the generous support of Integrated Waste Services (IWS), the Borelli family and Green Industries SA. The Centre is visually beautiful, the activities engaging and feedback from students, teachers and the public has been hugely positive. Page 18 of this Report has further detail on KEC.

The Cleansite® Program was disrupted by COVID over the financial year, but still delivered to more than 800 students. KESAB was also proud to deliver this program during construction of Woolcock Industries award-winning 10-Star SUHO home.

KESAB's proudly hosted 'Green Adelaide' team continued to deliver engaging and informative environmental programs, including Climate Ready Schools, the Youth Environment Council and of course Frogwatch SA. The value of this partnership with KESAB cannot be understated, as collaboration across our groups provides synergies and opportunities to work together and enhance each of our own programs for the betterment of the community, and SA.

I was pleased to continue KESAB's representation on the Government's Single-use Plastics (SUP) Taskforce and CDL Reference Group. The ban of the first wave of SUP plastics commenced in March 2020 with work now underway on the next items to be banned.



KESAB 'Beyond the Kerb' Business Tour at IWS



2020 KESAB Minister's Breakfast



Launch of compostable barrier bags, Pasadena Foodland

While COVID-19 has meant little interstate travel, KESAB has maintained a proactive working relationship with its 'sister' Keep Australia Beautiful organisations in each state, and the KAB National office, meeting at least monthly to discuss issues of national and joint interest. One of these is the review of the National Litter Index (NLI) methodology was developed by KESAB, with data sets and trendline information spanning more than thirty years. Paramount to any review is the importance of ensuring the ongoing integrity of this data.

Closer to home the year saw upgrades of KESAB's IT system, a re-skin of the KESAB website and the paint refresh of our building at Flinders Park. There is always more to be done.

2020-2021 represented my first full year as CEO of KESAB. It has been a busy and richly rewarding year and I would like to extend my thanks to KESAB staff, 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 and I would like to thank them as well for their ongoing support.

Wendy Bevan CEO

WIPE OUT WASTE

Wipe out Waste (WOW) is a resource recovery and waste reduction initiative for education facilities across South Australia that provides professional learning for education staff, school site audits and assessments, and online resources.

The Wipe Out Waste (WOW) program is funded by Green Industries SA and delivered by KESAB *environmental solutions*. WOW is also supported by KESAB's other school incursions, excursions, and programs.

A new Wipe Out Waste Engagement Level model was developed over 2020-2021 enabling schools to track their progress, celebrate the achievements and work to become a sustainable education site. Through WOW, KESAB fosters trusted and meaningful long-term relationships with education sites to make positive and enduring change.

Development and construction of a new 'Wipe Out Waste' website also commenced during the year. This will contain additional resources and information for educators and will be completed in the 2021-2022 financial year.

Despite the ongoing challenges of COVID-19, Wipe Out Waste "Wally" shows were delivered live to thirteen audiences in South Australia, including seven performances in the Copper Coast Council area. These Wally shows were timed to coincide with the Copper Coast FOGO (Food Organics Garden Organics) roll out. Four performances were also delivered in Port Augusta City Council and two in Roxby Downs Council. More than 2,600 students and staff attended these performances.

WOW Professional Learning events continued online via KESAB's virtual 'Holiday Field Trips' in July and September of 2019 and in January and April of 2020. They reached 60 educators from 46 sites.

KESAB appreciates the support of the businesses who generously provided their time to present at these field trips. These included Advanced Plastic Recycling, Adelaide Resource Recovery, BioBag Australia, Cleanaway, DC Engineering 3D Printing, Electronics Recycling Australia, Integrated Waste Services, Jeffries, NAWMA and Replas (SA).

A face-to-face professional learning event was held in Wallaroo at the Copper Coast Resource Recovery Centre, with fifteen attendees from seven sites attending.

In May 2021 KESAB presented WOW at the Humanities and Social Sciences (HASS) SA Teacher's conference with an information stand for the 138 participants and a workshop 'What's SUP? Single-use plastic and more'.

Science Alive, Australia's largest science fair, was held in November 2019 at Wayville Showgrounds. KESAB ran a busy stall over the three days and featured a shortened WOW Show featuring Professor Planet ('cousin' of the WOW Wizard). This was a great way to engage families with attendees of around 100 people at each show. Very positive feedback was received with one parent stating, 'that show was great, they should have charged for it. Over 12,500 visitors attended the event over three days.



Science Alive

Twenty two Bin Material Audits (BMA) were conducted at education sites to assess the volume of waste going to landfill and how to divert and reduce it. Eden Hills Kindergarten continued to set an example with only 13 items sent to landfill in a day. Another site achieved an outstanding 86% reduction in materials to landfill.

A new promotional car wrap for the Wipe Out Waste van was designed and fitted.



KESAB WOW Van



Tonsley Science Fair

The website was viewed 18,000 in the past year, with over 11,000 of these being unique views.

KESAB Education Centre excursions, which support WOW messages, commenced and over 40 classes plus teachers and parent helpers attended between 24 February and 30 June 2020. Feedback has been excellent.

KESAB also attended science fairs at Tonsley in March, Mount Barker in May and Victor Harbor in June, with more than 6,500 attendees.

A special 'Bin' assembly was held by Elizabeth Grove Primary School to congratulate the school on their outstanding achievements. Please visit www.insidewaste.com.au/index.php/2020/11/17/how-an-sa-primary-school-reduced-waste-by-87-per-cent/ for more information.

It was also hugely pleasing to see Elizabeth Grove Primary School demonstrate the second-lowest landfill contribution from a school that Wipe Out Waste has seen in 15 years.

“The students really enjoyed the excursion – the new setup and activities were excellent! I thought all the activities were really useful and I particularly enjoyed the ‘lookout’ into the shed, seeing the amount of rubbish and watching the machines move it into the trucks – I could have stayed there for hours”

NATHAN RICE, TEACHER, WILDERNESS SCHOOL

A Bin Material Audit was conducted in August 2020 to compare the results with a previous audit in 2018. With the ongoing support of WOW, and the implementation of Bin Shift systems in the classrooms.

Elizabeth Grove Primary School now sends just 22 litres of waste to landfill each day, an 87% reduction on the school’s previous daily amount of 167 litres to landfill.

Resource separation has become part of daily classroom habits at Elizabeth Grove, with a five-bin system to collect 10c containers, paper/card, soft plastics, organics, and landfill material.

Year 6/7 students also created a business model for emptying all paper and 10c deposit bins as part of a business and economics class which included a roster and a payment system. The school aims to maintain the use of these bins in all classrooms, with the Year 6/7 bin-sorting business to continue.

A University of Adelaide research project titled: “School Food Environments: A lunchbox and waste audit in South Australian Public Schools/Preschools” has surveyed 12 primary and preschool sites to explore nutritional and packaging trends in current lunchboxes. After COVID-19 and fruit fly challenges, we congratulate Neha on her patience and perseverance. We look forward to the results in early 2022, which will inform the development of key messages for families around sustainable lunchboxes.

At the inaugural Food Fringe event, ‘Food Waste to Great Taste’ was held at the Adelaide Central Market with a focus on ways to avoid and reduce food waste in line with GISA priorities, engaging with up to 50 attendees. Cooking with food scraps recipes were distributed to attendees, which included some lunch box options. Lunch waste generates over 50% of the materials going into school bins.



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An aerial night photograph of a city, likely Johannesburg, showing a mix of modern glass-fronted buildings and older structures. A prominent road with light trails from traffic curves through the lower right. A green park area is visible in the lower left. The city lights create a vibrant, glowing backdrop.

community
environmental
count
and 700,000
hours

KESAB LITTER INDEX

KESAB, through its Litter Index, has collected and analysed litter collected in South Australia for more than 20 years.

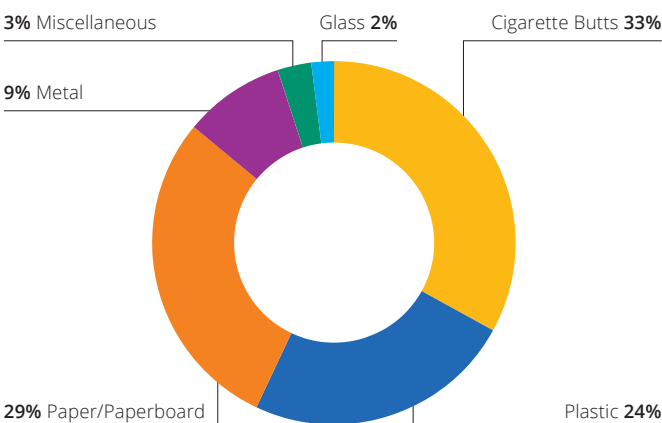
Funded by State Government through Green Industries SA, this important data continues to provide evidence on the types and volumes of litter found in SA. Litter counts are available to KESAB members.

