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Annual Report 2017-18



PASSION

We inspire and influence by bringing pride, care and commitment to our work.

INNOVATION

We seek creative ways to achieve goals and turn ideas into reality by promoting a culture of learning and improving.

RESPECT

We respect individuals' values and encourage a culture of collaboration, diversity, listening and trust.

EFFECTIVENESS

We are accountable, focus on clearly defined goals and work as a team to turn words into action.

ENGAGEMENT

We create experiences and connections that make a positive difference.



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White-cheeked Gibbons / Image credit: Adrian Mann

Zoos SA purpose and aspiration

Giraffe / Image credit Adrian Mann

Zoos SA is a long-established and successful organisation that is an integral part of South Australia; since Adelaide Zoo opened to the public in 1883, six generations of South Australians have passed through its gates. It is a conservation-based charity dedicated to biodiversity conservation with around 40,000 members.

OUR PURPOSE

Is to connect people with nature and save species from extinction.

OUR ASPIRATION

Is to lead and inspire conservation action to support global biodiversity.

OUR BUSINESS

As set out in Zoos SA's Strategic Plan 2017-2022, the organisation has four primary goals and a series of broad strategies to achieve them. The Business Plan builds on this framework; the relationship between the Strategic Plan and Business Plan is shown below.

STRATEGIC PLAN

- GOAL 1** Connect people with nature: engage, inform and inspire people to act 5.1
- GOAL 2** Save species from extinction: conservation, wildlife health and research 5.2
- GOAL 3** Work in an ethical and sustainable manner, influencing others to follow our example 5.3
- GOAL 4** Grow a sound and advancing organisation, applying an innovative business approach 5.4

BUSINESS PLAN

- Connect People with Nature
- Save Species from Extinction
- Work in an Ethical and Sustainable Manner
- Grow a Sound and Advancing Organisation



President's Report

As President of the Royal Zoological Society of South Australia, I am pleased to present the 2017-18 Annual Report. November will mark the fifth year of my presidency, and it's an honour to be part of an organisation that is having such an impact locally and abroad.

Over the past twelve months, Adelaide and Monarto Zoos have consolidated their reputation as a conservation charity committed to saving species from extinction.

Throughout these pages you will find many examples of how we are making a difference, including endless conservation and breeding success stories. The many adorable new arrivals you will read about aren't just melting hearts; their births mark vital contributions to many important breeding programs we're involved in.

At Monarto Zoo we were thrilled to continue working towards a future for Africa's most endangered big cat for the second year in a row, with four Cheetah cubs joining the coalition. Born to second-time mum Kesho in May, the feisty felines are growing fast and passed their first health check with flying colours.

We also welcomed the 43rd giraffe calf to be born at Monarto Zoo, making Zoos SA the most successful giraffe breeding facility in Australasia. Then in January, another not-so-little giraffe marked the fourth calf to be born in 18 months, and Monarto Zoo's 44th calf. After being rejected by her mother, the little calf affectionately known as 'Eyelean' was hand-raised by our dedicated keepers. Three months later, Eyelean was successfully reintroduced into the herd and has settled in well – a huge accomplishment for our passionate ungulates team.

Monarto Zoo's Spotted Hyena clan was given a boost with the arrival of three cute cubs last year. The first two cubs, twins born in September to mum Thandi, continue to delight visitors with their playful antics. The third little one came along in January to mum Forest, and was named 'Majani' meaning 'mangroves' in Swahili.

And in exciting news for our conservation team, forty endangered Mallee Emu-wrens were released into a protected area in Ngarkat Conservation Park in the far east of the state, after being monitored and collected by a team that included Zoos SA staff members.

Spring well and truly sprung at Adelaide Zoo last year, with many adorable babies joining the wild family including a colourful Mandrill baby and five gorgeous Capybara youngsters in October. Adelaide Zoo also welcomed a whopping ten tiny Meerkat pups. The three litters, born across July, October and December, provided visitors with hours of enjoyment as they were able to watch the members of our Meerkat mob interacting and growing bigger.

Adelaide Zoo's breeding successes continued with additions to almost all of our vital conservation programs. This includes eight critically-endangered Western Swamp Tortoise hatchlings,

nine Greater Bilbies across both Adelaide and Monarto Zoos, and no less than 19 critically-endangered Orange-bellied Parrots, an incredible number when you consider it's believed less than 50 of these beautiful parrots remain in the wild. The little chicks mark the most successful breeding season ever for the species at Adelaide Zoo.

And the work doesn't stop at our zoo gates. In 2017-18, Zoos SA continued to support twelve conservation projects in Australia and we were proud to provide financial support to eleven field projects internationally.

Zoos SA is nothing without its people and I would like to thank everyone for making the work Zoos SA does possible. I would like to extend my thanks to Elaine, the senior management team, and all staff and volunteers for delivering such positive results for the year and positioning our two zoos as world-leaders.

I also thank our board members for their volunteerism and dedication to Zoos SA over the past year.

I look forward to the year ahead with great confidence.

David Sanders
President



In 2017-18, Zoos SA continued to support twelve conservation projects in Australia and we were proud to provide financial support to eleven field projects internationally.



Image credit Adrian Mann

Chief Executive's Report

The 2017-18 year was one for the history books with Adelaide Zoo celebrating its 135th birthday and Monarto Zoo celebrating its 35th birthday. Much has changed over the past 135 years but two things remain consistent: our passion for connecting people with nature and our commitment to saving species from extinction.

Our achievements did not go unnoticed this year with Zoos SA receiving a number of prestigious awards. In fact, we can now lay claim to being among the top zoos, aquariums and wildlife parks across the Australasian region after receiving two of the nine awards at the Australasian Zoo and Aquarium Association (ZAA) Conference in May 2018. Zoos SA was awarded the In-situ Conservation Award for returning Warru (a small Rock-wallaby) back to the APY Lands and was honoured with the Innovation Award after being the first zoo in Australia to use iBeacon technology to develop an app. In November 2017, we were thrilled to share the news Adelaide Zoo was named Major Tourist Attraction of the Year at the 2017 South Australian Tourism Awards. Adelaide Zoo was also named the most popular attraction

as voted by the public, taking out the inaugural RAA People's Choice Tourism Award. With almost 60 incredible tourism operators listed as finalists, it was a great honour to have Adelaide Zoo recognised as one of South Australia's leading tourism attractions.

Our continued success was also reflected in visitor numbers with strong attendances at both zoos this year.

Monarto Zoo led the way in this success with a record breaking 160,802 people exploring the world's largest open range zoo in 2017-18. Since Monarto Zoo opened to the public in 1993, we have seen annual visitor numbers increase by leaps and bounds, from 25,000 when it opened to the current record of 160,802. This strong growth is expected to continue over the coming years with a number of exciting projects on the horizon.

The ever-growing popularity of Adelaide Zoo continued apace, with 408,455 visitors experiencing the wonder of wildlife at our eight-hectare city zoo. That's a combined 569,257 people visiting our sites in 2017-18, the third largest turnout in our 135-year history.

It's incredibly affirming to know so many people embarked on a wildlife journey at our zoos over the past year. More than half a million visitors, including more than 60,000 students, is a powerful catalyst for positive conservation change.

These high visitor numbers are testament to our growing reach, popularity and reputation as a conservation charity throughout South Australia, Australia and the world.

And while we attracted more people through our gates, we also continued to focus on developing our sites to meet the expectations of our visitors.

Lions 360 has been a roaring success, with almost nine thousand people taking the walk of the brave in 2017-18.

In November 2017, we threw open the doors to South Australia's newest adventure tourism attraction: Lions 360. Guaranteed to leave you in even more awe than when you entered, our innovative Lions 360 experience at Monarto Zoo sees visitors walk through a tunnel and emerge within clawing range of one of Australia's largest African Lion prides. Lions 360 has been a roaring success, with almost nine thousand people taking the walk of the brave in 2017-18. This project is just one example of how we are working to foster deeper connections between our visitors and animals.

In other exciting news, detailed conceptual planning has been completed for Adelaide Zoo's next development: a new Children's Zoo! Strap yourselves in kids because not only will this area house all of your favourite farm animals such as rabbits, goats and chickens, it will also offer an aerial walkway to give little and big kids alike a totally unique perspective. Zoos SA has allocated funding for this project and will be embarking on a fundraising drive to enable this exciting project to commence early in 2019.

And we're continuing full steam ahead towards the development of our exciting new Wild Africa precinct, which will offer visitors the chance to get in the middle of roaming animal herds before going to sleep to the sound of roaring lions. Not only will the precinct make Monarto Zoo home to one of the largest safari experiences in the world, it will also provide us with the space needed to house our rhino sanctuary. With experts predicting rhinos may become extinct in less than ten years; building a rhino sanctuary at Monarto Zoo has never been more urgent.

We're also building infrastructure well beyond our zoo boundaries. Following Karta the Sumatran Orangutan's heartbreaking passing in 2017, we set out to remember her in a very special way. We thought about traditional memorials like statues, but also felt we had an opportunity to do something more significant. So, together with Karta's keepers Jodie and Pij, we came up with the ambitious plan of raising \$20,000 to fund the construction of a guard post on Karta's native island of Sumatra. We

aimed to raise the money in one month, but thanks to the incredible support of our zoo community, we raised the total amount within 12 hours, ultimately reaching over \$35,000. Now, we're thrilled to announce construction has finished and the guard post built in Karta's honour is now a reality. This goes to show the global impact our zoo community can have when we work together.

It's impossible to list all our achievements here, but this Annual Report reflects key highlights of the vast amount of work that we're undertaking inside our zoos and around the world.

As we reflect on the past 135 years, we couldn't be prouder of our efforts which prove good zoos are more relevant and vital in today's society than ever before.

Zoos SA is tireless in its mission to connect people with nature and save species from extinction, and I would like to thank our members, volunteers, staff, and our volunteer board – their endless dedication makes that mission possible.

Elaine Bensted
Chief Executive

Wombat Baby / Image credit Adrian Mann



Board Members and Governance

In line with the rules of the society, Zoos SA is governed by a volunteer board with members donating their time and professional expertise. Board members are responsible for the performance of the incorporated association. The board draws on and applies relevant corporate governance principles and practices, has approved a charter and ensures conflicts of interest are considered at every meeting. Day-to-day management of the business is delegated by the board to the chief executive and senior management team, with quarterly performance reports provided to the board from the chief executive.

Orange-bellied Parrot / Image credit: Ashlan Mann

ZOOS SA BOARD MEMBERS



DAVID SANDERS

President

David is a partner in the Adelaide assurance practice, Ernst & Young and is a qualified chartered accountant and registered company auditor. David is a Life Member and his family have been members of the zoo for many years.



JULIEANN RIEDSTRA

Vice President

Julieann is the Chief Operating Officer of the Department for Education. Julieann is a Fellow of CPA Australia and has more than 25 years experience in finance, corporate services and infrastructure roles. Julieann has been a Life member since 2008.



ROD BUCHECKER

Rod is Chair of TEC 30 for The Executive Connection, the world's largest CEO network. He is a recognised executive mentor and business coach, specialising in leadership development and helping companies find the focus they need to succeed.



GRAEME CROOK

As a lifelong supporter of Zoo conservation, Graeme provides practical, professional and academic experience through over twenty years as both a Zoologist (in the field and in captive management) and in Project Management, to the Zoos SA Board for Strategic planning and development as well as operational overview.



TIM JARVIS AM

Tim combines his love of adventure with a passion for the natural world – demonstrated through his work as an environmental scientist, public speaker and explorer of some of the planet's remotest places. His environmental background and public advocacy experience strengthens the board and its governance.



DENNIS MUTTON

Dennis is an independent consultant in the field of natural resources management, primary industries, regional growth initiatives, leadership development and government-business relations. He also holds a range of board directorships in government, business and not for profit organisations at State and National levels.



SUSIE ROBINSON

Susie is the Chief Executive Officer of Higher Education Consulting Group. She has a depth of experience working at executive levels in the UK and South Australian governments and has significant corporate governance experience. Trained in the sciences and business management, she holds a PhD from Cambridge University.



KATE THIELE

Kate is Principal at Klarity and has more than 10 years of board, CEO and executive experience. Her experience in the not-for-profit sector and governance brings valuable skills to the Board.