The longevity of the KESAB litter count provides a comprehensive longitudinal data set with the ability to measure the effects of policy decisions, 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. Most recently single-use masks have been added. These will be reported in the next period. This statistically-sound litter data is complemented by information provided to KESAB by its Road Watch volunteers, who clean up roadsides 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, and to inform policy on new legislation. This has most recently included the development of Australia's first legislation to ban the use of single-use plastics, which commenced in March 2020. The prevalence of certain single-use plastics in the litter stream will also inform the next groups of items to be banned.

Litter monitoring is conducted in May and November each year, with the May count used as the benchmark for annual Litter Index KPI's.

ITEMS AS PROPORTIONS OF TOTAL BY MATERIAL TYPE



In total, 7,821 litter items were counted across the 151 South Australian sites during Wave 81 (May 2021). This figure is higher than the November 2020 (Wave 80) count of 6,958 items, and higher than that conducted the same time last year, May 2020 (Wave 79) of 6,212 items. This may be reflective of COVID-19 shutdowns and more takeaway meals etc, however it still represents a general downward trend in litter over time as well as seasonal variations.

Cigarette butts continued to be the dominant litter in raw numbers of items collected (2,550 items) an increase from both November 2020 (1,741) and May 2020 (1,946). Cigarette butts are the most prevalent single-use plastic item in litter. Proportionally, cigarette butts increased their dominance in litter at 33%.

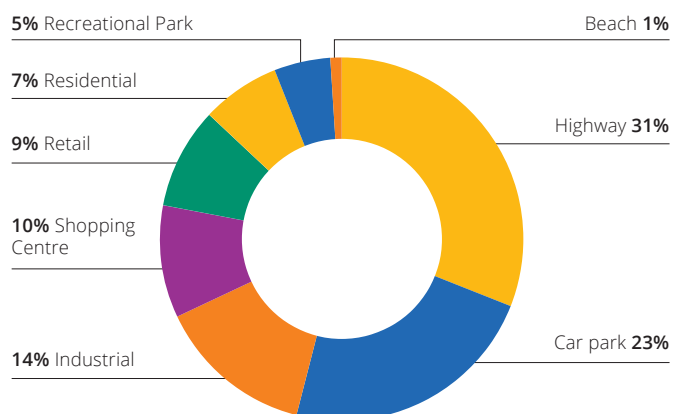
The overall increase in numbers of items was also most strongly demonstrated by other categories including: paper/paperboard (increase of 128 items); paper straws (new item) and metal and plastic bottle tops; coffee cups and other take-away containers. Items that experienced the largest decrease in the number of items were plastic straws, plastic cutlery, packaging and boxes, and other glass.

The effectiveness of the ban on plastic straws and cutlery is suggested in this data, as well as a concerning shift from litter plastic to paper straws.

The majority of litter items (97%) was non-beverage containers, however CDS beverage containers account for 87% of the 3% of beverage containers found in litter. This was down from 93% in November 2020.

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).

PROPORTION OF TOTAL LITTER ITEMS COUNTED BY SITE TYPE

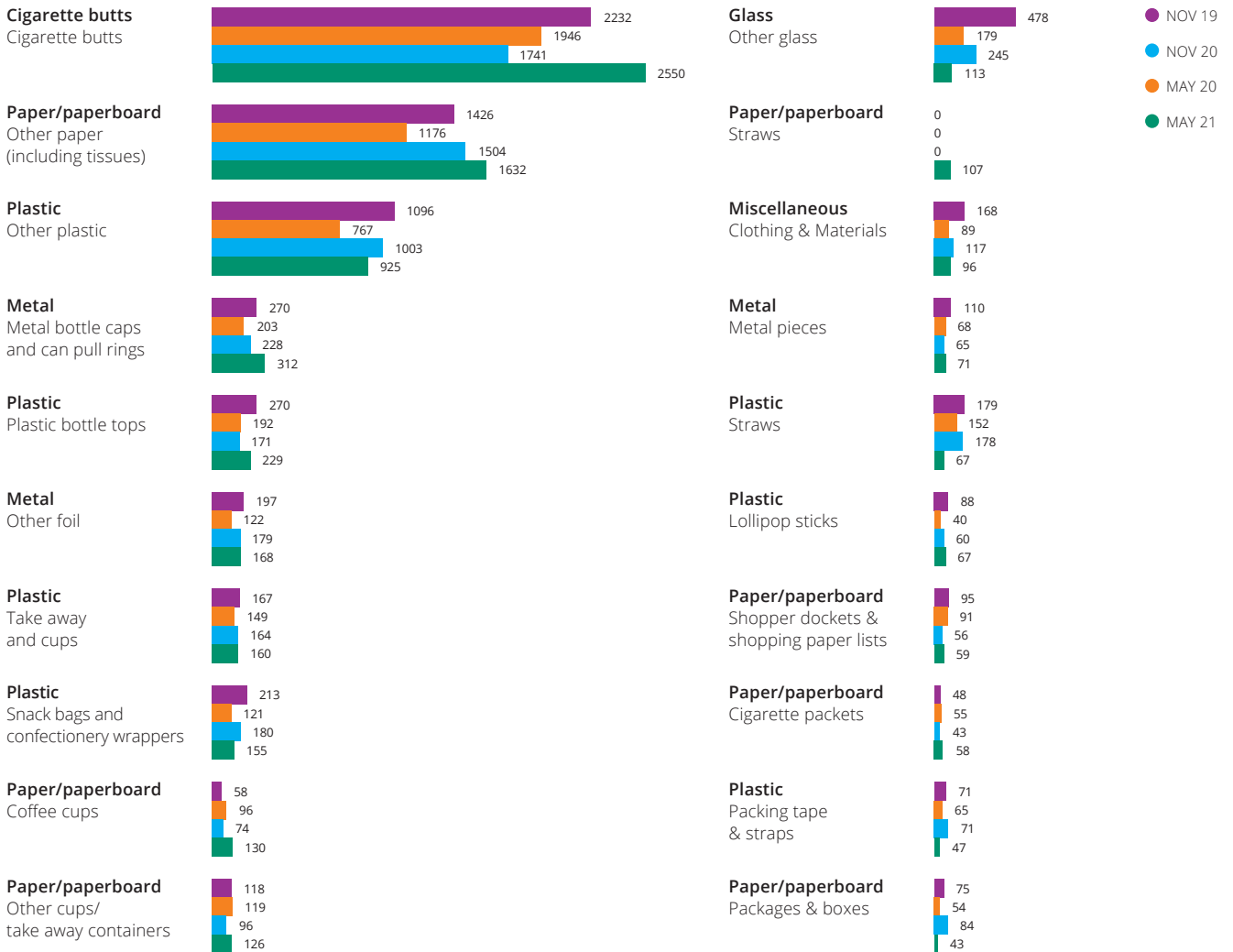


KESAB's litter index and the inclusion of new items such as single-use masks will ensure the counts remain relevant and are able to inform policy into the future. Going forward, development of a litter index dashboard will enhance the usability of this data.

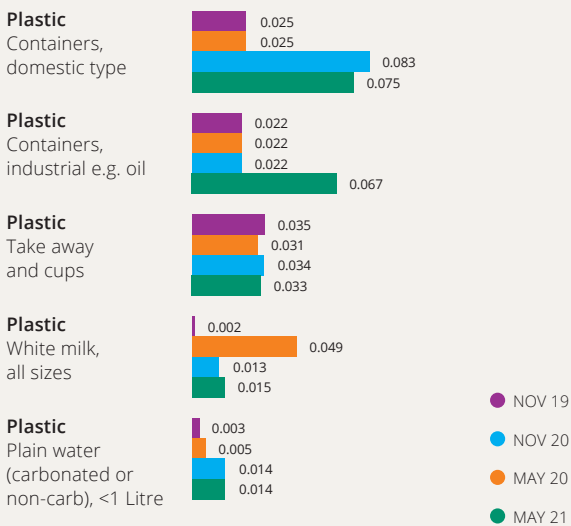
The National Litter Index

KESAB's data informs the National Litter Index, which has been under review. Results of this review are expected in the 2021-2022 financial year.