CAROL TILT

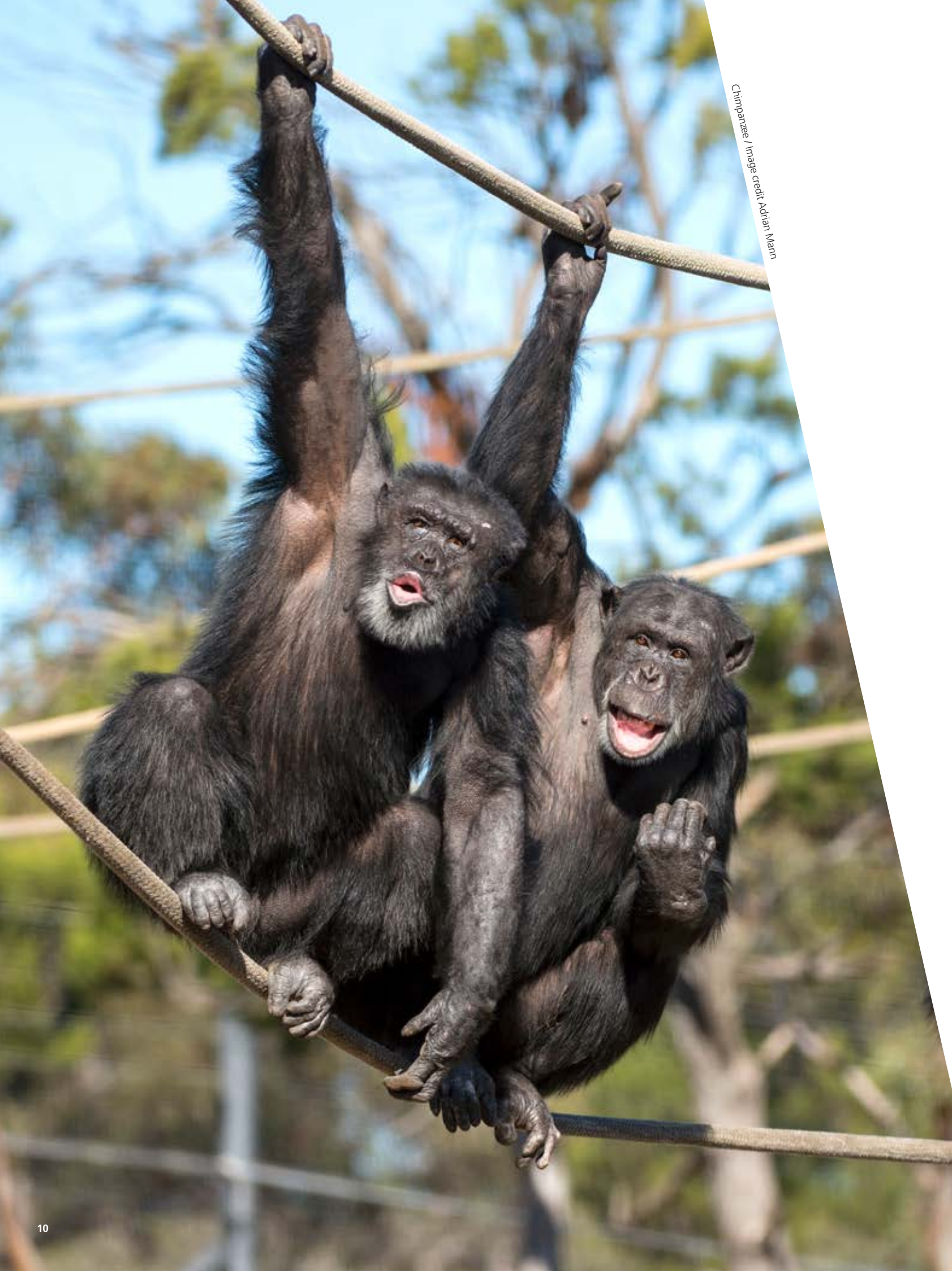
Carol is a Professor of Accounting at the University of South Australia working in the area of corporate environmental responsibility research. She is a Fellow of CPA Australia, a life member and is passionate about conservation.



BOARD SECRETARY / PUBLIC OFFICER

KATE HARTWIG

Kate has had a long career in not-for-profit organisations having been CEO of a range of industry, professional and charitable organisations in Adelaide, Sydney and Melbourne. She was appointed as the Zoos SA Board Secretary and Public Officer in 2013.



Chimpanzees / Image credit: Adrian Mann

BOARD MEETING ATTENDANCE 2017-18

	25/7/17	26/9/17	31/10/17	12/12/17	30/1/18	27/2/18	27/3/18	1/5/18	ATTENDED	APOLOGY
David Sanders	1	1	0	1	1	1	1	0	6	2
Julieann Riedstra	1	1	1	1	1	1	1	1	8	0
Kevin McGuinness	1	1	0	Finished 21 November 2017					2	1
Graeme Crook	1	0	1	0	1	1	0	1	5	3
Carol Tilt	1	1	1	1	1	1	0	0	6	2
Dennis Mutton	1	1	1	1	1	0	1	1	7	1
Susie Robinson	Commenced 21 November 2017			1	1	1	1	1	5	0
Kate Thiele	1	1	1	1	1	1	0	1	7	1
Tim Jarvis	0	0	0	1	1	0	1	1	4	4
Rod Buchecker	1	1	1	1	1	1	0	1	7	1

SUB-COMMITTEE MEMBERSHIP AND ATTENDANCE 2017-18

FINANCE AND AUDIT MEETINGS

	20/7/17	24/8/17	24/9/17	26/10/17	23/11/17	24/1/18	21/2/18	20/3/18	26/4/18	31/5/18	21/6/18	ATTENDED	APOLOGY
Kevin McGuinness	1	1	1	1	1	Finished 1 December 2017					5	0	
David Sanders	1	1	1	1	1	1	0	1	0	1	1	9	2
Julieann Riedstra	1	1	1	0	1	1	1	0	1	1	0	8	3
Dennis Mutton	0	0	1	1	1	1	1	1	1	1	1	9	2
Gavin Bates	Commenced 31 May 2018									0	1	1	1

RISK AND GOVERNANCE MEETINGS

	7/8/17	1/12/17	13/3/18	ATTENDED	APOLOGY
Kate Thiele	1	1	1	3	0
Kevin McGuinness	Finished 1 December 2017			1	0
Kate Hartwig	1	1	1	3	0
David Sanders	1	1	1	3	0
Rod Buchecker	Commenced 1 December 2017		1	1	2

ZOOS SA SENIOR MANAGEMENT

The chief executive and senior management team are responsible for the implementation of corporate strategy and business plan initiatives. The organisation is managed through five divisions with each director supported by a team of staff and a formal delegations manual outlines the level of authority held by positions within the organisation.

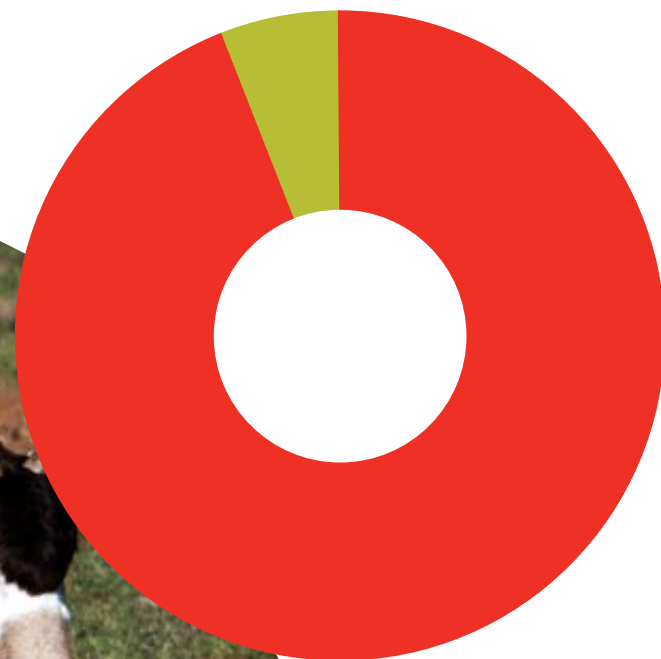
DIRECTOR CORPORATE SERVICES	DIRECTOR LIFE SCIENCES	DIRECTOR BUSINESS OPERATIONS	DIRECTOR PEOPLE AND PERFORMANCE	DIRECTOR PROPERTY AND DEVELOPMENT
Darren Hastings	Peter Clark	Sarah Brown	Leonie Murphy	Les Jones

Year in Review Snapshot

Our goals

FIVE YEAR BUSINESS PLAN

This financial year, Zoos SA tracked and reported progress against a set of activities outlined in its business plan. This plan is guided by our strategic plan and the activities span all areas of the organisation. Over the year, significant headway was made against many of the tasks with the majority completed within this financial year or well progressed. Out of a total of 62 individual tasks detailed in the business plan, 57 were completed and 5 partially completed.



● Completed
● Partially Completed

Addax Calf & Mother / Image credit Adrian Mann



145,900
followers

on social media
in 2018
(Facebook, Instagram,
Twitter, YouTube)

455 animals were born at
Adelaide Zoo

119 animals were born at
Monarto Zoo



\$14 Million
in free media
coverage attracted

OVER 1.1 Million
website visitors

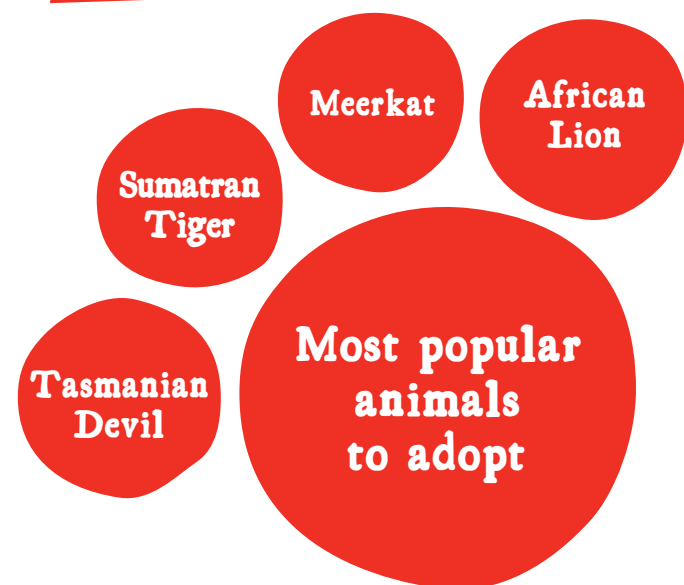
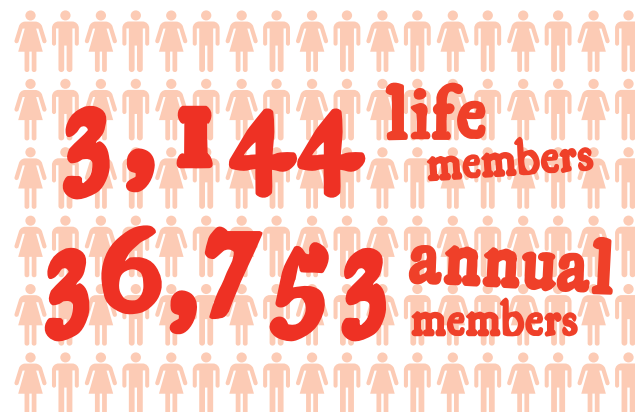
569,257

people visited
Adelaide and Monarto Zoo

450

registered
volunteers
across both sites

- Zoos SA wins ZAA In-situ Conservation Award
- Zoos SA wins ZAA Innovation Award
- Adelaide Zoo wins South Australian Major Tourism Attraction of the Year



Year in Review

Finance Snapshot

2017-18 saw continued growth for Zoos SA. We are pleased to report a surplus of \$1,352,000 which was \$799,000 ahead of our budget surplus of \$553,000.

We have continued to strengthen our financial position, despite challenging revenue and cost targets.

Total income increased on 2016-17 by 11%, with operating expenses remaining well controlled and increasing by 7%.

Admission income continues to grow, with income up on 2016-17 by 9%. This is due primarily to the very strong paid admissions growth at Monarto Zoo of 31%.

This increase in paid attendances was offset by a reduction in free and member attendances, which saw total attendances of approximately 569,000 reduced from 585,000 in 2016-17.

Membership income remains strong, up by 10% on 2016-17 and equating to approximately \$339,000 of additional income.

Education income increased by 12% due primarily to strong growth in our A to Zoo program, our education program for young children aged between 2 and 4 years of age. This program was introduced during 2016-17 as a pilot, and grew significantly during 2017-18, seeing over 8,049 participants.

Tours income increased by 44% due primarily to the popularity of the Lions 360 experience at Monarto Zoo. This experience commenced in November 2017, and by 30th June 2018 8,685 guests had enjoyed the experience.

We received bequest income of \$43,000 and corporate support from in-kind contributions and sponsorships was significant at \$1,250,000. This decreased from 2016-17 due primarily to the cessation of a sponsorship agreement with Westpac on 30th June 2017. The strong level of ongoing corporate support is particularly pleasing given the difficult corporate sponsorship market.

Donations income amounted to \$866,000 with \$468,000 of this being used to support capital investment. The largest component of this was for our Lions 360 experience and continued development of our Wild Africa precinct.

Operating expenditure continues to be well controlled, with several initiatives being implemented to drive efficiencies and to reduce costs. This is in line with our proactive approach to activity and expense management.

Salaries and wage costs increased by 7% due primarily to planned increases in maintenance and safety activities. We also saw an increase in staff costs due to the increased visitation at Monarto Zoo and the introduction of the new Lions 360 experience.

Other cost increases to note include an increase in animal care costs by 20% due to an increase in food costs, an increase in the number of animals in our care, and increased utilities costs due primarily to increased usage and purchase price.

We continue to explore opportunities to reduce costs, consumption and waste.

We invested \$3,040,000 in capital during 2017-18 (\$1,867,000 in 2016-17). Of this \$1,228,000 was for the new Lions 360 Experience at Monarto Zoo, and \$448,000 was for ongoing development of our Wild Africa precinct. We continue to invest in maintenance and improvement capital, balancing the need for maintenance investment with the requirement to invest in new and exciting facilities.

We budget for capital investment each year, and where additional funds become available during the year, we assess how these funds are best applied. Additional unbudgeted funding received during the year allowed us to increase our capital investment above our budget by \$1,061,000.

Our investment portfolio continues to provide good returns, with dividends of \$31,000.

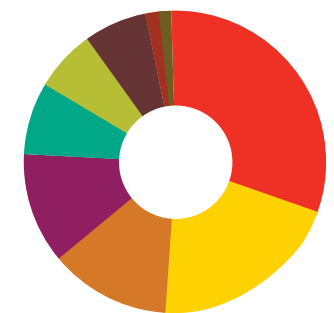
The ANZ debt was reduced by \$750,000, with a balance at 30th June of \$5.05 million. We have budgeted to reduce this by \$800,000 during 2018-19.

In updating our rolling 5-Year Business Plan, we have prepared forward estimates that enable reduction of our ANZ loan from within our annual operating budget. The repayment schedule is regularly discussed with ANZ and the State Government.

KEY ACHIEVEMENTS:

- Surplus of \$1,352,000
- Admissions revenue up by 9%
- Membership revenue up by 10%
- Completion of the Lions 360 experience
- Over \$3m invested in capital
- Controlled cash flow and increased investment portfolio
- Maintenance and development capital expenditure in line with previous years, with additional investment supported by unbudgeted donation funds
- The solar power purchase agreement is showing benefits in terms of reduced electricity consumption

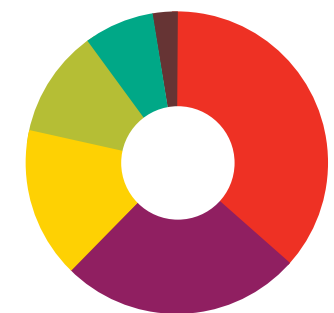
REVENUE



Admissions including Education	32%
Grants - State Government	20%
Membership	13%
Fundraising, Sponsorship & Donations	11%
Retail & Catering	8%
Grants - Other	7%
Tours & Events	7%
Bequests	1%
Other	1%

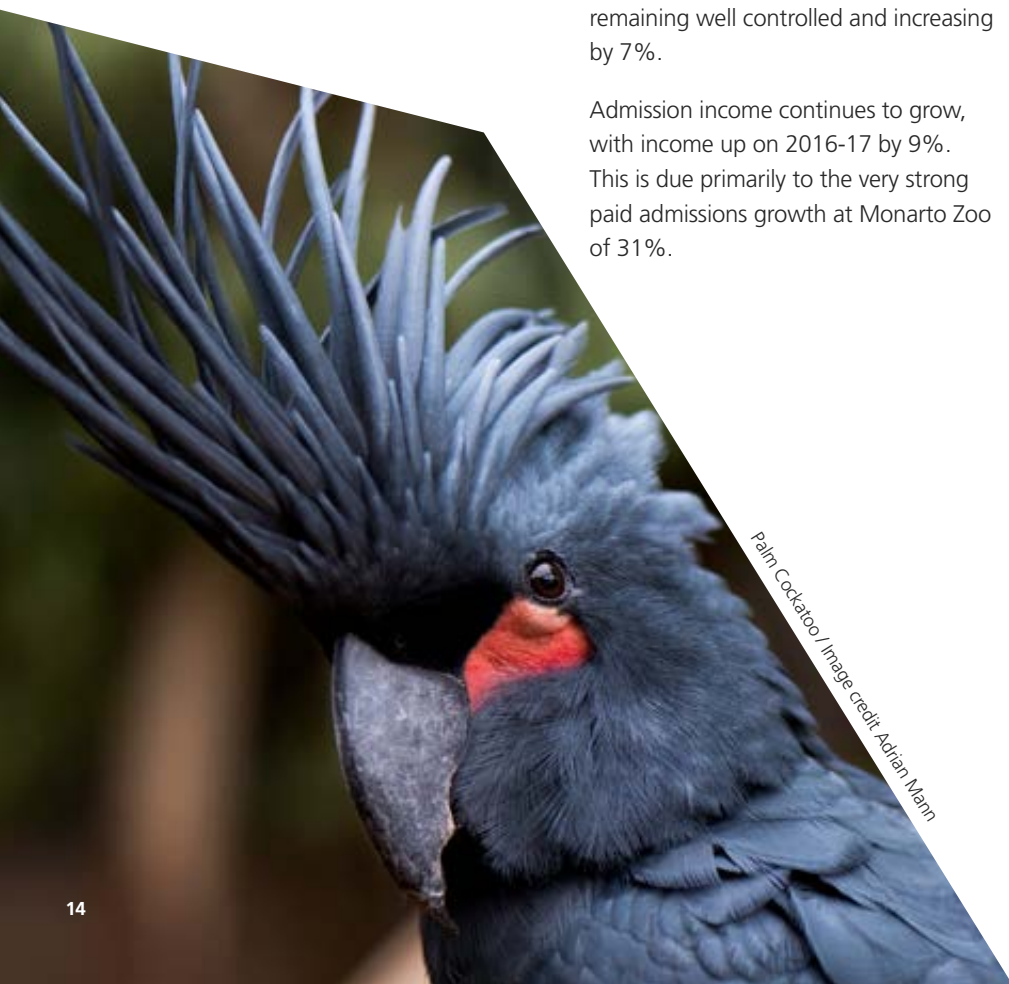
This graph represents the society's revenue for 2017-18 as detailed on page 61. Grants revenue has been further separated into 'state government' and 'other' categories.

EXPENSES



Animal Care	36%
Customer Service	22%
Exhibits, Gardens & Buildings	17%
Education, Conservation & Research	14%
Fundraising & Marketing	8%
Administration	3%

This graph represents the society's expenses and how it spends its revenue. Salary costs have been allocated to the categories listed above so as to provide more detailed information on how funds are spent.



Palm Cockatoo / Image credit: Adrian Mann

Saving Species From Extinction

The last twelve months have been significant with a number of important births, deaths and new additions at both Adelaide and Monarto Zoos.

Spring well and truly sprung at Adelaide Zoo last year, with many adorable babies joining the wild family including a colourful Mandrill cub and five gorgeous Capybara youngsters in October.

Adelaide Zoo's breeding successes continued with additions to almost all of our vital conservation programs. This includes eight critically-endangered Western Swamp Tortoise hatchlings, nine Greater Bilbies across both Adelaide and Monarto Zoos, and no less than 19 critically-endangered Orange-bellied Parrots, an incredible number when you consider it's believed less than 50 of these beautiful parrots remain in the wild. The little chicks mark the most successful breeding season ever for the species at Adelaide Zoo.

At Monarto Zoo we were thrilled to continue working towards a future for Africa's most endangered big cat for the second year in a row, with four Cheetah cubs joining the coalition. Born to second-time mum Kesho in May, the feisty felines are growing fast and passed their first health check with flying colours.

We also welcomed the 43rd giraffe calf to be born at Monarto Zoo, making Zoos SA the most successful giraffe breeding facility in Australasia. Then in January, another not-so-little giraffe cub marked the fourth calf to be born in 18 months, and Monarto Zoo's 44th calf. After being rejected by her mother, the little calf affectionately known as 'Eyelean' was hand-raised by our dedicated keepers. Three months later, Eyelean was successfully reintroduced into the herd and has settled in well – a huge accomplishment for our passionate ungulates team.

Monarto Zoo's Spotted Hyena clan was given a boost with the arrival of three cute cubs last year. The first two cubs, twins born in September to mum Thandi, continue to delight visitors with their playful antics. The third little one came along in January to mum Forest, and was named 'Majani' meaning 'mangroves' in Swahili.

Caring for more than 3,000 animals, we have celebrated the highs of some incredible breeding successes. Given the size of our collection, in 2017-18 we also experienced sadness after mourning the loss of some iconic members of the zoo family.

In July last year, we celebrated the life of a very special hippopotamus. Susie was almost fifty years old when she sadly passed away and was considered the oldest female of her species in the world. The decision was made to humanely put Susie to sleep as she had a number of age-related conditions which were affecting her quality of life. Her old age is a true testament to the care provided by our keeping and veterinary staff.

In May, we said good bye to a very special resident, Akbar the Malayan Sun Bear. As a cub, Akbar was taken illegally from the wild as a cub and kept as a pet in Thailand. He was later rescued and given to Adelaide Zoo in 1994, and was lovingly cared for by our staff for 24 years. At 31 years of age, Akbar was the oldest Sun bear in Australia and will be sorely missed by all.

Cheetah cubs / Image credit Adrian Mann

We also farewelled Australia's last flamingo and iconic long-term resident, Chile the Chilean Flamingo. Chile arrived at Adelaide Zoo in the 1970s and the bird, aged in her late 60s, was a much-loved member of our zoo community. A memorial garden has been established at Adelaide Zoo opposite her old exhibit to remember Chile and Greater.

Charismatic Spotted Hyena Piltengi sadly passed away in December, after he suffered a renal failure and as a result was humanely put to sleep. He is survived by his two adorable twin cubs Jaali and Kanzi, born to mother Thandi in September.

Beyond our zoo gates, after the tragic passing of Karta the Sumatran Orangutan in January last year, we set out to remember her life in a very special way. We're now proud to report the \$35,000 raised generously by our zoo community in her honour has been used to complete the construction of a guard post on her native island of Sumatra. Protecting the rainforest of Bukit Tigapuluh National Park in Sumatra, Indonesia, the building stands on the edge of the park, playing a vital role in the fight against illegal activities such as poaching and logging. Thanks to the incredible support of our zoo family and conservation partners The Orangutan Project, Karta's legacy will live on forever protecting her wild Orangutan cousins in the forests of Sumatra.

A complete listing of animals housed at Adelaide and Monarto Zoos listed under the Convention on International Trade in Endangered Species of Wild Fauna and Flora (CITES) and the International Union for the Conservation of Nature (IUCN) is detailed in Appendix A.

At Monarto Zoo we were thrilled to continue working towards a future for Africa's most endangered big cat for the second year in a row, with four Cheetah cubs joining the coalition.



Giant Panda, Wang Wang / Image credit: Adrian Mann

ADELAIDE ZOO

ARRIVALS AND BIRTHS

July – September 2017

July saw a big boom for our Meerkat mob with five youngsters joining the wild family.

October – December 2017

We also welcomed a very impressive 19 Orange-bellied Parrot chicks in October, making 2017 Adelaide Zoo's most successful breeding season ever for the critically-endangered bird species.

Two tiny Golden Lion Tamarin babies were born in November to parents Arella and Roscoe.

Meerkat parents Minie and Swazi welcomed more teeny pups, this time a litter of three in October and then two more again in December.

NEW TO THE ZOO

July – September 2017

In August we welcomed a pair of Jabiru, or Black-necked Storks. These striking birds can be found in our Australian Rainforest Aviary.

August also brought with it Kibbar the Southern Hairy-nosed Wombat after her transfer from Taronga Zoo in Sydney. Kibbar didn't travel alone though – the cheeky wombat had a surprise joey in her pouch, bringing the zoo's number of wombats to two.

January – March 2018 In March, we welcomed Black-and-white Colobus trio Charlie, Jasiri and Kyoda. The three monkeys settled in well after making the journey from Monarto Zoo, where they were housed for a number of years. They will soon occupy an extensive aerial walkway running across our Central Lawn area.

April – June 2018

Koala duo Sophie and Louise were warmly welcomed to the wild family in March with a very royal visit from none other than His Royal Highness The Prince Edward, Earl of Wessex KG GCVO.

Sumatran Tiger Rhani made her public debut in June after arriving from National Zoo and Aquarium in Canberra a month earlier. She joins resident tiger Assiqua as a powerful ambassador for the critically-endangered big cat species.

DEPARTURES

July – September 2017

In July, three of our Patagonian Mara females made the journey to their new home at Gorge Wildlife Park.

SORELY MISSED

July – September 2017

We farewelled our iconic 41-year-old male Aldabra Tortoise, Tati, who is survived by his sister Aonika.

We also said goodbye to 14-year-old koala River in July, after he was euthanised due to age-related illnesses.

Also in July, we celebrated the life of iconic 49-year-old Hippopotomus Susie, the oldest female of her kind in the world, after she was humanely put to sleep after a number of age-related conditions were affecting her quality of life.

Digger, our 30-year-old Southern Hairy-nosed Wombat sadly passed away in August.

In September, we saw the sad passing of female African Lion Yizi after she experienced a number of health issues.

October – December 2017

Beloved 19-year-old Sumatran Tiger Tuan was euthanised in November following a number of age-related issues were affecting his quality of life.

April – June 2018

April saw the sad passing of Australia's last flamingo, Chile. She will be forever remembered by a memorial across from her old exhibit.

In May, we said good bye to Akbar the Malayan Sun Bear. At 31 years of age, Akbar was the oldest Sun bear in Australia and will be forever remembered in the hearts of our zoo community.

GIANT PANDA UPDATE

During the 2017 Giant Panda breeding season, three artificial insemination procedures were carried out on Fu Ni with semen from breeding partner Wang Wang. Following the artificial insemination procedures in September, Fu Ni showed signs of a potential pregnancy.

However, in February, staff observed a number of hormonal and behavioural changes that strongly suggested she had experienced a pseudo labour.

Fu Ni adopted a toy kong to raise, which she cradled close to her, showing strong maternal instincts. Although Fu Ni did not give birth this year, we have every hope that she will go on to become a mother in the future.

The 2017 breeding season was Wang Wang and Fu Ni's fourth genuine attempt at breeding and we remain determined to help them on their journey to parenthood. The knowledge and experience gained this breeding season puts us in an excellent position to experience success in the future. Adelaide Zoo is committed to Giant Panda conservation, and we look forward to continuing our work with research partners and colleagues in China.

MONARTO ZOO

ARRIVALS AND BIRTHS

July – September 2017

In September, we welcomed two Spotted Hyena cubs to mum Thandi, who quickly delighted staff and visitors alike with their playful antics.

Two pint-sized Meerkat girls also joined the wild family in August, after being born to first-time parents Eanie and Roho. The teeny duo marked the first ever Meerkats to be born at Monarto Zoo.

We also welcomed an Addax calf to the herd in August. Sadly, a recent survey found only three Addax to be remaining in the wild, so this little one marks an incredibly important contribution to the captive insurance population for the critically-endangered species.

October – December 2017

October and November saw the baby boom continue with the birth of two zebra foals. We're proud to have bred 13 calves as part of a vital insurance population for the near threatened species.

In November, two prickly arrivals joined the zoo with the birth of two African-crested Porcupines. The two babies, called porcupettes, were born to mum Rita and dad Oliver, who arrived to Monarto Zoo several months earlier.

January – March 2018

In January, the zoo welcomed its 44th giraffe calf, Eyelean. Eyelean was hand reared after rejection from her mother – the first time a giraffe calf has been hand raised at Monarto. Eyelean successfully rejoined the herd three months later.

April – June 2018

Four Western Swamp Tortoise hatchlings joined the family in May, marking an important contribution to the conservation plan for the critically-endangered reptile.

NEW TO THE ZOO

July – September 2017

Mzuri, a young bull giraffe arrived from Altina Wildlife Park to join our highly successful breeding program.

January – March 2018

In March, our cheeky Chimpanzee troop grew by two, with the addition of new females Hannah and Lani from Taronga Zoo. The two females have settled in well, with Hannah already displaying mothering behaviours towards young chimp Enzi.

April – June 2018

Young male Cheetah Obi joined our coalition in April, after arriving from Taronga Western Plains Zoo.

In June, we welcomed Scarlett the giraffe into our Monarto Zoo herd. Scarlett made the long journey from Australia Zoo in Queensland and was accompanied by keeping staff and Terri and Robert Irwin.

DEPARTURES

October – December 2017

In October, young Southern White Rhino female Kibibi was transferred to Australia Zoo in exchange for six-year-old female Savannah. The careful swapping of animals between facilities ensures the highest level of genetic diversity – a crucial element for healthy animal populations.