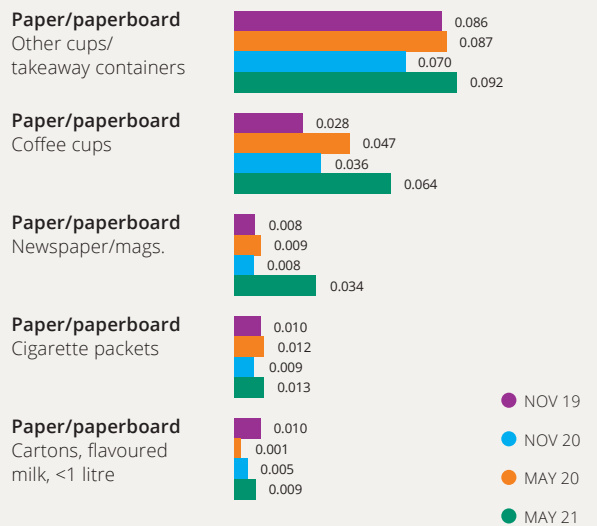
TOP 20 CATEGORIES – HIGHEST COUNTS



PLASTIC ITEMS COUNT – TOP 5



PAPER/PAPERBOARD VOLUME – TOP 5



WHICH BIN HOTLINE

This call-in community information service is an important part of the SA Government's broader 'Which Bin' program and provides up-to-date and relevant information about how to manage waste and recycling, and advises 'which bin' to place specific items into.

KESAB *environmental solutions* manages the 'Which Bin' 1300 137 118 hotline on behalf of Green Industries SA.

Over the financial year KESAB responded to 855 hotline enquiries, and this represented an 8.5% increase on the previous year.

A boost to the campaign in June which included TV commercials, radio advertisements and social media assisted in driving calls to the hotline. It continues to be a popular information service for the South Australian public. 'Which Bin' has also been supported by a number of councils in their own communication channels, such as street banners, website and print media.

Figure 1 shows enquiries received for the period 2020 – 2021 broken into various categories. The household 3-bin system accounted for over half of all calls and emails (57%).

KESAB staff who have diligently assisted the public with their queries have prevented many items from ending up in the wrong bin and contaminating valuable recycling and organics streams.

In 2020 KESAB adopted 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.

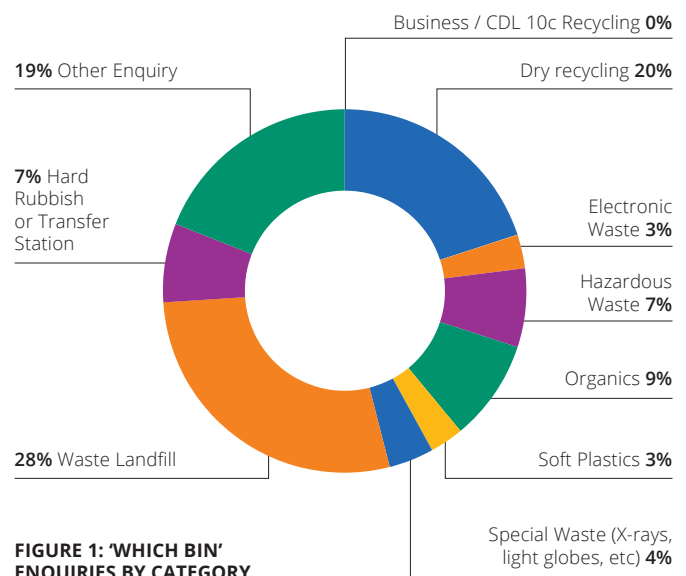


FIGURE 1: 'WHICH BIN' ENQUIRIES BY CATEGORY



KESAB WASTE EDUCATION PARTNERSHIPS

KESAB environmental solutions works closely with a selection of South Australian councils and industry clients to support, develop and deliver quality waste and recycling education programs and strategies to achieve their waste management objectives.

Industry Clients

Over the year KESAB continued its strong and productive partnership with the Commercial Retail Group (Frewille and Pasadena Foodlands) to achieve waste reduction targets. New initiatives included the launch of a range of fully compostable packaging and produce bags. The compostable products, made in South Australia by BioBag, are in all store departments – a South Australian first and KESAB is proud to be involved.

This initiative is estimated to save more than three million plastic bags per annum and it is the latest in a series of environmental initiatives for the Commercial Retail Group, including allowing customers to 'BYO' containers for bulk foods, deli products and meat.

KESAB's work with Frewille and Pasadena Foodlands has also greatly reduced the amount of in-house waste sent to landfill, through the introduction of organic waste separation and separate recycling for soft plastics and mixed recyclables. This included development of a 'Staff Training Booklet' and provision of an observation report with recommendations to begin waste separation practices.

Sims Metal has been a long-term partner of KESAB and generously supported the developed an interactive activity for installation at the new KESAB Education Centre.



Pasadena Foodland



Sims Metal's support also enable KESAB to include visits to Sims during its popular community 'Beyond the Kerb' tours, with positive feedback from all participants. KESAB continues to promote the Sims Metal interactive microsite, located within the KESAB website, to community groups and schools. This microsite was first launched in 2017 and was utilised over 300 times by educators in the last year.

Council Partnerships

KESAB has formed strong, ongoing partnerships with twelve local councils in South Australia including the Cities of Unley and Port Augusta; Port Pirie and Light Regional councils; Mount Barker District Council, and all councils serviced by the East Waste Management Authority in South Australia.

KESAB was pleased also to work with the City of Palmerston in the Northern Territory in 2020 to deliver school and community education. School delivery included Recycle Relays, Beeswax Wraps and papermaking incursions.

The community benefitted from hands-on community workshops, information stalls at key events and shopping centre displays. More than 5,000 household bins were tagged containing recycling information for residents.

KESAB delivered strategic education programs to enhance awareness and understanding of best waste and recycling practices across education sites, businesses, and the general community.

KESAB WASTE EDUCATION PARTNERSHIPS



Palmerston NT Community Workshop

Schools

ONE ON ONE SCHOOL SUPPORT

Over the year Port Pirie Regional Council chose to enhance its already held suite of KESAB school deliverables with a KESAB One-on-One schools-focussed education program, a testimony to the esteem in which KESAB's programs are held.

Other schools that benefitted from KESAB's One-on-One support over the past twelve months were Napperby Primary School, Crystal Brook Primary School, Goodwood Primary School, and Glen Osmond Primary School. These sites received a bin materials audit, a follow-up assembly presentation and a staff meeting presentation. Sites were also able to access KESAB's range of incursions of which Beeswax Wraps and Recycle Relay proved popular.

Outcomes of the One-on-One support included the implementation of bin systems to increase diversion from landfill, development of student environment groups, and regular Nude Food days.

Close partnerships with schools and school communities continued to provide a way to invigorate students, staff, and management and maximise the diversion of waste from landfill. This sets an example to the wider community and provides the opportunity to obtain valuable data for councils to inform policy and activities.

SCHOOL INCURSIONS AND EXCURSIONS

Over 2020-2021 KESAB staff delivered 248 incursions to more than 6,496 students at education sites 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 become sustainable citizens. Recycle Relays were the most frequently booked incursion (131) followed by Beeswax Wraps (59), and Compost and Worm Farm incursions (24). Litter Less and the new 'Journey of My Food' incursion also gained in popularity with 23 sessions delivered.

Since the new KESAB Education Centre opened in February 2021, more than 1,000 students, teachers and parents have visited. Of these, 14 classes attended through council partnerships from both metropolitan and regional South Australia.

Educational support was also provided to Copper Coast schools and preschools in the lead up to the Copper Coast rollout of Food Organics Green Organics (FOGO) bins in July.

School Sites were involved in Recycle Relay incursions, professional learning with educators, and Wipe Out Waste performances. A highlight was the 'Get to know your bin competition'. Schools created posters or short films with sustainable bin messages and winning films and posters were screened and displayed at the local cinema during school holidays as the FOGO bin rollout began. The films by Wallaroo Primary School can be viewed at <https://youtu.be/S8kaZ7WrLlw> and <https://youtu.be/V7JbPL-RACU>

Community Tours

KESAB ran its successful 'Beyond the Kerb' tours over the year for community. These tours provided attendees with the opportunity to learn how their waste and recycling is processed and to ask questions of key SA waste businesses.

Residents of East Waste Management Authority councils, City of Unley, and the Light and Port Pirie Regional Councils took part in tours over the year. KESAB also conducted private tours for residents of Norwood Payneham & St Peters and for the Multicultural Communities Council of SA.



COMMUNITY WASTE AND RECYCLING PRESENTATIONS, WORKSHOPS AND DISPLAYS

Seventy-eight community in-person workshops, presentations and event displays were delivered to approximately 2,135 residents and community group members of East Waste Management Authority councils and the Cities of Charles Sturt, Onkaparinga, Playford, Port Adelaide, Enfield, Port Augusta, Sailsbury, Tea Tree Gully and Unley, District Council of Mount Barker, the Light and Port Pirie Regional Councils, and Yorke Peninsula Council.