November saw Yarli and Idalia, two of our Greater Bilbies, released into the wild as part of a collaborative captive breed and release program. We're proud to have bred over 200 bilbies across both Adelaide and Monarto zoos, and a high percentage of all bilbies that now call South Australia home originated from animals that were bred at Monarto Zoo.

January – March 2018

Three Black-and-white Colobus monkeys made the journey to their new home at Adelaide Zoo.

SORELY MISSED

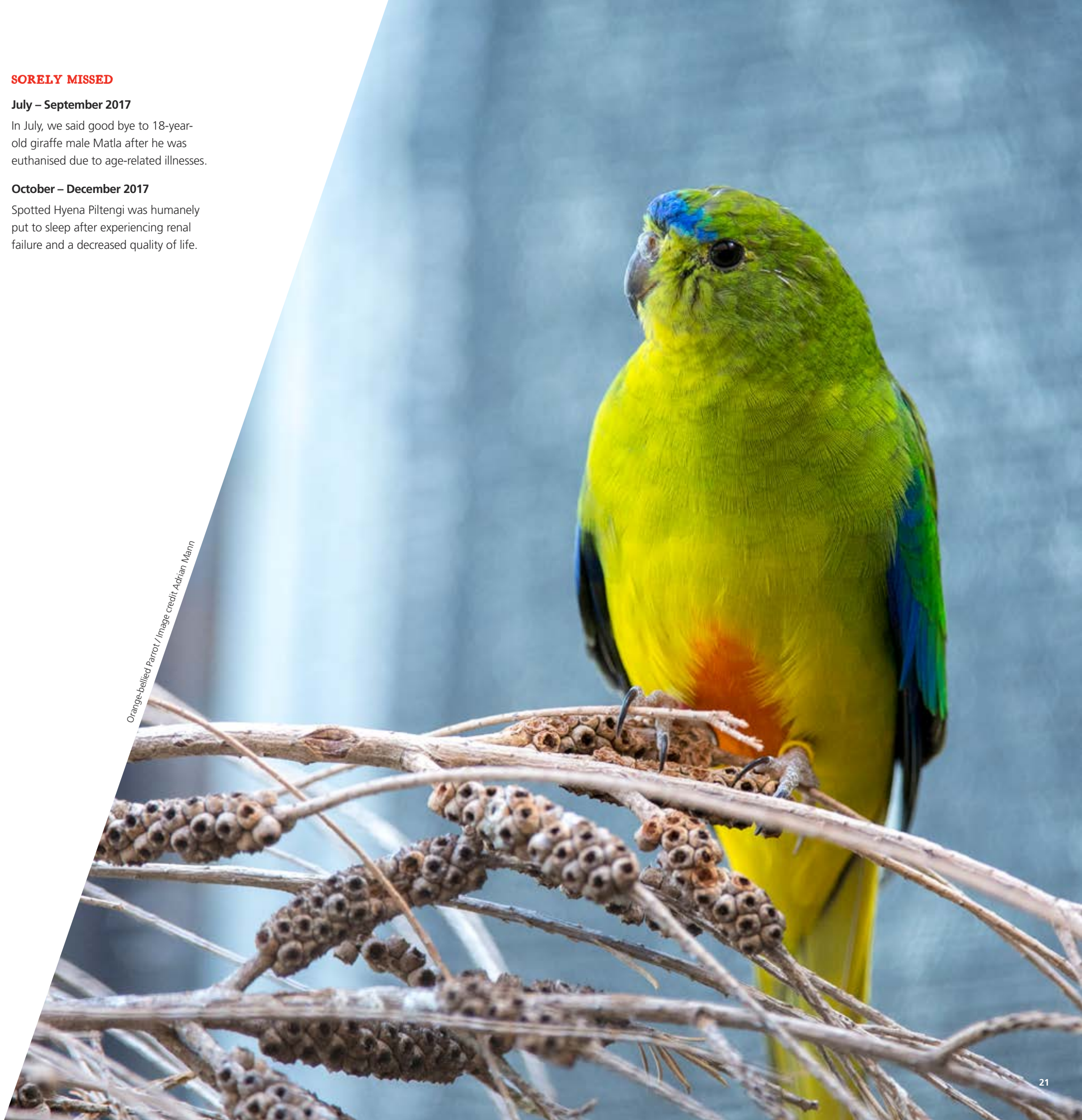
July – September 2017

In July, we said good bye to 18-year-old giraffe male Matla after he was euthanised due to age-related illnesses.

October – December 2017

Spotted Hyena Piltengi was humanely put to sleep after experiencing renal failure and a decreased quality of life.

Orange-bellied Parrot / Image credit: Adrian Mann





Giraffe, Eyelean / Image credit Adrian Mann

Animal Health

Our Animal Health Department (AHD) is responsible for looking after the health of over 3,000 animals that call Adelaide and Monarto Zoos home and is becoming increasingly involved in research. Not to mention, the hundreds of wildlife emergency cases each year that are brought in by wildlife organisations, government agencies and the public.

Our team, supported by a range of laboratory, diagnostic, administrative and student volunteers, has continued to provide a high standard of health care for the Zoos SA collection. We have maintained and developed a range of conservation and research partnerships, outlined under Conservation Projects and Appendix E. The AHD continued to host veterinary and veterinary nursing students on clinical placements, and again conducted lectures and practical sessions as part of the University of Adelaide Doctor of Veterinary Medicine curriculum. We continue to actively contribute to a number of professional associations and serve on a range of external committees. We continue to host the Ronald McDonald family program and have seen over twenty families visits during the year.

The team remained relatively stable through 2017-18. The latter part of the financial year saw us planning for a modest expansion of vet and vet nurse full time equivalency to commence July 1, 2018. This will see 7-day vet nurse coverage at both Adelaide and Monarto Zoos for the first time, and a modest increase in hours for our three part time veterinarians which will proportionally enhance the activities of the AHD and better facilitate face to face communication across our veterinary team.

CLINICAL SERVICES

There were many interesting and challenging clinical cases over the last year.

KEY HIGHLIGHTS FOR ADELAIDE ZOO

Male Ring-tailed Lemur Sambava was diagnosed with diabetes mellitus. Unfortunately, we have not been able to control his diabetes with oral medication and diet changes and we end this financial year looking at the feasibility of starting insulin injections. Cataracts in both eyes, likely associated with diabetes, were successfully removed by ophthalmologist Tony Read.

Our male Aldabra Giant Tortoise was sadly found dead in September 2017. His partner Aonika subsequently became progressively unwell and inappetent. She was hospitalised at Animal Health Centre for an extended period, which included the surgical placement of an oesophageal tube to assist feeding. We were thrilled when she made a full recovery and was able to return to her habitat. It was all hands-on deck for AHD staff and reptile keepers, as well as a number of staff from other departments who gave up their time to help encourage her to hand feed.

Veiled Chamaeleon Iris was treated intensively for many months for a burn across her back. The wound eventually healed well, though as we end this financial year Iris continues to be challenged by other chronic health concerns.

We have been successfully using human fentanyl patches to deliver sustained pain management in several species including wallabies and snakes, with promising results for a range of conditions.

The AHD successfully hand-reared four Australian pelicans for the new Storm Boy production, and provided veterinary consultancy for the trained adult birds used in filming.

In addition to caring for unwell animals, our AHD plays a pivotal role in many of our conservation programs. Several AHC staff were actively involved in assisting to hand-rear some critically endangered Orange-bellied parrots.

Giant panda breeding season was again an intensive focus of the AHD. While our efforts proved unsuccessful in 2017, we were happy with how our team and external partners worked together throughout this period. It was another valuable experience for our whole team, and we continue to refine our approach as we continue to support Wang Wang and Fu Ni on their journey to parenthood.

As always, we were kept busy with a steady stream of animals coming into quarantine, including new tigers Rhani and Kembali, three Common Death Adders, a breeding male Quokka, a wide range of birds including Yellow-naped Amazons, various finches and a lyrebird. We also had an unexpected arrival in November, with a Cane Toad hitching a ride in equipment transported from Port Douglas to Botanic Park. The toad was quickly captured and, after quarantine and disease screening, the decision was made for 'Douglas' to join the Envirodome collection as part of a pest awareness program.

Ten Eastern-long-necked turtles were acquired on loan from another facility and held in tanks at the AHC to investigate the pharmacokinetics and safety of the antibiotic pradofloxacin in a chelonid species in collaboration with the University of Adelaide and other partners.

Female African Lion Yizi developed hormonal derangements that manifest most obviously in early mane growth. Extensive diagnostic testing did not provide a definitive diagnosis and Yizi passed away in recovery.

We also had a series of post-anaesthetic deaths in Capybara that remain unexplained despite extensive investigation and discussions with specialist colleagues. For a species

for which anaesthesia is generally considered relatively straight forward, it was challenging for the AHD and keeping teams to experience these events and be unable to identify the cause.

Although Adelaide Zoo said goodbye to a number of iconic animals in 2017-18, our AHC received fewer animals for post-mortem examination over this period than the previous two financial years. Most of these were elderly animals with chronic degenerative conditions that could no longer support an acceptable quality of life, and many were among the oldest living individuals of their species. Difficult, often emotional, decisions were made to euthanise Chilean flamingo Chile, Sumatran Tiger Tuan, Nile Hippopotamus Susie, Koala River, Malayan Sun Bear Akbar, Maned Wolf Senna and Carpet Python Nigel.

Volunteer sonographer Joan Davy continued to provide invaluable support throughout the year, advising on reproductive ultrasounds to monitor pregnancy/pseudopregnancy in Giant Panda Funi.

KEY HIGHLIGHTS FOR MONARTO ZOO

After considerable medical and animal husbandry consultation, the decision was made to hand-raise a giraffe calf. The young calf was removed from the herd at just a day old and underwent intensive treatment after suffering mis-mothering from her first-time mum. The collaborative effort from vet and keeping staff resulted in a very successful process and outcome, with the young giraffe successfully introduced back into the giraffe herd.

Two bull Southern White Rhinos had elective general anaesthetics performed for semen collection ahead of planned artificial insemination of females interstate. An assisted reproduction team from Leibniz Institute for Zoo and Wildlife Research in Germany attended and assisted the vet team with the anaesthesia and sample collection.

Some of the many births at our zoos this year required substantial veterinary input through pregnancy diagnosis, prepartum reproductive management, birth management and neonatal care. We continue to monitor reproductive hormones in Cheetah and Southern White Rhino to determine progression of pregnancies.

Cheetah Kesho gave birth to a litter of four cubs on the 21 May; Kesho's second litter in two years.

In exciting news, Southern White Rhino Umqali is pregnant and due at the end of the 2018.

An elective general anaesthetic was performed on an old male giraffe whose quality of life had deteriorated and we deemed that euthanasia on welfare grounds was necessary. Given the infrequency of giraffe anaesthesia at Zoos SA, vets took the opportunity to gain valuable experience with such a procedure. Lynley Johnson also travelled to Mogo Zoo in NSW to assist with a planned giraffe anaesthetic there.

A Tasmanian Devil had to have a leg amputated after getting its foot injured by another devil. She made a remarkable recovery and is getting around as well on three legs as she did on four.

We had two Spotted Hyena litters born; the first litter being very rare triplets, with two cubs surviving, and a second of a single cub. Male hyena Piltengi sadly passed away due to a foreign body obstruction in his gut.

Two new adult females joined the Chimpanzee troop from Taronga Zoo. The transition into the group has helped the group become more cohesive than it previously was.

In exciting news, Southern White Rhino Umqali is pregnant and due at the end of the 2018.

WILDLIFE HEALTH

We continue our involvement with the Zoo-Based Wildlife Disease Surveillance Project coordinated by Wildlife Health Australia. Rebecca Probert again travelled to the APY Lands to assist with population monitoring of Warru (*Petrogale lateralis*).

We continue to be involved with the Regent Parrot Recovery Team, though their planned trapping events this financial year were postponed; recovery team activities were directed elsewhere. Plans remain to deploy satellite transmitters and continue population health monitoring in the future.

Tom Hurley, Drs Lynley Johnson and Liberty Olds assisted with the capture of Mallee Emu-wrens for translocation.

Drs Ian Smith and David McLelland worked in collaboration with Adelaide University to develop Disease Risk Assessments for future introductions of multiple native species to several Australian Wildlife Conservancy properties.

Dr Ian Smith worked with the Department of Environment and Water to adapt a method for the insertion of long-term contraceptive implants into koalas for population management. A training program for the insertion of contraceptive implants was developed and delivered to field staff by AHD staff.

FACILITIES AND EQUIPMENT

A new Beckman chemistry analyser purchased by Brian Rich, longstanding laboratory volunteer and driving force behind the AHC research lab, was installed in the AHC and has expanded the range of diagnostic testing available in house.

We acquired three intensive care units to assist with the hand-rearing of pelican chicks, and have subsequently served to expand our capacity to appropriately care for hospitalised birds and other small animals.

A bin lifter was sourced to improve the ease of disposal of animal remains at Monarto Zoo.

A range of general equipment and supplies were obtained from the old Royal Adelaide Hospital.

ETHICS AND WELFARE

As a zoo-based conservation organisation with responsibility for the care of animals in our zoos, and in the field through our conservation projects, we aim to ensure that our activities are underpinned by high standards in animal welfare that reflect the needs and interests of our animals.

The Animal Welfare and Ethics Committee, chaired by Dr Ian Smith and comprising internal and external representatives, continues to meet biannually to provide oversight and transparency to animal welfare and ethical considerations for our organisation. The Zoos SA Animal Welfare Charter was reviewed and all staff signed off on it.

The Aged Animal Assessment framework, a formal, objective tool for evaluating the welfare of aged and debilitated animals over time, introduced in recent years has continued to be rolled out across the collection. It has proven a valuable process in optimising the welfare of our animals with positive welfare outcomes for our collection.