Waste Awareness Campaign – Going Green in Goodwood trial

KESAB was pleased to continue its strong partnership with the City of Unley through the delivery, education and evaluation of their six-month weekly organics collection trial, 'Going Green in Goodwood'.

The trial, which ran from November 2020 to April 2021, provided the opportunity for just over 500 households in the suburb of Goodwood to present their organics bin for collection on a weekly basis, encouraging them to divert more food organics from their landfill bins.

Prior to commencement of the trial, KESAB coordinated a face-to-face education campaign, visiting households in the trial area to discuss the upcoming changes to their organics bin collection, and provide them with a kitchen caddy to assist them in diverting food scraps to the organics bin. Bin inspections were conducted throughout the trial period to observe household behaviours.

KESAB conducted audits before and at the conclusion of the trial to identify the change in disposal habits with a weekly vs fortnightly organics collection. The final audit (with weekly organics) resulted in an overall reduction of 1.9kg/ household/week in the landfill bin, with most of this due to a reduction in food organics. The weekly organics collection also found more food being disposed of to the organics bin, also with slightly less contamination in the organics bin.

A celebration event was held in the green open space outside the Goodwood Community Centre after the completion of the trial. This provided a great opportunity to share the impressive results of the trial with the wider community and keep the conversations going about the importance of placing all food scraps into the organics bin.

Council Audits

Over the 2020-2021 financial year KESAB's experienced audit team conducted large-scale waste audit assessments for the City of Darwin, Wattle Range Council, and the City of West Torrens.

These audits provide councils with critical information to shape future education campaigns and allow tracking of changes in resident behaviour.



Waste Audit

University research

During the year Flinders University created the Science Connect program to provide third-year science students opportunities to engage with industry and provide a work-integrated learning experience. Under these partnerships, the university acts as the host organisation and offers industry the platform to pose questions for student exploration. KESAB was thrilled to partner with Jeffries Group and the University to pose an industry question which focussed on the identification and development of compostable materials/packaging.

Eleven students across two groups explored up to ten potential resources, with findings presented to industry stakeholders and fellow students. KESAB extends its sincere thanks and congratulates Flinders University and the students for their interesting research. KESAB also looks forward to a continued positive working relationship as the next cohort of students explore the commerciality of options identified by the first student cohort.

	Barbed-chitosan composite	Millit	Agarose-karrikin composite	Mycelium	Chitosan Mycelium Composite
Carbon footprint	Low	Low-Average	Low	Low	Low
Sustainability	Good	Good	Good	Good	Good
Availability in Australia	Poor	Poor	Poor/Unsure	Poor/Unsure	Poor
Durability	Good	Good	Good	Good	Good
Variability	Good	Unsure	Good	Good	Good
Manufacture time	Fast	Fast	Fast	Fast	Fast
Biode	Yes	Yes	Yes	Yes	Yes
Shelf life	3 years	12 months	Unsure	Unsure	6 months
Saratam 104756	Yes	Yes	Yes	Yes	Yes

Twenty five years after the establishment of KESAB's first education centre at the 'old' KESAB office on Glen Osmond Road, we continue to deliver our waste and recycling education through school excursions and tours from the brand new KESAB Education Centre which opened in February 2021.

KESAB New Education Centre

The KESAB Education Centre is a purpose-built education facility built with the generous support of IWS Wingfield and Green Industries SA, and it is located at IWS's Wingfield facility in the heart of one of South Australia's waste management and resource recovery precincts.

Development of the Centre took around nine months and doors opened to the first excursion on 25 February 2021.

Design and Development

An extensive process was undertaken in the development of programs and activities for the Centre by KESAB education staff, and with input from external experts and partners. One of the key outcomes was to expand the use of the Centre for adult groups, as well as preschool and early years children.

Starting from a high-level framework, new programs were developed which integrate learning about the value of waste management and recycling, key elements of the waste industry, and the circular economy, and which cater for all ages.

Three primary types of Centre visits have been developed; the 'Tour Stop' for adult groups, excursion for schools (Years 2 to 12) and younger years excursion (Kindy to Year 1).

The activities in the Education Centre focus on elements of the waste industry, including recycling and sorting systems, organics recycling and circular economy, household items and disposal options, trucks and fuel technology and the metal recycling process.

During development, experienced qualified teachers were engaged to review the activities for their educational value to ensure the best learning outcomes.

Classroom components of the KESAB Education Centre excursion are complemented by a tour of the wider IWS site including the observation platform, and a visit to Electronics Recycling Australia.

The KESAB Education Centre Building

Dedicated to Pasquale and Mafalda Borelli the Centre's construction was generously funded and managed by Integrated Waste Services (IWS).



Theme and Sculptures

KESAB engaged Showtrek to create and install sculptures in the Centre to support the environmental messages. The resultant artwork comprises a sea lion surrounded by fish which has been made from waste materials and bottles, and three 'wheelie bins' 'exploding' their waste contents. Scenic painting and programmable lighting are used to enhance the seascape theme in the Centre.

To encourage community and school engagement, KESAB ran a 'name the Sea Lion' competition. After some very difficult judging, the winning name was 'Lapisi' courtesy of the Year 4 class at Bethany Christian School in Paralowie. Lapisi means trash or rubbish in Samoan, a gentle nod to the pacific garbage patch and what happens if we don't better manage our waste.

The outdoor decking area is made from recycled plastics. The garden has a terrestrial theme with indigenous artwork and native planted garden accentuating the importance of land to the First Nation's people and our ongoing responsibility to care for the land.

The garden showcases IWS's work with Red Centre using native Australian flora that can be harvested for bush foods and products.



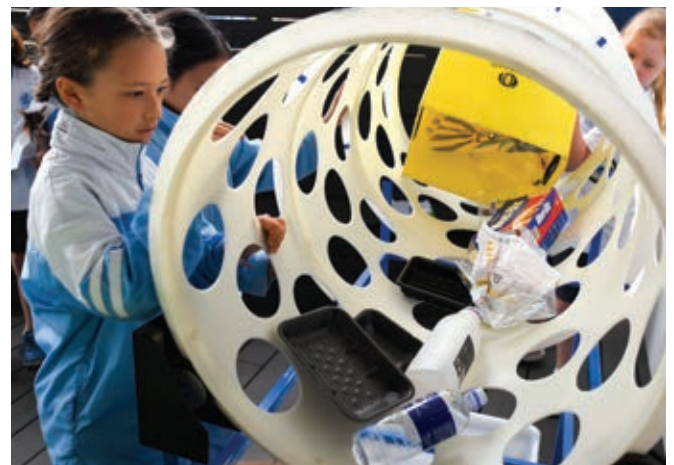
Toolbox were engaged to design the new signage for the Centre and site, and sign makers Read Brothers Signs, produced and installed all of the signage. This includes a prominently placed sign acknowledging the support of our partners in the development of the KESAB Education Centre.



Partnerships

The development of the KESAB Education Centre would not have occurred without the huge generosity of IWS constructing the building and hosting KESAB on their site. Green Industries SA was a major funding partner and Sims Metal Management, STEMSEL, and Adelaide Brighton Cement also provided generous support and partnered to support the development of the Centre.

Despite the inevitable COVID-19 disruptions a total of 38 classes visited the Centre up until the end of June 2021. The KESAB Board of Directors held a meeting in the Centre following a tour of the facility.



WASTE TOURS, REGIONAL VISITS AND CEP GRANTS



Peats Whyalla Composting Facility – Regional Meeting Site Visit

Regional Meetings

In partnership with Green Industries SA, KESAB was pleased to jointly present a series of three regional forums over the year; in the Riverland, Mt Gambier and Whyalla. With a theme of food waste and centred on the launch of GISA's Food Waste Strategy these popular events brought together key local stakeholders from the waste and other industries and local councils, to discuss specific waste issues in their areas. Looking forward KESAB will continue this regional forum format in the future.

'Beyond the Kerb' for Business

In 2020-2021 KESAB developed and delivered local waste and recycling tours tailored specifically for a South Australian business audience. The main aims of these tours were to reduce barriers and improve knowledge for organisations around waste management, show businesses where SA's business waste goes and to inform better decision making. Tours include a networking breakfast, a KESAB-guided bus tour and include visits to IWS, Jeffries, YCA Recycling, Sims Metals & Ecocycle. KESAB thanks the participating businesses as the tours provided an invaluable opportunity to understand the waste industry, promote sustainable business decision making and improve participation in the circular economy. Feedback was overwhelmingly positive and KESAB will continue to develop and provide these tours into the future.