ACKNOWLEDGEMENTS

Special thanks must go to volunteers Brian Rich, Peter McCarthy, Wayne Rohrig, Brian Matthews, and Jenny McInerney, who have continued to provide diagnostic support and nutritional advice to the animal health team, and Lynne Kerr for administrative assistance. Our thanks are also extended to all the external specialists and service providers: the School of Animal and Veterinary Sciences at the University of Adelaide Roseworthy Campus, Repromed, Dr Tony Read and Dr Kellam Bayley from Veterinary Ophthalmic Referrals, David Clark and the team at K9 Gums, Joan Davy OAM, Sound Radiology, South Australian Health and Medical Research Institute, Anthia Rallis, Emma Johnston, Taylor Hawkins, the Adelaide Animal Hospital, the Adelaide Veterinary Specialist and Referral Centre, the Adelaide Animal Emergency and Referral Centre, Healthscope, Murdoch University, the University of Sydney, Total Medical Imaging Solutions, Wildlife Health Australia, the Australian Registry of Wildlife Health, Department of Primary Industries and Regions South Australia (PIRSA), and the SA Department of Environment and Water.

Conservation Projects Beyond Our Gates

Yellow-footed Rock-wallaby / Image credit Adrian Mann



Zoos SA has continued its work in local, national and international conservation programs. Our conservation efforts have had great success and over the last year we have seen the continued expansion of facilities across both our sites and many important translocations of animals into the wild.

Zoos SA's Conservation Directions outlines a framework to help prioritise, support and communicate our conservation efforts. The framework identifies three focus regions:



WALLABIES

Over the last twelve months, work has continued across two of Zoos SA's wallaby programs: the Black-flanked Rock-wallaby (or Warru) and Yellow-footed Rock-wallaby. Support of these programs includes a range of activities such as feral animal control, captive breeding, translocation and the monitoring of released animals. The South Australian Government and Zoos SA's reintroduction project of Mainland Tammar Wallabies to southern Yorke Peninsula has also seen continued success in monitored population numbers.

Building on success from the previous year, the Warru Recovery Team facilitated an augmentation of last year's successful translocation in the Anangu Pitjantjatjara Yankunytjatjara (APY) Lands with unrelated wallabies from the Northern Territory. Our involvement in the recovery of the critically-endangered Mallee Emu-wren continued, with the focus this year being to bring birds back into their once native South Australia. Fieldwork with the nationally threatened Striped Legless Lizard in the southeast of the state also continued this year, with 42 lizards having been recorded since the project first commenced in 2015.

BLACK-FLANKED ROCK-WALLABY (WARRU) KEY HIGHLIGHTS:

One year after 40 radio-collared Warru were released in to the APY Lands, trapping by the Warru Recovery Team confirmed at least 30 of the original wallabies have survived, with seven pouch-independent young also being recorded.

In June 2018, Zoos SA was awarded the ZAA In-situ Conservation Award for returning Warru back to the APY Lands. The award was great recognition for a long-term conservation project that is returning species to the wild.

In late Autumn 2018, five more wild-caught Warru from the Northern Territory were released into the same protected site to further improve the colony's genetic diversity and ability to adapt to changing environmental conditions.

The success of the Warru translocation now brings the South Australia population to three sites in the APY Lands.

Maureen, our hand-raised Warru, continues to be an important ambassador for the project and has played an important role sharing the Warru story over the last 12 months.

YELLOW-FOOTED ROCK WALLABY KEY HIGHLIGHTS:

Regular feral control trips continued to Aroona Sanctuary, near Leigh Creek, to provide ongoing management of feral animals which impact on the wild Yellow-footed Rock-Wallaby population.

Fox baiting was undertaken quarterly.

Involved in ongoing discussion with a range of Aroona Sanctuary stakeholders, regarding the long-term management of the sanctuary.

PYGMY BLUE-TONGUE LIZARD

The Pygmy Blue-tongue Lizard is one of Australia's rarest reptile species. Found only in South Australia, this reptile was considered extinct until its rediscovery in the mid-north of the state in the early 1990s. Zoos SA's role in the recovery effort for this unique lizard, which lives in disused spider burrows, is to investigate its captive husbandry and breeding requirements. This year has seen further expansion of our research facilities with two additional breeding/research facilities constructed.

KEY HIGHLIGHTS:

Construction of two additional research and breeding facilities has been completed at Monarto Zoo.

Research into the behavioural ecology of the species has continued in partnership with Flinders University and the South Australian Museum.

Preparations are underway for a trial translocation of Pygmy Blue-tongues near Burra in the state's mid-north.

RED-TAILED BLACK-COCKATOO

Our work continued with local farmers in the south east of South Australia to protect and restore stringybark and buloke habitat, the main feeding trees of the southeast Red-tailed Black-cockatoo. This planting season saw the hand planting of over 6,000 individual Eucalypt, Melaleuca and Acacia tube stock plants

KEY HIGHLIGHTS:

All of the planned site preparation, weed treatments and back-fill planting were completed.

Continued support for the local landholder network, fostering peer mentoring skills in local communities around Lucindale and Naracoorte.

Nine property management plans developed.

A short video piece on the Cockies Helping Cockies Project was produced by a local broadcasting and media production company based in Mount Gambier to raise awareness.

Additional funding, in partnership with Birdlife Australia, has been sought to continue the program.

MALLEE EMU-WREN

Sadly, Mallee Emu-wren habitat has been lost in South Australia through large fire events, and there is little remaining habitat in Victoria. Zoos SA is engaged as part of a wider Threatened Mallee Bird Conservation Action Plan Implementation Team which is driving conservation and management priorities for a number of Mallee birds.

KEY HIGHLIGHTS:

Several Rufous-crowned Emu-wrens were brought to Monarto Zoo in 2017 as a learning surrogate species for Mallee Emu-wrens. They continue to do well and have provided significant learnings about the capture, feeding, transport and captive husbandry of Emu-wren species.

Zoos SA was involved in an autumn translocation of 40 wild captured Mallee Emu-wrens from their range in Victoria to a conservation park in the south east of South Australia. Preparations are underway for a follow up translocation in Spring 2018.

WESTERN SWAMP TORTOISE

The Western Swamp Tortoise is globally considered one of the rarest freshwater turtles, with fewer than 30 individuals remaining in their natural habitat in the 1980s. Found only in a small number of ephemeral swamps on the Swan Coastal Plain in Western Australia, Zoos SA is one of two institutions working on a captive breeding for release program.

KEY HIGHLIGHTS:

Zoos SA's breeding colony yielded eight hatchling tortoises this year – our best result to date.

Further expansion and upgrade of tortoise breeding facilities has been completed at both Monarto and Adelaide Zoos.

ORANGE-BELLIED PARROT

The Orange-bellied Parrot is considered Australia's rarest bird species, with fewer than 50 birds remaining in the wild. Zoos SA is part of a collaboration of zoos, sanctuaries and aviculturists that have been charged with the responsibility of safeguarding a captive insurance population, and breeding birds for release back into their natural habitat in an effort to prevent their extinction.

KEY HIGHLIGHTS:

Adelaide Zoo successfully trialed an artificial lighting program in its breeding facility that allowed the breeding season to be fast tracked in an effort to minimise the impact of extreme temperatures that occur later in the season.

Adelaide Zoo successfully fledged 19 young birds, our best breeding result to date.

Continued representation on the Recovery Team, veterinary technical reference group and captive management group.

STRIPED LEGLESS LIZARD

The Striped Legless Lizard is a grassland specialist that has suffered major habitat loss and fragmentation that has, along with other emerging threats, resulted in a rapid decline in this species across its distribution. Zoos SA is monitoring the wild population to determine the status of this rare lizard and build our knowledge about this species. Field survey sites have been established on a combination of crown and privately-owned land and were monitored for the presence of Striped Legless Lizards.

KEY HIGHLIGHTS:

20 field survey sites were monitored during Spring in 2017.

42 Striped Legless Lizards have now been captured since the project commenced in 2015, allowing valuable data and measurements to be recorded.

High numbers of native endangered Southern Bell Frogs were also recorded across sites at Bool Lagoon during the survey.

Western Swamp Tortoise / Image credit Adrian Mann



ALOC

Monarto Zoo's Aboriginal Learning on Country (ALoC) program has continued to be a success within the region. Our team has been involved in a range of biodiversity projects both inside and outside of the zoo, including monitoring freshwater turtles in the River Murray and participating in native vegetation restoration and maintenance projects within the Murray Darling Basin precinct.

HIGHLIGHTS

On-going improvement of onsite remnant vegetation through weeding and pest control activities.

Three school-based trainees and one full-time trainee successfully completed their studies in Conservation Land Management.

Four new ALoC trainees commenced at Monarto Zoo in early 2018.

Members of the Monarto Zoo ALoC team participated in a cultural exchange to Goulburn Island in the Northern Territory.

Three graduates now have full time work at Monarto Zoo.

INTERNATIONAL CONSERVATION SUPPORT

In addition to our native programs, Zoos SA provides conservation support on an international level. Projects receiving this support have a focus on protecting habitats and the species in them as well as working with local communities. Over the past 12 months, we have continued our conservation support for ecosystems associated with the following areas: African Tropical Rainforests, African Rangelands, China's Sichuan Province, South East Asia and in Tetepare, Solomon Islands.

KEY HIGHLIGHTS

Providing ranger support in Sera Conservancy, Northern Rangelands, Kenya. The presence of rangers in these areas is reducing poaching, especially of African Elephants, and protecting a large range of species including rhino populations. Several successful reintroductions of wildlife have been carried out with animals such as the Reticulated Giraffe and Black Rhinoceros.

Supporting alternate livelihoods in Sera Conservancy, Kenya, through the sale of their bead products.

Supporting the China Wildlife Conservation Association with Giant Panda conservation activities.

Supporting Tacugama Chimpanzee Sanctuary in Sierra Leone to continue and expand their community outreach programs.

Supporting community conservation through education in the Solomon Islands, where the locals are protecting the largest uninhabited island in the South Pacific, Tetepare, and its surrounding marine environment.

Supporting the Cheetah Conservation Fund to protect Cheetah in their natural environment.

Supporting South African National Parks Honorary Rangers under take anti-poaching efforts in Kruger National Park.

Supporting the Giraffe Conservation Foundation with the relocation of Nubian Giraffe as part of Operation Twiga III in Uganda's Murchison Falls National Park.

Supporting the Komodo Survival Program in Indonesia to purchase essential field equipment for in-situ research with Komodo Dragons.

Construction of Karta's Legacy Guard Post in Bukit Tigapuluh National Park, central Sumatra completed in partnership with the Orangutan Project.

Supporting global improvement of animal welfare practices in zoos and aquaria through a Silver Membership with Wild Welfare.

ALoC program



Mallee Emu Wren



Our Conservation Reach

We provide specialist expertise and financial support for international conservation projects covering Africa, Asia and the Pacific regions to protect habitats, support species recovery and work with local communities. We also support research and actions to adopt best practice in animal welfare and to address illegal wildlife trade.

For more information about our projects and partnerships, please visit our website www.zoossa.com.au/conservation-programs

1. AUSTRALIA

Key native species projects: Orange-bellied Parrot, Mallee Emu-wren, Pygmy Bluetongue Lizard, Striped Legless Lizard, Western Swamp Tortoise, Greater Bilby, Yellow-footed Rock-wallaby, Black-flanked Rock-wallaby (Waru), Tasmanian Devil, Mainland Tammar wallaby and South Eastern Red-tailed Black Cockatoo.

We actively manage our Monarto site to conserve threatened plant species and provide refuge for declining woodland bird species.

We also work with a range of partners under Rewilding for Conservation to breed and reintroduce animals such as bettongs, bilbies and wallabies into priority conservation areas.

They're Calling On You

Head to our website or bring in your old mobile phone at your next visit to Adelaide and Monarto Zoo!

When you recycle your mobile phones, the funds generated through their refurbishment and resale will directly support on-ground work in Sierra Leone. Zoos SA is working with Tacugama Chimpanzee Sanctuary, which has over 80 Chimpanzees in their Rehabilitation Centre, and run community outreach, research, and alternative livelihoods programs. Bring your old mobile phones to Adelaide or Monarto Zoo and help us support Tacugama. For more information visit zoossa.com.au/theyre-calling-on-you

Wild Welfare

Zoos SA is a sponsor for Wild Welfare, a not for profit organisation that operates internationally to improve animal welfare practices in zoo and aquaria and end the suffering of animals held under poor captive conditions.

2. SERA WILDLIFE CONSERVANCY

Kenya - support a 330,000ha wildlife conservancy in Northern Kenya owned by a Samburu community of 16,000 tribes people, by selling bead-work made by the Samburu women and sending back all profits to support ranger wages. Reticulated Giraffe and Black Rhino have both been successfully reintroduced back into the conservancy.

3. CHINA WILDLIFE CONSERVATION ASSOCIATION

China - coordinate panda international agreements and research activities, including in-situ conservation, ex-situ breeding and release.

4. WILDLIFE ASIA

Indonesia, Java, Sumatra, Malaysia - support projects for habitat protection and rescue of threatened species from the illegal wildlife trade, including The Australian Orangutan Project, Free the Bears, Silvery Gibbon Project, Asian Rhino Project and the International Tiger Project.

5. GIRAFFE CONSERVATION FUND

Throughout Africa - support giraffe conservation and management in the African wild through fundraising, awareness and habitation protection programs.

6. KOMODO SURVIVAL PROGRAM

Indonesia - support the management and conservation of the Komodo Dragon in its natural habitat including research and local community projects.

7. TETEPARE

Solomon Islands - supporting community conservation programs and education scholarships towards protection of the largest uninhabited island in the South Pacific.

8. SOUTH AFRICAN NATIONAL PARKS HONORARY RANGERS

Kruger National Park, South Africa - support ranger counter-poaching efforts, particularly for rhinos along with conservation projects, community awareness, fundraising and on-ground support.

9. CHEETAH CONSERVATION FUND

Namibia - saving Cheetah in the wild through research, habitat restoration, human-wildlife conflict resolution and alternative livelihoods, and education activities.

10. TACUGAMA CHIMPANZEE SANCTUARY

Upper Guinea Forest, Sierra Leone - support community development and conservation programs to manage natural resources and to address significant threats to rainforest.

11. PAINTED DOG CONSERVATION INC

Zambia, Zimbabwe & Nambia - support conservation, research, community awareness and rehabilitation projects for large carnivore species such as the African Wild Dog, Cheetah, Lion, Leopard, Hyena and the habitat they rely on.

Connecting People with Nature

Image credit Ryan Thomas

ZOO LEARNING

The Zoo Learning team is proud to design and deliver learning experiences for educators and students of all ages, along with toddlers, tertiary, corporate and community groups. Our learning experiences are designed to inform, inspire and connect people with nature. In 2017-18, 66,273 students, teachers and caregivers attended Adelaide and Monarto Zoos during the school terms, an 8.7% increase from the 60,979 in the previous financial year. Monarto admissions grew from 11,990 to 13,428, an increase of 12%.

The Zoo Learning team consists of a general manager, three permanently employed educators, an office manager, and eleven casual educators who design and deliver overnight, daytime and school holiday programs. Zoo Learning educators create quality learning experiences for educators and their students, by combining Australian Curriculum requirements and effective teaching and learning strategies with the unique resources available at Adelaide and Monarto Zoos.

In 2017-18, we continued to witness a transition in client needs towards facilitated learning experiences delivered by professional zoo educators and a comparative decline in excursions for a self-directed day out at the zoo. Feedback from teachers suggests they want to take part in programs that support strong curriculum outcomes that develop student achievement standards, including information and communications technology (ICT). Last financial year was a period of consolidation with newly developed programs being refined and modified. Programs that grew in popularity were the *A to Zoo* toddler program, *My Cubby Rules* and the holiday care program *Zoocation*.

Adelaide Zoo and Monarto Zoo apps were developed and refreshed to support visitor learning with generous funding provided by Beach Energy. All visitors including students can now access audio, visual and text-based information about animals and plants at our zoos. They can collect their own recordings and take them back to school to continue their learning and share their findings at home and within their communities. Both apps also have a Chinese language option.

Some of these initiatives are offered as regular programs throughout the year, and some as focus programs that are available anywhere from one to three weeks per annum. Focus programs have increased Zoo Learning admissions during wetter and colder times of the year and teacher feedback from these learning experiences continues to be positive.

In 2017, a *Mentor at the Zoo* (MATZ) program began, where seven past *Youth at the Zoo* (YATZ) participants were supported to develop their mentor and leadership skills, working with YATZ. YATZ is made up of a group of young people who learn to develop conservation and leadership skills, manage conservation campaigns and advocate for Zoos SA conservation priorities in the community. The MATZ program is made possible with generous two-year funding from Australian Executor Trustees.

Areas of development for Zoo Learning include the renewal of the Indaba Bush Garden at Monarto Zoo. With funding from Murray Bridge Rotary, the Indaba classrooms are now accessible as practical learning spaces with the building of a deck and ramp.

Another philanthropic foundation provided funds for new and accessible toilets and Zoos SA has fitted out the classrooms with flooring, energy efficient lighting and air conditioning. With the addition of a catering option for groups who stay overnight at Indaba, Zoo Learning is looking forward to increased use of the facility by both school and community groups.



Marketing and Public Relations

Zoos SA continued to promote Adelaide and Monarto Zoos to the world and increase awareness for our brands, products and experiences. In 2017-18, targeted marketing and public relations campaigns continued to support key revenue-raising activities such as admissions, animal experiences, membership and fundraising. In addition to promoting our core products, the team developed community awareness campaigns designed to educate the public about conservation and increase public awareness of our efforts to save species from extinction.

An integrated marketing approach continued with the use of multiple platforms including print, television, radio and digital advertising as well as direct marketing. Campaigns continued to focus on major onsite activities such as school holiday programs and the exciting calendar of events which provided new and unique experiences for our visitors to enjoy.

The public relations team continued to attract significant free media and publicity through both traditional and digital media. In 2017-18, Zoos SA reached over 85.5 million people through the media. Importantly, this coverage was worth more than \$14 million in media value. Public relations activity around new arrivals and births was vital to driving attendance across both sites.

With global media trends showing a continued shift towards digital, the marketing and PR teams prioritised improving our consumer engagement via digital channels. Zoos SA's social media channels saw considerable growth during the past year, with a combined audience of more than 145.9k people. Video remained a strong medium for conveying the multifaceted zoo experience.

Our three websites continued to be incredibly important as a communication platform with over 1.1 million visits during the past twelve months. Our email database grew by over 29% and now has over 55,000 subscribers. All of these channels play a critical role in furthering Zoos SA's objectives to influence behaviours and connect people with nature.

The launch of Lions 360 was a high priority for the marketing and public relations team in 2017-18. A concerted campaign delivered an almost viral reaction in the market; with Lions 360 feed experiences booked out for months in advance as a result. More than 80 media placements promoting Lions 360 were secured in 2017-18, reaching a cumulative audience of 6.1 million people. This coverage was worth more than \$871,200 in media value. High profile national media coverage on Sunrise, the Today Show and Getaway elevated the profile of Monarto Zoo and generated huge brand awareness for Lions 360.

A teaser campaign on social media designed to build anticipation and a carefully layered content strategy delivered strong results. This was supported by an influencer campaign which saw multiple influencer families during the launch period to drive user-generated momentum.

In addition, we worked alongside our media partners Channel 9 to deliver 91 spots for a specifically filmed and produced Lions 360 TV commercial. The SATC assisted with unique marketing opportunities by delivering Lions 360 media and content through a range of partnership campaigns throughout numerous media channels.

We also created and launched a special campaign to mark Adelaide Zoo's 135th birthday and Monarto Zoo's 35th birthday. As part of the celebration, Zoos SA members were automatically entered into a ballot every day in May 2018 to go into the running to win a slew of prizes. The campaign was designed to celebrate our history, as well as thank our amazing members for helping us achieve so much in the past 135 years. Some of our lucky members received things like Zoo Shop gift vouchers, private tours of Adelaide Zoo, and even the chance to hand feed our incredible giraffe girls!

As in previous years, market research conducted through research agency, Square Holes included online surveying and focus groups, and provided valuable insights into our members, visitors and the wider general public.

High profile national media coverage on Sunrise, the Today Show and Getaway elevated the profile of Monarto Zoo and generated huge brand awareness for Lions 360.



Lion / Image credit Adrian Mann



Fundraising

Significant growth in major donations achieved during 2017-18 supported exhibit upgrades and capital development projects at both sites. Key highlights include the extension of the Tamarin Treetop Walkway at Adelaide Zoo and the first stages of construction of the Anthony Taylor Rhino Quarantine and Management Centre at Monarto. Zoos SA is grateful to have received support from over 15,000 households in 2017-18, including 6,433 new supporters.

Zoos SA aligns itself with corporate partners that are respected within their industries, have a strong community focus and are committed to a sustainable future for our natural world. Corporate partners provide both cash and in-kind support for a number of projects and programs across both sites and we are grateful for their ongoing support. We also acknowledge the annual funding support provided by the South Australian State Government. Key highlights for 2017-18 include the launch of *Lions 360 fed to you* by *Electranet*, SA Water's major commitment to filling Wild Africa's water holes and a new partnership with HomeStart Finance supporting Boo at the Zoo.

Southern White Rhinoceros / Image credit: Adrian Mann



FUNDRAISING ACTIVITY	2017/18 \$	2016/17 \$	VARIANCE
Corporate Sponsorship (cash)	\$491,845	\$973,675	-\$481,830
Corporate Sponsorship (in kind)	\$919,823	\$674,730	\$245,093
Grants	\$861,616	\$88,000	\$773,616
Appeals and Donations	\$725,894	\$297,828	\$428,066
Animal Adoption	\$140,434	\$172,055	-\$31,621
Bequests	\$42,585	\$171,901	-\$129,316
Total	\$3,182,197	\$2,378,189	\$804,008

Since 2010, AGL has proudly partnered with Zoos SA by solar powering Wang Wang and Fu Ni's Bamboo Forest enclosure. Our partnership has included providing energy saving solutions to both Adelaide and Monarto, including installing 220kw of solar panels. Our relationship with Zoos SA wouldn't be possible without the support of the administrative staff, keepers and volunteers which, coupled with their passion for conservation and the animals, is a delight to witness.

– AGL Major Partner Bamboo Forest.

Image credit Dan Schultz



MEMBERSHIP

At the end of 2017-18, close to 40,000 people were actively involved members of Zoos SA, with strong renewal rates of 71%. The variance in member numbers and membership income compared to 2016-17 is a direct result of discounted one-year memberships sold the previous year reaching expiry. Our free Cub Membership continues to prove popular with 4,308 little cubs joining our Zoos SA family. Our group membership program continues to thrive with 2,766 members. Zoos SA also welcomed 291 new Life Members this year, increasing our Life Member base to 3,144.

MEMBERSHIP NUMBERS	2017/18	2016/17	VARIANCE
Companion, Honorary Associates and Conservation Friends	38	35	3
Life Members	3,144	2,887	219
Annual Members	33,977	41,565	-7,588
Group Members	2,776	2,185	581
Total Members	39,897	46,672	-6,775

MEMBERSHIP INCOME	2017/18 \$	2016/17 \$	VARIANCE
Annual Membership	\$3,091,881	\$2,988,177	\$103,704
Life Membership	\$526,301	\$528,607	-\$2,306
Total	\$3,618,182	\$3,516,784	\$101,398

Visitor Experience

The 2017-18 financial year saw the introduction of our innovative new Lions 360 encounter at Monarto Zoo. This hair-raising experience opened in November 2017 and has proven a roaring success with both the public and zoo members. We're proud to say over 8,685 guests have taken the walk of the brave since Lions 360's launch and in the months following, we saw many first-time South Australian visitors to the zoo. With high levels of popularity, Lions 360 supported record-breaking attendance figures at Monarto Zoo in 2017-18.

Other behind the scenes experiences across both properties continue to prove popular in connecting our visitors with nature and providing a strong source of revenue which contributes to our various conservation programs.

Another highly successful Rhino Gala Dinner was held in February... the night raised \$227,000 for our rhino conservation work.

Another highly successful Rhino Gala Dinner was held in February to raise money for the Rhino Quarantine and Management Facility at Monarto Zoo. Attended by 170 guests, the night raised \$227,000 for our rhino conservation work. The theme for the evening was 'adventure' and featured special guest speaker Tim Jarvis. As well as being a Zoos SA Board Member, Tim is an environmental explorer and passionate rhino conservationist. Tim was joined by guest speaker Katie Sarah, the only woman to climb all seven continents' tallest mountains. Both guest speakers engaged with the guests, sharing their many adventures and challenges they had experienced along the way. We also launched our Rhino Ambassador program on the night and sold ten ambassador positions at \$10,000 each which has gone towards critical infrastructure.

In late 2017, Adelaide Zoo was thrilled to receive the South Australian Tourism Industry Council tourism award for Major Tourist Attraction, as well as receiving the inaugural People's Choice Award as voted by members of the public. These awards demonstrate our commitment to tourism excellence and creating exciting and memorable experiences for our visitors.

We also held a range of engaging school holiday programs across both Adelaide and Monarto Zoos throughout the year. Program themes included Go Green, Mythical Creatures, Animal Adventures and Zoo Foods, all designed to connect our younger visitors with nature in an exciting way.

In 2017-18, Zoos SA proudly donated approximately \$38,603 in free-of-charge admissions tickets and behind the scenes animal experiences and encounters to a number of South Australian community groups and charitable organisations. We also participated in a number of community events offering discounted entry rates, including a special children's Christmas Party and Playgroup SA Day.

Cheetah / Image Credit Dan Schultz



TOTAL ATTENDANCES FOR THE LAST FIVE YEARS*

	17/18	16/17	15/16	14/15	13/14
	569,257	585,872	566,397	527,500	516,759

MONARTO ZOO	2018	2017	VARIANCE
Admissions	96882	74695	29.7%
Education	13428	11990	12%
Members	32788	32034	2.3%
Other	17704	11316	56.4%
Total	160,802	130,035	

ADELAIDE ZOO	2018	2017	VARIANCE
Admissions	197134	215173	-8.3%
Education	52845	47856	10.4%
Members	116898	146087	-20%
Other	41578	46721	-11%
Total	408,455	455,837	

*These figures capture total ticketed admissions and exclude any additional functions and events e.g. – weddings, corporate events, Boo At The Zoo.

SPECIAL ADMISSIONS PRICE OFFERS

We're proud to have provided a range of special offers during the year to offer great access to both zoos:

Mother's Day – Mums go free

Father's Day – Dads go free

Provision of free child pass with Out of School Hours Care visits to encourage repeat visitation.

Half price entry on the afternoon of the Special Children's Christmas Party.

Two Zoos Pass (offering 50% off the visit to the other zoo – Adelaide Zoo or Monarto Zoo – if purchased on day of visit).

Entertainment Book – a voucher for each site included in 2017/18 Entertainment Book offering 25% off entry for up to four people.

Disadvantaged group prices.

Special days for community groups and other charities such as Paraquad Days, Christmas Party for Special Children and Playgroup Day and United Way events.

KEY EVENTS AND ACTIVITIES

BOO AT THE ZOO

Halloween came alive at Adelaide Zoo again this financial year with our popular family-friendly Boo at the Zoo event, which was held on 27 October 2017. Romeos and GU filmhouse sponsored the event. Six treat stations were offered and proudly sponsored by Jonny's Popcorn, Kytons Bakery, SA Water, Robern Menz, Adelaide Central Market and Channel Nine. The evening also featured a variety of entertainment items, from children's singing and dancing on the central lawns to pumpkin treats for many of the zoo residents. Totally Wild presenter Leela Varghese generously donated her time to host the event. The event was incredibly popular, selling out early with a total of 3,750 tickets purchased.