Sustainable Communities

The KESAB Sustainable Communities program started as Tidy Towns in 1978, and four decades later it had grown to be an iconic South Australian environmental education and action program. In 2008, the program moved into a new era, Sustainable Communities and in 2019-2020 it was decided that SA would run its state program each two

years. The program remains community focused and has been broadened to cover environmental sustainability, heritage or wellbeing initiatives and more. The program links with the national Keep Australia Beautiful networks in each state and territory, with winners of the state awards entered into the national program. The Sustainable Communities program is about telling a community's story, getting people together to help their local towns, schools and businesses, and to be proud of their achievements. In 2020-2021 the Sustainable Communities program in SA and nationally were severely impacted by the ongoing COVID-19 pandemic. In 2021-2022 the Sustainable Communities program will return and KESAB looks forward to showcasing local regional sustainability initiatives.

Communities Environment Program

KESAB received funding through the Communities Environment Program (CEP) to deliver waste and recycling education to Aged Care Facilities and Multicultural Groups.

Unfortunately due to COVID, KESAB was unable to enter the aged care facilities and undertake audits of bin systems. Instead KESAB provided residents and staff with information sessions on best waste management practices.

In addition, KESAB liaised with Multicultural Communities Council of SA and delivered three waste and recycling tours of facilities to provide members with first-hand experience on waste and recycling management in South Australia. The goal of the tours was to encourage members to take information back to their communities and implement the learnings when organising cultural events.

The CEP grants provided KESAB with a great opportunity to work closely with the Aged Care and Multicultural sector and to provide a much-needed support in best waste management practices.

The Green Adelaide education team is funded by Green Adelaide whose vision is to create “a cooler, greener, wilder and more climate resilient Adelaide”.



Urban Sustainability Display

The Green Adelaide team has spent the last 12 months transitioning from the long-standing and well-respected NRM Education program of the former Adelaide and Mount Lofty Ranges Natural Resources Management Board.

The success of the former NRM Education program has provided the perfect platform for Green Adelaide education to build on the work already happening within schools and to shift towards helping the greater community “value, connect with and be stewards for nature” as well as building the capacity in the community to achieve Green Adelaide’s priorities through education and action.



Green Adelaide Education (Central Adelaide) Fast Facts

- 86 schools and preschools engaged with Green Adelaide Education.
- 16 teacher training events; 79 educators from 21 schools and preschools attended.
- 54 new resources developed, including case studies; flora and fauna feature articles for the weekly newsletter; filming of a ‘Frogspotting’ television segment; a series of videos of YEC members discussing the environment, their actions and what they see as a school’s role in helping the environment; and the first of our series of Ecosystems Illustrations – a Woodland scene.
- 12 community events: including ‘Nature by Night’ and ‘Frogspotting’ family events run by staff for the Nature Festival; and interactive displays at Science Alive, the Forest Festival, the Mt Barker Science Fair and the OBBY West Torrens Activities launch. These activities had a reach of over 4,121 members of the community.
- 12 Youth Environment Council (YEC) of South Australia events coordinated and facilitated. YEC events for 2020 were run online due to COVID-19 restrictions (YEC Mentor Day, 8 x Members monthly catchups). 2021 events included Mentor Training, YEC Welcome Forum, and YEC Camp.

GREEN ADELAIDE

Key Programs

GREEN SCHOOLS

This year's focus has involved supporting education sites (birth to university) to create green spaces and improve biodiversity outcomes. This included increasing their: knowledge and skills; appreciation for nature; and their ability to take action to enhance natural systems. The team enabled educators and students to explore real issues in authentic contexts, which included taking action in their school and community to create environmentally-friendly local communities.

The team's delivery approach is evidence-based and aims to create partnerships and build the capacity of schools and preschools to connect with their local community to foster awareness and action on local issues, leading to increased stewardship amongst youth, children, parents and community members.

COVID-19 restrictions had a significant impact on the education team's engagement with schools and pre-schools. At the height of the pandemic in SA, all non-essential persons were not permitted on school grounds and there was also a period of time where schools closed and learning from home commenced. As a result, the number of site visits conducted by the team was down. However, the team was quick to think outside the square and work out ways to continue supporting our education sites. We moved many of our traditionally face-to-face meetings to online environments and continued to provide support and resources over the phone and via email.

The same restrictions had flow-on effects to other areas of our program such as the Youth Environment Council of South Australia and our Climate Ready Schools program. Both of these are traditionally face-to-face with minimal online delivery, however to combat this, the team was able to shift quickly to online delivery and develop online packages that could be delivered remotely.

HIGHLIGHTS OF THE 2020-2021 FINANCIAL YEAR

A total of 86 education sites were supported through 179 site visits and/or support activities. This included technical advice, training, resource provision and mentoring to support school communities working towards Green Adelaide priorities. Support included planning for habitat restoration; learning about local biodiversity; bush kindy; outdoor learning ideas; creation of butterfly gardens; citizen science initiatives; youth voice; Grassroots Grants support; and building Water and Biodiversity Sensitive Urban Design into education sites' projects.

We demonstrated our ongoing commitment to youth engagement and youth voice by ensuring young people's perspectives on the Green Adelaide 5-year plan and vision were collected as part of the consultation process. The education team interviewed 40 students aged 4-18 years

from six pre-schools and schools, and a total of six hours of footage was obtained of their thoughts and opinions. A short video was collated to screen at the Cooler, Greener, Wilder community consultation forum on Wednesday 7 April. All footage was transcribed and the young people's thoughts/voices, in their own words, was forwarded as a youth perspective on the plan to the consultation committee.

We also supported the Green Adelaide grants team with the rollout of, and implementation of the 2020 and 2021 Grassroots Grants program. Education team members ran two Community Grant Writing Workshops. The aim was to up-skill potential applicants from a broad cross-section of the community. Education team members also provided advice to applicants, ran the technical assessment process and have supported successful education site applicants with their projects. A total of 13 education sites were successful in the 2020-2021 grants round.

The education team has been working to rebrand existing communications for clients and stakeholders to ensure Green Adelaide's seven priorities are promoted effectively. Our weekly email digest has continued to be sent out each week during school terms to over 2,590 subscribers.

Planning is underway with the Resilient Communities Team and the Green Adelaide Board to help guide the work of nature education in Green Adelaide into the future.

CLIMATE READY SCHOOLS

At the beginning of 2021, Green Adelaide Education team (central region) began its second year of the Climate Ready Schools Program, in partnership with Resilient East and Adapt West. There are 13 schools taking part. This exciting initiative challenges schools to carry out investigations into climate change adaptation and mitigation possibilities in their school or local neighbourhood.

With the support of the Green Adelaide education officers, students use a problem-based learning approach, through student-led co-design to develop solutions to the local climate change issues they choose to investigate.

The climate change learning is integrated into the school curriculum, through the sustainability cross-curriculum priority, to provide learning opportunities for students, professional development for teachers, and a clear course of action schools can take to address climate change.



Youth Environment Council Karna Art Activity



Students from West Beach Primary School present their project at the Climate Ready Schools Forum

Towards the end of the year a Climate Ready Schools Expo will be held for students to share with their peers, teachers, school leadership, parents and community members how they can adapt to climate change through the projects they have developed.

YOUNG VOICES HEARD ON GREEN ADELAIDE'S REGIONAL LANDSCAPE PLAN

As part of a wider public consultation on Green Adelaide's Regional Landscape Plan, members of our Green Adelaide Education team have been working hard to gather feedback from young people aged 4 to 18 on what they think of the Plan. The Education team is really proud to have been part of such an authentic process engaging young people from the very start of the consultation, and ensuring their ideas are fed in along with those of the wider public.

We visited six schools across the metropolitan Adelaide and interviewed over 40 students from preschool to Year 12. They were invited to tell us their thoughts on Green Adelaide's proposed vision: "A cooler, greener, wilder and climate resilient Adelaide" as well as share their ideas about actions we could all take to achieve this. We also asked them to think about who could assist with turning vision into reality, and how to convince others, who might not typically be very environmentally-focussed, to come on board.

Their responses were both inspiring and thought-provoking, and showed a strong understanding of, and passion for, our natural environment. Some original suggestions included mini national parks around the city; alternative sources of energy to power cars and buildings; using more sustainable materials to create bitumen and reflect heat off our roads; and holding 'nature days' and other public events to increase environmental stewardship across Adelaide.

We captured the students' responses on film and fed their ideas back to the planning team responsible for finalising Green Adelaide's Regional Landscape Plan. We will be returning to participating schools to report back to students on how their feedback has been used.



Year 1 students from Parafield Gardens Primary School share their thoughts about the environment with Green Adelaide staff

We are also working to produce a series of short videos showing what they had to say, which will be shared on the Green Adelaide social media platforms.

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.

GREEN ADELAIDE

Over the last 12 months, Green Adelaide Education (central region) staff worked with a number of partner organisations on a range of activities and events, some of which are outlined below.

FROGWATCH SA

Green Adelaide manages the FrogWatch SA program.