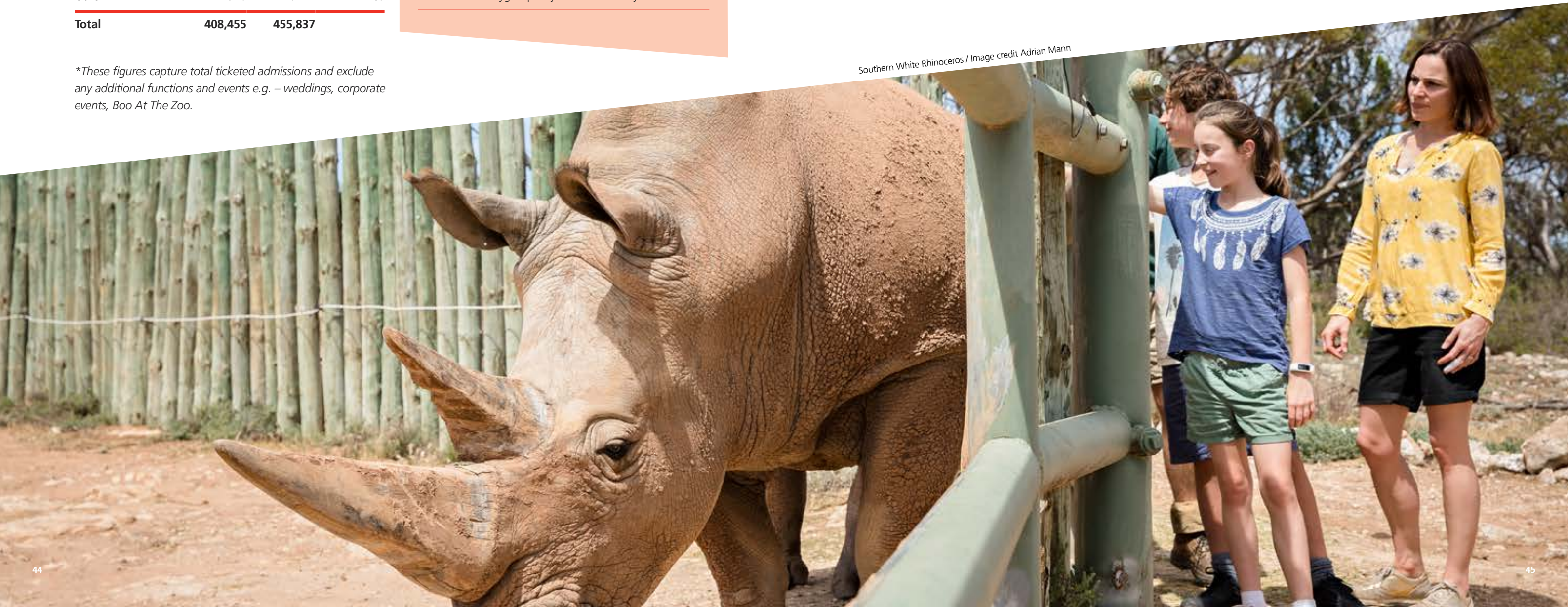
TEDDY BEARS' PICNIC

Adelaide Zoo again celebrated Wang Wang and Fu Ni's birthday on 27th August 2017 with the annual Teddy Bears' Picnic. Guests enjoyed entertainment and a range of activities including the ever-popular Teddy Bears hospital where children could have a health check on their favourite teddy bear.

FATHER'S DAY AND MOTHER'S DAY

Zoos SA partnered with The Advertiser and Sunday Mail to offer mums and dads the chance to visit Adelaide and Monarto Zoo for free on both Mother's and Father's Day. Mums and dads also received free Haigh's Chocolates and massages on their special day, while younger guests were treated to children's craft activities.

Southern White Rhinoceros / Image credit Adrian Mann



An Advancing Organisation



OUR PEOPLE

STAFF

Zoos SA's passionate and capable workforce recorded many positive achievements through the 2017-18 financial year. Through the continued implementation of the Zoos SA People Plan, we're proud to have significantly built on our workforce capabilities.

Conservation passion continues to grow from strength to strength. Each of us strives to share and impart Zoos SA's mission to connect people with nature and save species from extinction by engaging with our visitors to build on conservation initiatives.

PEOPLE PLAN

The Zoos SA People Plan was revised and updated in July 2017 with clear strategies over four key objectives – Workforce Framework and Efficiency, Attraction and Retention; Engagement and Performance and Health and Wellbeing. Both revised and new programs, supported by well-developed implementation programs, have enabled us to gain rewarding results and improvements.

Key achievements for this past 12 months have been:

Continued focus on Dangerous Animal Reviews

Continuing with policy development

Continuing to have significant gains in completion of Performance Development Plans (PDP)

Cultural Wellbeing and Engagement Survey

Negotiation of Enterprise Agreement 2018

WORKPLACE HEALTH AND SAFETY

We are continuing to focus on the fundamentals of Workplace Health and Safety (WHS), ensuring compliance training is completed and employees are inducted. Specific training undertaken this financial year in the WHS area has been:

WHS SPECIFIC SESSIONS:

- Chief Fire Warden training
- Fire Warden training
- Zoos SA safety inductions
- Health and safety representative training – one, two and three years
- Sun Safe training
- Road Management Training and qualification
- Firearms competence assessment Level 1
- Firearms Theory training
- Manual Handling assessments – Targeted at Horticulture department
- CFS Bush fire response training
- Snake Bite first aid response at both zoos
- First aid training
- Remote area first aid
- Asthma emergency first aid
- Fire extinguisher training
- CPR refresher training
- Working at Heights training
- Mental Health first aid
- Contact officer refresher training

Systems and Assets added

- Visitor Management system at both zoos
- Sunscreen Stations at both zoos
- Bus Fire suppression system on all Zoos SA buses

Reviews and audits

- Adelaide Zoo fire systems and housekeeping audit
- Dangerous animal review – Extreme and High classifications
- Full review and update of firearms training

Continuing to focus on safety with events held over Safe Work Month in October 2017, our programs of activities at both Adelaide and Monarto Zoo covered:

- Sun safe toolbox meetings with all departments
- Education Packs on sedentary work and hazards
- Education Packs on how to avoid trips and slips
- Education packs on how to keep 20/20/20 vision
- Installation of sunscreen station at both zoos
- The change of sunscreen companies – from Cancer Council 30+ to Hamilton's 50+
- Mental Health first aid blended training – online and face to face

Through ongoing close management of our workers compensation liability and through early notification and intervention, this continues to drive a culture of early reporting, which in turn is providing financial benefits to the organisation in reduced costs. The strong relationship with our fund managers, Gallagher Bassett, continues to support our results by reduction in our claims over the financial year. Our average cost per claim is \$1,235.94, and we are managing to return employees to pre-injury duties on average within 0-3 months, when outliers are removed.

LEARNING AND DEVELOPMENT

A structured Learning and Development program has been driven from our Performance Development Plans (PDP).

Zoos SA employees have participated in a range of training programs this financial year:

- Quarterly Corporate Inductions
- Duty Manager Training
- Effective Meetings -7 Ps
- Kiosk Training
- When helping begins to hurt – get to know your signs
- Enterprise Trainer and Assessor Program (Accredited)

A "Lunch and Learn" program was initiated to provide a forum for cross department knowledge, sharing:

- The Power of Positive Reinforcement – Chad Crittle
- AZA Conference – Deb Barry/ Rachel Robbins
- Species Management: What is it? – Jodi Buchecker
- Detection of *Mycoplasma agassizii* in terrestrial chelonids in Australia and its implications for zoos and native animals – Dr David McLelland

E-Learning – A total of 453 e-learning sessions were successfully completed on the following topics:

- A Top Class Work Culture Starts With You
- Chemical awareness
- Dealing With Disruptive People
- Developing People
- Equality And Diversity
- Ergonomic Essentials for the Office
- Food Preparation: Safe Approach
- Forklift Safety Essentials
- Handling Aggressive Behaviour in Public
- Height Safety Essentials
- Leadership: Being Proactive in Safety
- Learning From Failure
- Listen To Win
- Office Fire Prevention and Response
- Performance and Wellbeing: For Employees
- Powered Hand Tools: Effectiveness and Safe Operation
- PPE Essentials
- Retail Manual Handling
- Risk Management Safety Essentials
- Running a Productive Meeting
- Safe Driving For Work: Best Practice
- Slips, Trips and Falls
- Understanding Safety at Work
- Warehousing and Storage Safety Essentials
- Workplace Bullying and Harassment
- Workplace Environmental Awareness
- Workplace Fire Prevention and Response
- Zoo Learning MZ Bushfire and Building Fire Procedures
- Zoos SA Drugs and Alcohol in the Workplace

PERFORMANCE DEVELOPMENT PLANS

Performance Development Planning continues on a twice-yearly cycle with a consistent completion rate of over 97%. The review of the Strategic Plan in 2017 triggered a review of the PDP template and the Code of Conduct to reflect and update the values of our organisation.

Our first Human Resources student placement from Flinders University took ownership of our review of the Zoos SA Code of Conduct to align with our Strategic Plan review. Supported by the wider team, our Code of Conduct now reflects a more streamlined and accessible document named "Our Values in Action" to reflect the link between the values' purpose and our day to day behaviour.

The People and Performance Team is now working with the University of South Australia's Business Management Internships to host a number of Logistics and Supply Chain Management students to review current process in a number of areas across the business.

Our Partnerships include:

- SA Power networks Snake awareness DVD (utilised in face to face training sessions)
- Teamgage
- Frontier Solutions
- Beviss Training Solutions
- Davies Stewart Recruitment

SOCIAL CLUB

The Zoos SA Social Club continues to go from strength to strength with 86 financial members and a new recruited committee member.

Social Club Committee objectives include:

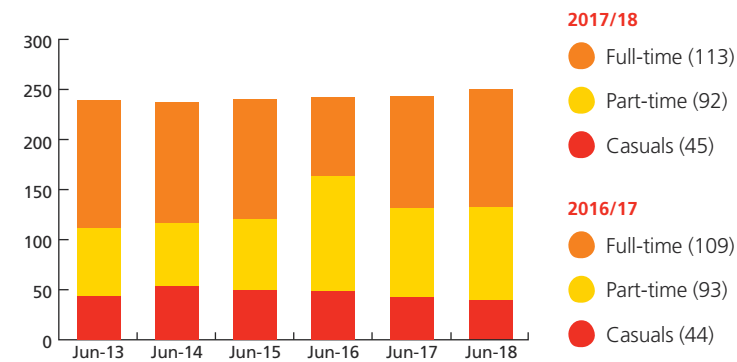
- Maintain a Social Club calendar to ensure a spread of events across the year to engage and connect different areas of our organisation.
- Offer a range of different activities including support for conservation events.
- Increase membership of the Social Club at Monarto Zoo.

Activities in the 2017-18 year included events in both metropolitan Adelaide and the Adelaide Hills region to accommodate as many members as possible:

- After work dinners at The Hackney and Republic Hotels
- Christmas Dinner at Lost in the Forest at Uraidla
- Supplied ice creams during hot weather
- Mexican & Pizza lunches at Adelaide Zoo
- Prancing Pony dinner in Littlehampton
- Easter chocolate rabbits to members
- Café and pizza lunches at Monarto Zoo
- Holey Moley Mini Golf and Cocktail Bar

The Zoos SA Social Club is an opportunity for relaxed social gatherings - all events organised are open for all to attend. The Social Club Committee continue to receive positive feedback from these events and the Social Club Committee will continue to work together to build positive relationships and engagement within our workforce.

EMPLOYEE STATISTICS



EMPLOYEES PER DEPARTMENT AS OF 30 JUNE 2018	FULL TIME	PART TIME	CASUAL	TOTAL
Business Operations	21	40	35	96
Corporate Services	4	7	1	12
Life Science	63	41	9	113
Property & Development	22	3	0	25
People & Performance	3	1	0	4
Total	113	92	45	250

Koala / Image credit Adrian Mann



Volunteers

Zoos SA's 450-strong volunteer group forms an indispensable part of the zoo family and supports a variety of activities within the zoo and beyond.

As a conservation charity, our volunteers play a vital role in helping us in our mission to connect people with nature and save species from extinction.

2017-18 was another busy year in the Zoos SA Volunteer Program. In addition to the 450 volunteers who are already part of our zoo family, we have received almost 362 new queries in the last financial year. We promoted more than 76 opportunities to our new volunteers across 20 programs within the zoo.

Our volunteers generously donated their time, energy and expertise to make a meaningful difference, supporting us to deliver our vital conservation messages to all our visitors. Volunteers at Zoos SA have contributed in excess of 120,000 hours over the past twelve months. This is an equivalent of approximately \$5 million in dollar value to Zoos SA.

Investing in our volunteers is important to us. We seek to provide a rewarding volunteer experience by:

- Matching volunteers to roles
- Providing volunteers with training and development opportunities
- Connecting volunteers to our mission and values
- Celebrating our volunteer's achievements. Our aim is to engage people in volunteering opportunities that are mutually beneficial, enhance our work and support our conservation goals.

KEY HIGHLIGHTS

The total fundraising efforts from volunteer activities resulted in \$79,606 being raised for zoo projects. Grant money contributed to the development of a Koala Exhibit at Adelaide Zoo.

The Annual President's Award for Volunteer of the Year was presented during National Volunteer Week Celebrations which was attended by the Hon. Michelle Lensink, Minister for Human Services. This year's well-deserving recipient was Jennifer Hayes.

Another highlight was the renovation of our volunteer spaces at both Adelaide and Monarto. These spaces are now an inviting and inspirational environment for our volunteers.

Thank you to our volunteers for their commitment, passion and vital contributions to our conservation work.

Image credit Catherine Leo



Property and Development

Zoos SA is a conservation charity that exists to connect people with nature and save species from extinction.

In support of this mission, Zoos SA owns and operates millions of dollars' worth of infrastructure and facilities across both Adelaide and Monarto Zoos.

Our 20-Year Master Plan (2015-2035) sets our vision for the transformation of both Adelaide and Monarto Zoos over the next two decades through an extensive organisational wide capital works program that will represent significant investment on the corporate balance sheet.

These facilities must be properly maintained in order to remain fit for purpose to support the operational and strategic needs of the business which fulfil Zoos SA's mission and vision and protect investment.

To manage this, a Facilities Maintenance Management Framework has been developed. By adopting the framework, Zoos SA will have a consistent and strategic approach to the management, planning and delivery of facility maintenance.

The framework will underpin a sustainable capital base reflective of long-term objectives and resources. This represents a shift of focus from traditional maintenance to management of assets, and hence planning and management of capital requirements above shorter term maintenance cycles. Importantly, it also underpins maintaining the significant value of the property assets to the corporate balance sheet and better manages life-cycle planning. Strategically, it links across broader corporate strategy, and organisational, functional and financial planning.