During the 2020-2021 financial year, a total of 532 surveys were submitted by 187 different participants and analysed by Green Adelaide Education (Central region) staff. Recordings were submitted from the South East; Eyre Peninsula; Murray Darling Basin; North East; Flinders Ranges; Yorke Peninsula; Adelaide and Mount Lofty Ranges; and Kangaroo Island.

Seventeen different frog species or call races were detected, including the vulnerable Southern Bell Frog, and the rare Bibron's Toadlet and Smooth Frog. As in the previous two years, recordings were again made of the Spotted-thighed Frog on Eyre Peninsula. This a species from Western Australia that has become established in some wetland areas in Streaky Bay.

As is normal, the majority of surveys were made in and around the metropolitan area, with over half of all recordings including the Common Froglet. As its name suggests, this species has a wide distribution throughout much of south eastern Australia and tolerates urbanisation quite well. Other commonly recorded species were the Spotted Marsh Frog, Eastern Banjo Frog and Brown Tree Frog who are also happy to inhabit artificial environments like ponds, dams and constructed wetlands. Peron's Tree Frog continues to be included in numerous recordings in the Mt Lofty Ranges and parts of the metropolitan area. This species has a natural distribution which includes a few swamps in the south east and along the length of the Murray Valley in South Australia and is also common in the eastern states. It appears to have become established outside of this natural distribution as a result of the pet trade.

As well as analysing surveys, Green Adelaide (Central region) staff supported FrogWatch SA through community presentations, webinars, field days and media events.



Over half of the recordings received by FrogWatch SA were of calls of the Common Froglet

Staff also filmed the 'frog friendly gardens' component of Green Adelaide's 'Creating biodiversity gardens' video and answered questions as part of two live webinars for the video; were filmed by ABC's Behind the News program for a segment about citizen science frogspotting and then appeared in their 'Ask a Reporter' live stream answering questions from teachers and students across Australia.

A webinar about Frogs of Adelaide and the Mt Lofty Ranges attracted over 100 people.

NATURE FESTIVAL

Green Adelaide was a major sponsor of the Nature Festival and the Green Adelaide Education (central region) team jumped in, running two events.

Nature by Night at the South Parklands was open to all ages and involved guided rambles through our urban wild places by torchlight, encouraging participants to use their senses and observation skills to discover our wonderful urban biodiversity. Amongst the creatures spotted were geckos, frogs, possums, bats, multiple spiders and beetles; as well as evidence of other animals including various native birds. Our team encouraged discussion about the plants and animal tracks and traces seen including diggings, scats, nesting hollows, fur and feathers on the ground.

A "Frogspotting" Frog Talk and Walk at Arbury Park Outdoor School was the second event held. Participants first sat down to hear all about frogs from Steve Walker, including how to identify species from their physical characteristics, weird and wonderful facts and how to recognise them from their mating calls. The group was lead on a tour as they searched for frogs, eggs and tadpoles and listened for their calls. The children and adults were totally engaged by these amphibious creatures as Steve found them in amongst the vegetation, under fallen logs and bark.

A total of 63 people attended these events. They discovered the magic of our biodiversity, and were encouraged to use their senses, including smell and touch, to discover and experience our native plants and animals. Participants were able to gain an appreciation of the rich biodiversity occurring in urban areas around the wider Adelaide environs and left with new ideas for engaging with biodiversity in their own backyards, urban parks and wetlands. The major aims of the events: to connect people with nature and encourage advocacy and pride in their urban environment, were certainly achieved and the team hopes to run similar events to reach more of the community in the future and further progress the priorities of Green Adelaide.



Nature by Night: a guided 'ramble' through our urban wild places by torchlight

SCIENCE ALIVE

Is your house the hottest one in your street or is it a cool place to be?

Thousands of attendees at Science Alive (November 6-8) had the opportunity to find out more about the issue of urban heat in the metropolitan area and check out their favourite landmarks around Adelaide using local heat mapping technology at the Green Adelaide display.

Interactive activities gave them the chance to predict which surfaces and building materials absorb and store the most heat, and then use laser thermometers to assess their accuracy.

The display also had information about what Green Adelaide and our partners are doing to make Adelaide a cooler, greener, wilder and more climate-resilient city, and how you can do your part.

Our new interactive ecosystem illustration about animals in woodlands was popular with younger children and families, but the big hit was the online urban heat mapping tool, which generated lots of conversations about building materials, gardens and urban planning.



We had the pleasure of talking to thousands of people about urban heat at Science Alive

HOPE VALLEY RESERVOIR OPENING

The Green Adelaide Education team supported a stall for the community where staff talked to several hundred attendees about what they can do to create cooler, greener, wilder spaces in the urban environment. Including planting options, habitat and water sources for wildlife, and better choices for surface materials to reduce heat. Plant and animal identification charts were very popular, as were the Backyards for Wildlife fact sheets.



The OBBY West Torrens map showcases five inspiring locations along the River Torrens (Photo: Heath Riggs, Mono Design)

OUR BIG BACKYARD

The Our Big Backyard West Torrens (OBBY) project team has been working together for the last two years to bring to life a series of resources that highlight local outdoor spaces and ideas for engaging with nature. Working closely with children and families through schools, preschools and childcare, the OBBY team set out to discover where and how children like to play outdoors, in order to share those ideas with the wider community. A map was created based on this feedback, which showcases five inspiring locations along the River Torrens, along with a series of creative activity ideas that are unique to each spot.

The resources were launched in the April school holidays, with students who participated in the project coming along to celebrate and explore one of the locations with their families.

The full set of resources can be downloaded from the City of West Torrens website and hard copy resources are available from the Hamra Centre Library, as well as Cowandilla and Lockleys Children's Centres.

FOREST FESTIVAL

During the Autumn school holidays, the Green Adelaide Education team participated in the 2021 Nature Play SA Forest Festival. Held over two days in the depths of Kuitpo Forest, this event was designed to encourage wild and free play in the forest.

The cooler autumn temperatures and a bit of rain on the first day brought more than 1500 children and adults dressed in beanies and gum boots out to play and explore. Our team was at the ready to provide ideas for ways to connect with nature, both at the event and every day in your own backyard. We had our selection of identification charts on the fauna and flora that families can find in the forest, their school or backyard. We also had our interactive woodland ecosystem illustration where children could place the plants and animals where they thought they belonged in the environment.

At our senses display children were encouraged to investigate what nature smelt like in the form of smelling jars of unseen natural elements including koala poo; investigate what nature felt like with an echidna skin, possum pelt and other items to touch; and what nature sounded like through recordings of animal calls.

The team had lots of engaging conversations with adults and young people about the nature they find in their gardens.



Set up and ready for the crowds!

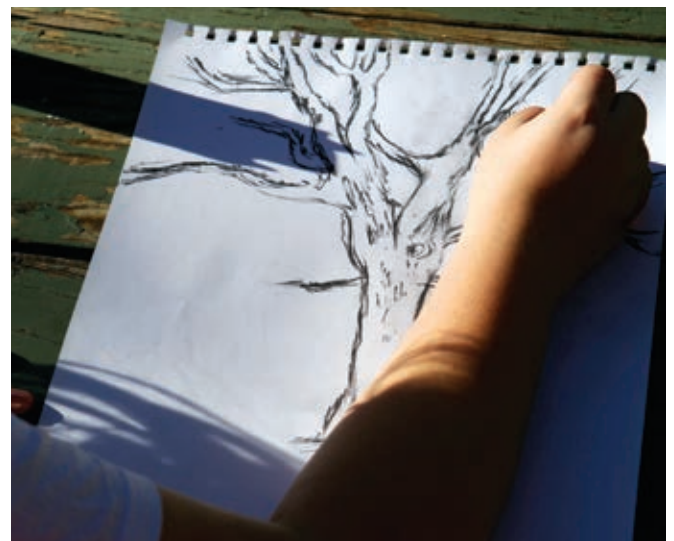
KEY LESSONS FOR MOVING FORWARD

As we finish our first year under the direction of the newly formed Green Adelaide, there are a number of key lessons for our programs and modes of delivery.

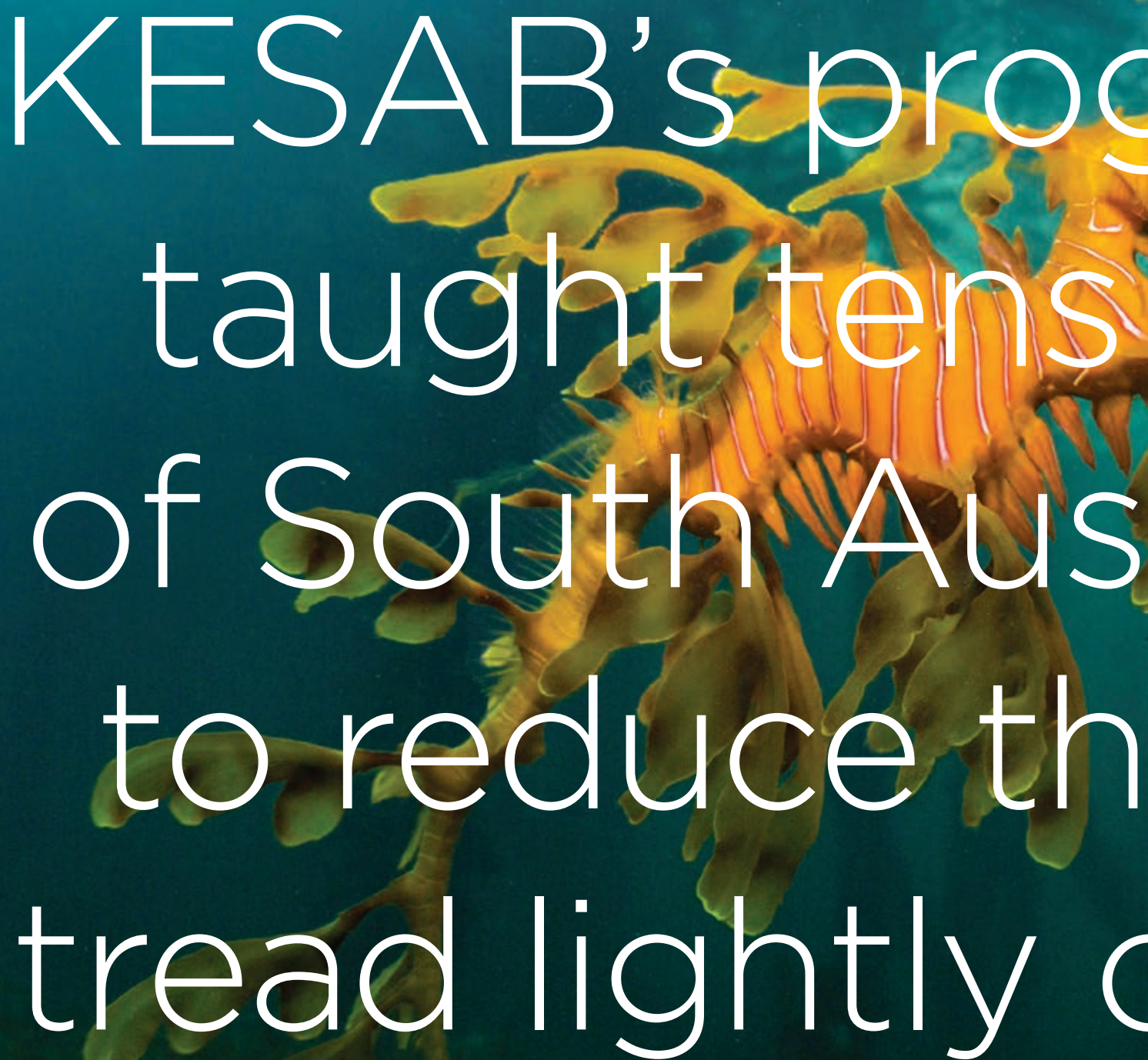
Although nothing can replace face-to-face in terms of relationship building, COVID-19 did force us to look at and utilise new technologies in ways that we haven't previously. The team was able to gain new skills and confidence using online tools such as facilitating professional development through Zoom and MS Teams, and collaborative platforms such as Padlet. The team will be able to incorporate these into future delivery and have continued to do so, even with the easing of some restrictions.

Stronger connection to the wider Green Adelaide Resilient Communities Team, as well as other GA teams has provided more opportunities to network, connect and collaborate through online meetings and face-to-face events. Some examples include education team members providing direct support to the biodiversity, planning and National Park City teams. We look forward to continuing to work together in future.

We need to be agile, adaptable and scale-able with our program model and approaches, with a range of options for opportunities and engagement. The current pandemic has made this more apparent but it has also highlighted its importance in moving forward and working with wicked problems. Meeting people where they're at is vital and our support and flexibility in this space will help them go further.



Connecting with Nature: YEC member nature journaling exercise

An underwater photograph showing a school of yellow-green seaweed with a prominent orange and white striped fish swimming through it. The background is a clear, deep blue-green water.

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An underwater photograph of a coral reef. The water is a deep, clear blue-green. In the foreground, there are large, yellowish-brown seaweed or coral structures. The background shows more of the reef structure, slightly out of focus.

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The Youth Environment Council (YEC) is a leadership program funded by Green Adelaide and the Department for Education and it is open to students in years 7 to 11 from across the state who are passionate about the environment.



Finally the YEC meet in person

Due to the pandemic, the first two events for the year were cancelled. Instead, students were supported through an online information sharing platform, Padlet, and via monthly online Zoom sharing sessions.

However, thirty-seven students were able to gather at Adelaide Botanic Gardens to celebrate their involvement in the 2020 YEC at the end of the year. It was wonderful for the Council to be able to meet in person for the first time.

At this Celebration Forum, students created a painting using Aboriginal symbols with Corey Turner, Kaurna man, and listened to a panel of past YEC members talk about their experiences since participating in YEC. Students also had the opportunity to share their research and action projects. Their posters and displays covered topics including urban and non-urban biodiversity projects, Glenthorne National Park, sustainable shopping, native bee hotels and animal habitat surveys.

The Minister for Environment and Water, the Honourable David Speirs viewed the displays, gave a speech encouraging students to be active in, and champions of, their local environment. He congratulated the students on their involvement in the YEC and presented them with Certificates of Achievement.

In April 2021, the latest cohort of YEC representatives were welcomed through the gates of Cleland Wildlife Park, greeted by the sunshine and Green Adelaide Education staff, to kick off the first YEC event for the year. This event allowed the 53 students to come together, with some travelling from areas as far afield as Kangaroo Island, Eyre Peninsula, Yorke Peninsula, the Murraylands and the South East of South Australia.

The day was focused on the students getting to know each other, sharing their ideas and passions about the environment, and thinking about the individual environmental projects they will develop in their schools and communities throughout the year. This was facilitated through a range of fun activities including team building, leadership exercises, sharing project ideas, discussing environmental and sustainability topics, and immersing in nature through the wildlife park.

YEC mentors helped guide these activities with enthusiasm, and greatly assisted the Green Adelaide Education team with making their fellow YEC members feel welcome.

The mentors continued to play an important leadership role when they supported members at the three day Leadership Camp held at Arbury Park Outdoor School (APOS) in May. The school provides an ideal location where students can deepen their knowledge of environmental and sustainability issues, and increase skills in leadership, problem solving and team building. APOS and Green Adelaide Education staff collaborated to deliver a program that encouraged students to connect with their surroundings, challenge themselves and think about their goals.

Students were involved in both outdoor and indoor activities with a focus on linking explicit learning with real world practice to further develop and plan their projects. Students identified their support networks, funding opportunities and steps for future action. Other camp highlights included orienteering, a night frog walk, Landcare activities and the quiz/talent show night.

We can't wait to see what the rest of the year brings and the projects developed by these environmental leaders!

LITTERLESS IN THE SOUTH AUSTRALIAN COMMUNITY

Litter Less is a valuable contributor to KESAB's Waste Education program and has been developed and supported through KESAB's ongoing partnership with MARS Wrigley.



Litterless in schools

The Litter Less school program focuses on awareness, understanding and actioning of litter issues at school, in the community and the environment. The program introduces students to concepts of litter, discusses what litter is, and how it spreads. Litter Less students participate in a sample litter audit in the school grounds, analyse the results and identify the types of litter found, litter hotspots and consider bin placement. Students then develop an action plan for their school to reduce litter and this also often focuses on 'nude food' lunches.

Over the 2020-2021 year KESAB broadened its delivery of the Litter Less program and worked with schools in Port Pirie Regional Council, Light Regional Council and Tatiara District Council as well as sites in metropolitan Adelaide.

KESAB engaged with fourteen classes across Years 3-7. In total 414 students benefitted from the Litter Less incursion and were eager to make changes at their site to reduce litter in their local environment.

KESAB also continued its partnership with the Marine Discovery Centre and delivered the Litter Less presentation to seventeen classes totalling 424 students from Years 3 to Year 9.

To improve students awareness and understanding of littering issues at their school and in the community, KESAB staff met with 51 Year 8, 9, and 10 students at Roma Mitchell Secondary College in the lead-up to a litter collection event.

KESAB also conducted the first online Litter Less workshop with students at Keith Area School. Feedback was very positive; "support was amazing and they were very accommodating to present online despite all the COVID-19 pandemic interruptions. The students were highly engaged and learnt a great deal. Thank you for running such a great program. We will definitely be back."

KESAB continued its strong and positive partnership with SA Water in 2020-2021 to deliver water sustainability and water quality messages in remote aboriginal communities throughout South Australia.



From Source to Tap on the APY lands

Working with schools and communities on the Anangu Pitjantjatjara Yankunytjatjara (APY) Lands and remote communities in the Far West Coast, the key focus of 2020-2021 was to deliver quality education, develop skills and enable long-term sustainable behaviour change.

Activities in schools included reading the "Using Water Wisely" interactive in Pitjantjatjara and English, building aquifers to understand water movement in the environment and discussing how SA Water bring clean water to taps in the community.

Students had the opportunity to visit local water holes to test water (pH and turbidity) and look for macroinvertebrates. SA Water staff taught students to fix leaking taps and provided them with a DIY tap fixing kit to use at home and in the community.

Several community events were held with food provided, and hands-on activities including water cycle umbrellas for children and a tap station for adults to learn how to fix taps and ask questions about water in their community.

For the first time KESAB also visited Oak Valley Anangu School on the west coast, nearly six hours west of Yalata. With only four students, everyone was excited to see SA Water and KESAB visit their school and to take part in the experience.

KESAB delivered teacher online information sessions to discuss the Water – Let's be Sustainable microsite and associated teacher resource to best benefit from the curriculum linked resource. The website www.kesab.asn.au/apyl is well utilised.

KESAB continues to be leaders in water sustainability education on the APY Lands, having built a crucial trusted relationship with the schools, communities and the Department for Education.

Clean Site® is an industry education program originally developed and implemented by KESAB *environmental solutions* with state and local government, Master Builders SA, Housing Industry Association, the Construction Industry Training Board and the building and construction industry.

For more than ten years KESAB has delivered its Clean Site® program through partnership with the Construction Industry Training Board, government agencies, industry associations, and the general building and construction industry.

The program's focuses includes stormwater management, recycling and resource recovery, trade practices, erosion and sediment controls and litter management. Clean Site® aligns with EPA legislation regulations and codes of practice for stormwater pollution prevention as well as local government provisions.

Delivery of the program encompasses environmental toolbox inductions with a focus on connecting with a state-wide network of high school students through the Construction Industry Training Board's Doorways2Construction program. Training is provided in a school environment and supports onsite practical experience.

Over the 2020-2021 financial year KESAB delivered Clean Site® training to students from the metropolitan, west coast, south east and Riverland regions situated within Trade Training Centres and high schools with almost 800 participants in a COVID-19 interrupted school year.

A particular highlight of the financial year was KESAB's partnership with Woolcock Construction on the award winning SUHO 10-Star Home at Woodforde, South Australia. With KESAB's assistance, the project's waste manager was able to provide an effective recycling service. Monthly reports were provided indicating a recycling average of 98% during the project – an outstanding result.

What was not recycled was used in ResourceCo's waste to energy facility, which powers a local cement facility saving thousands of dollars and CO₂ emissions each year due to reduced natural gas use. The 10-Star SUHO site was outstanding and tidier when compared to adjacent building projects contributing to a cleaner local environment. The project is a great legacy and leads the way in sustainable construction in South Australia and KESAB was proud to be involved.



Cleansite training at Thebarton Senior College



SUHO 10-Star house

KESAB was also thrilled to be mentioned in the Master Builders SA magazine.

KESAB's Clean Site® training program continues to provide effective, direct and practical methods for students entering the construction industry to comply with environmental legislation to reduce impacts on the environment by minimising waste onsite, recovering resources, being exposed to the principles of the Circular Economy together with protecting stormwater systems for a sustainable future.

ROAD WATCH—ADOPT A ROAD

KESAB's partnership with the Department for Infrastructure and Transport to deliver Road Watch – Adopt A Road entered its 25th year in 2021.

Road Watch's more than 130 groups and more than 1000 volunteers adopt a section of roadside and conduct litter clean-ups at times that suit them. This ease and flexibility was of great benefit in the turbulent COVID-19 environment of the past financial year.

Whilst restrictions made activities challenging, many passionate volunteers continued to complete regular roadside litter cleans throughout South Australia. Over the year, Road Watch groups reported more than 500 hours of volunteer work with many more hours unreported, all positively contributing to local communities and informing resource management initiatives.

The State Government's single-use plastic ban phase one commenced 1 March 2021 and additional reporting questions were added to clean-up data surveys to track data for banned items including plastic straws, stirrers and cutlery. To date the reported data has shown that 78 individual pieces of banned single-use plastics have been collected and this will continue to be monitored closely. Reports will be updated with new questions for additional materials as phase two of the ban comes into place in March 2022.



KESAB staff celebrate SA's Volunteers

KESAB's aim is that the gathering of this data complements KESAB's formal litter counts and inform initiatives that support the bans.

KESAB continued to work with Volunteering SA/NT to facilitate improved business engagement and commitment. For businesses, involvement in Road Watch fulfills workplace corporate social responsibility commitments and provides valuable opportunities for relationship building, and improved health and wellbeing. KESAB was pleased to welcome the Police Credit Union to the Road Watch-Adopt A Road program in early 2021.

This year KESAB engaged in the #ColourYourCommunityRed campaign to celebrate its wonderful volunteers. This social media campaign, advertised in the program newsletter and via social media, encouraged the community to visibly show support to volunteers by colouring spaces red. KESAB staff sent out an email of thanks with the below image and a personalised email from our CEO to acknowledge the dedication and impacts that volunteering delivers.

KESAB welcomed a new Road Watch program manager in 2020-2021. A review of the program was conducted which showed that over 85% of responding groups were keen to continue involvement and that some of them had been part of Road Watch for more than 20 years, representing significant and valuable contributions to Keeping SA Beautiful.

The review also included historical analysis of recorded data which showed that most litter items collected could be recycled, either via kerbside or specialty collections. Food and beverage packaging litter appears to have increased since 2018-2019, potentially as a reflection of convenience food lifestyles and/or COVID-19 preferences for packaged food. It will be interesting to track this as the progressive single-use plastic bans come into place.



The Buddhist Compassion Relief Tzu Chi Foundation Australia regularly clean areas in the Adelaide CBD



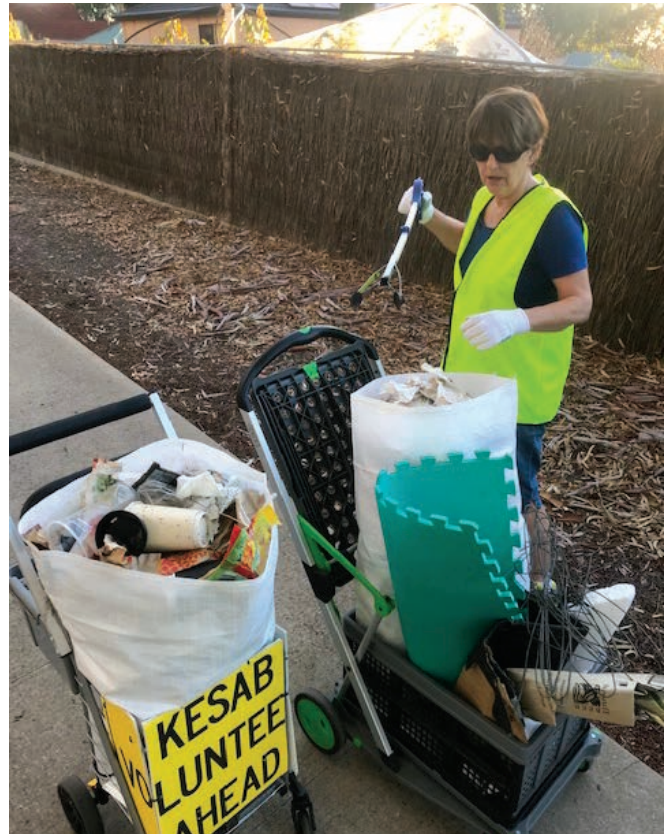
'Rubbish Riders' continue to keep local pathways in Salisbury clean and clear



The Ahmadiyya Muslim Association SA group is very active and had a great turn out for their 'Clean up Australia Day' activity this year



Our Murray plains volunteer continues to contribute to the local community with friend in tow



Our 'Clean Up Couple' have a great collection system for their adopted roadside along Golden Grove Road

ACKNOWLEDGEMENTS

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Veolia Environmental Services
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A misty forest scene with tall, slender trees and a dense carpet of green ferns in the foreground. The atmosphere is soft and ethereal due to the fog. The text is overlaid in a clean, white, sans-serif font.

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