A key focus of the framework will be to make the highest and best use of the zoo's resources. This focus has informed the recent organisational restructure by creating the new role of Property Services Administrator.

This position will support the processing and administrative requirements for works orders and invoices, service level agreements, maintain regulatory compliance, support the development of policies and procedures, manage central repository, management of asset information, asset register, fleet management, key register and admin assistant functions.

Outcomes anticipated from this initiative are:

- Attendance of Works Requests (WRs) in an order that mitigates highest risk.
- Provide a transparent overview of WRs that will facilitate proper management of our facilities, both short-term fixes and long term strategic planned maintenance.
- Provide visibility around workload, work force structure and composition, leading to informed decision making around supplementing resource levels.
- Allow members of our ground crew to focus on their core duties rather than be distracted by administrative functions.

The past twelve months has seen great outcomes for both the Assets and Horticulture teams.

The teams across both sites have delivered very good results with 124 completed capital projects, two completed projects brought forward and numerous maintenance requests completed resulting in a very successful year.

KEY HIGHLIGHTS:

ASSETS

- Undertake stormwater management works in the Animal Health Centre external yards including drainage installation and surfacing.
- Tiger exhibit redevelopment, consisting of removing the existing pool and associated infrastructure, backfilling the pool to create level land access to the glass viewing area, creating an interactive behind the scenes feeding area, new mock rock walls and hot rock pad adjacent to glass viewing and feeding areas and increasing the capacity of existing glass viewing to withstand potential direct impact from the animals.
- Tamarin House roof and wall structural repairs.
- Tree Kangaroo redevelopment including internal division fencing and redesigned animal housing with internal heating.
- Shipping Container installed at both zoos' retail departments to provide extra storage.
- Heritage Gate Pillar repairs.
- Nocturnal house redevelopment included annex windows covered with graphics, new exhibit signage, replacement of existing lighting and modified light boxes.
- Chimp Finger relocation at the front entrance of Adelaide Zoo to within zoo boundary.
- Wetland area modifications to house Jabiru including a new lockaway and replacement of existing boardwalk and fencing.
- Colobus Exhibit lockaway re-modelled with a new roof and heated perspex boxes. The exhibit was then landscaped to reflect the species' natural habitat.

- Planning for Colobus treehouse and aerial walkways underway with project to commence shortly.
- Pygmy Hippo upgrade of floor heating.
- Hippo stand-off barrier completed to reduce incidents of children standing on hippo exhibit posts.
- Koala Exhibit refurbishment works including a new shade structure and off-limits quarantine area.
- Cassowary Fence upgrades with safety stand-off barrier completed around exhibit perimeter.
- Tamarin aerial raceway extensions.
- Adelaide Zoo Nature Play disability toilet had a disability hoist and new adult change table installed.
- BMS mechanical services rectified.
- Flamingo exhibit converted to Cassowary exhibit which required extensive remodelling of the existing area and included fencing and pond modifications with a new tropical themed landscape.
- Monarto Zoo Indaba classroom renovations including a new disabled access ramp and decking, internal door modifications with additional lighting and a disabled toilet block.
- Bretag Ruin renovations underway in partnership with Bretag family.
- Chimpanzee exhibit heating replaced with more efficient low energy use gas system.
- Construction of new Lion Holding Facility and off-limits raceways linking all existing areas and new area to main exhibit.

- Lions 360 completed and launched to public significantly ahead of schedule.
- Orangutan slides at Adelaide Zoo upgraded.
- Monarto Zoo Nature Playground including the upgrade of rubble pathways, increased visitor seating, pop up meerkat exhibit and shade sails to offer the public a comfortable area to sit.
- Chimpanzee mezzanine lighting upgrade.
- Elephant Shed insulation remediation carried out to reduce deterioration of existing material.
- Fire protection system installed at new Lion lockaway facilities at Monarto.
- New Cheetah holding yard completed.
- New Bongo exhibit fencing completed.
- New pop-up foodery near Windana platform for Adelaide Oval Catering to serve customers awaiting bus services.
- Additional Ticketing booth installed at front entrance of Monarto to cater for extra growth of visitors and reduce queueing at entry to park.
- Eland night shelter constructed in off-limits holding area.
- Hay Shed substrate replaced and built up to provide better drainage to hay shed storage.

HORTICULTURE

- Bolivar browse plantation development which included clearing of the site, installation of irrigation, planting 500 native plant tube stock and installation of vermin protection.
- Increased tree coverage and understorey plantings to Natures Playground at Adelaide Zoo.
- Erythrina trees in front of Lions nature strip coppiced amid safety concerns.
- Entrance green wall planting modifications.
- Drain and cleaning of Sun Bear moat.
- Ongoing tree risk assessments and audits.
- Aldabra Tortoise exhibit redevelopment of landscape including adding screening to western side fence line.
- Installation of turf grass into Emu and Kangaroo yards.
- Installed stormwater management system for Monarto Visitor Centre car park.
- Installed three new concrete Ungulate feed pads.

Golden Lion Tamarin / Image credit Adrian Mann



Sustainability

As an organisation, we are committed to working ethically and sustainably while influencing others to follow our example. With our business's reliance on natural resources and as leaders in species conservation and environmental education, we are in a unique position to showcase environmental sustainability and inspire our visitors to take action in their own lives.

To achieve this, we have been managing our inputs and waste to lighten our environmental footprint and linking our actions with conservation messages and icons. We have also been engaged with key organisations such as SA Water, SENTEK, AGL, Veolia, the Office of Green Industries, Renewables SA and the University of South Australia.

HIGHLIGHTS OF THE YEAR:

2017-18 saw the release of our new Environmental Management Plan (EMP) for 2018 -2023, which supports the sustainability objectives of our Strategic and Business Plans and outlines the organisation's forward sustainability initiatives over the next five years through to 2023. The new EMP sets short and long-term carbon footprint reduction targets and has an increased focus on ethics and corporate and social responsibility.

Other highlights include the acquisition of Eco Tourism Australia Climate Action Leader certification and a strategic LED lighting upgrade across both properties which will further help to reduce our carbon footprint.

WASTE:

Resource recovery for the year has remained relatively static, with a waste recovery rate of 84.4% which is 2.3% down on the previous year. The decrease can be attributed to less organics being generated at Adelaide Zoo due to collection changes and the growth in visitors to Monarto Zoo which currently has no organics service.

WATER:

Mains water consumption for last year has increased by 25% which is a significant increase in consumption that can be attributed to a number of factors.

- The establishment of extra browse plantations which required in excess of 20,000 trees.
- 30% less rainfall than last year and hotter temperatures than average.
- The requirement for extra animal cooling due to heat and less humidity.
- Additional filling of water features that form part of exhibits as a result of the multiplying effects of less rainfall and unusually hotter temperatures.

The Sentek Monarto Acacia browse plantation case study has been a success and saw a paper submitted at an Australian Irrigation conference. Findings will inform the optimum water application rate for the growth and harvesting of browse and ultimately achieve better efficiency in water use.

ENERGY:

Energy consumption for this year has seen a modest reduction of 1% over last year which is slightly less than expected due to a number of factors such as:

- Building management services rectification works and mechanical improvements to client heating and cooling systems which will guarantee effective spatial temperature control and improve creature comfort.
- Unseasonable weather, reduced rainfall and hotter than average spring and summer temperatures.

The AGL Solar Power Purchasing Agreement infrastructure has this year generated 305,000 kWh of renewable energy. A total of 370,000 kWh of renewable energy was generated across both properties from the various solar infrastructure and currently renewable energy accounts for 23.9% of our total electricity consumption which puts us within reach of our 25% renewable energy goal by 2018.

CARBON:

Zoos SA is committed to reducing its carbon footprint and our new EMP has significant carbon reduction targets set from 2018 through to 2023. The EMP target for a 10% reduction in emissions by 2018 has already been achieved from a combination of operational efficiencies and renewable energy which puts us in good stead to meet our Strategic Plan KPI for future carbon reduction targets.

Bison / Image credit Adrian Mann



Information and Communication Technology

The 2017–18 financial year saw many changes and improvements in the area of Information and Communications Technology for Zoos SA.

KEY HIGHLIGHTS

Our new server infrastructure was installed at the beginning of the financial year. This has enabled the organisation to expand the use of digital technology for staff, with all policies and procedures being uploaded to our new corporate intranet.

Development has also commenced on our online forms system with some previously manual forms now being automated using our new intranet.

Communications has seen a focus on expansion, particularly at Monarto Zoo with more facilities being connected using point-to-point wireless technology. The organisation has also recently commenced a project that will see a significant upgrade of links between our two sites, and much improved connectivity to the Internet. These upgrades include redundant links utilising 4G technology, which provide business continuity in case of link failure.

Meekeat / Image credit Dan Schultz

Financial Statements

Cassowary / Image credit: Adnan Mann

ROYAL ZOOLOGICAL SOCIETY OF SOUTH AUSTRALIA INC. EXTRACTS FROM THE AUDITED FINANCIAL STATEMENTS

STATEMENT OF PROFIT OR LOSS AND COMPREHENSIVE INCOME

FOR THE YEAR ENDED 30 JUNE 2018

	2018 \$	2017 \$
REVENUE		
Admissions, Membership and Other Revenue	19,168,735	17,261,997
Grants	8,320,307	7,285,186
Sundry Sales/Income	343,332	293,767
Bequests	42,586	171,901
Total Revenue	27,874,960	25,012,851
EXPENSES		
Salaries, Wages & On-Costs	(14,398,107)	(13,471,627)
Animal Care	(958,444)	(801,976)
Maintenance Consumables	(1,509,964)	(1,452,870)
Cost of Sales	(686,924)	(674,049)
Conservation & Research Projects	(1,831,375)	(1,644,677)
Utilities	(682,107)	(486,733)
Marketing & Promotion	(821,998)	(839,954)
Tours & Experiences	(1,216,492)	(1,173,709)
Depreciation	(2,567,531)	(2,442,831)
Other Expenses	(1,563,031)	(1,528,174)
Total Expenses	(26,235,973)	(24,516,600)
Surplus from operating activities	1,638,987	496,251
Finance Income	67,753	76,045
Finance Expenses	(354,956)	(327,864)
Net Financing Expense	(287,203)	(251,819)
Surplus for the Period	1,351,784	244,432
Other Comprehensive Income/Expense		
Items that will never be reclassified to profit or loss		
Change in fair value of financial assets at fair value through other comprehensive income	(5,500)	31,032
Total Other Comprehensive Income / (Loss) for period	(5,500)	31,032
Total Comprehensive Income for period attributable to members	1,346,284	275,464

ROYAL ZOOLOGICAL SOCIETY OF SOUTH AUSTRALIA INC.
EXTRACTS FROM THE AUDITED FINANCIAL STATEMENTS

STATEMENT OF FINANCIAL POSITION

AS AT 30 JUNE 2018

	2018 \$	2017 \$
CURRENT ASSETS		
Cash and Cash Equivalents	1,103,629	3,883,337
Receivables and Prepayments	1,100,824	924,277
Inventories	477,715	508,555
Total Current Assets	2,682,168	5,316,169
NON CURRENT ASSETS		
Financial Assets at Fair Value	471,101	476,601
Property, Plant and Equipment	47,346,999	46,921,465
Total Non Current Assets	47,818,100	47,398,066
Total Assets	50,500,268	52,714,235
CURRENT LIABILITIES		
Sundry Creditors	1,598,603	4,254,342
Income in Advance	3,202,036	3,227,356
Loans and Borrowings	1,124,061	6,111,904
Employee Benefits	3,270,316	3,148,401
Total Current Liabilities	9,195,016	16,742,003
NON CURRENT LIABILITIES		
Loans and Borrowings	5,358,553	1,431,910
Employee Benefits	288,982	228,889
Total Non Current Liabilities	5,647,535	1,660,799
Total Liabilities	14,842,551	18,402,802
Net Assets	35,657,717	34,311,433
Reserves	2,851	8,351
Retained Funds	35,654,866	34,303,082
Total Equity	35,657,717	34,311,433

ROYAL ZOOLOGICAL SOCIETY OF SOUTH AUSTRALIA INC.
EXTRACTS FROM THE AUDITED FINANCIAL STATEMENTS

STATEMENT OF CASH FLOWS

FOR THE YEAR ENDED 30 JUNE 2018

	2018 \$ INFLOWS (OUTFLOWS)	2017 \$ INFLOWS (OUTFLOWS)
CASH FLOWS FROM OPERATING ACTIVITIES		
Receipts		
Receipts from customers	16,958,638	16,051,776
Donations, Bequests and Sponsorships	3,022,830	1,891,623
Payments		
Wages and Salaries	(14,150,727)	(13,137,536)
Suppliers	(7,675,271)	(6,757,686)
Conservation & Research Projects	(4,431,479)	(391,193)
Net Cash Provided by/(Used in) Operating Activities	(6,276,009)	(2,343,016)
CASH FLOWS FROM INVESTING ACTIVITIES		
Purchase of Property, Plant and Equipment	(2,993,065)	(1,866,865)
Sale/(Purchase) of Shares and Investments	-	63,729
Interest and dividends received	67,753	76,045
Net Cash Provided by/(Used in) Capital and Investing Activities	(2,925,312)	(1,727,091)
CASH FLOWS FROM FINANCING ACTIVITIES		
Net State Government Grants Received	5,708,608	5,604,161
Net Other Grants Received	2,129,161	1,888,180
Net Repayment of Borrowings	(1,061,200)	(792,456)
Payment of Interest	(354,956)	(327,864)
Net Cash Provided by Financing Activities	6,421,613	6,372,021
Net (Decrease)/Increase in Cash Held	(2,779,708)	2,301,914
Cash at the Beginning of the Year	3,883,337	1,581,423
Cash at the End of the Year	1,103,629	3,883,337

**ROYAL ZOOLOGICAL SOCIETY OF SOUTH AUSTRALIA INC.
EXTRACTS FROM THE AUDITED FINANCIAL STATEMENTS**

REVENUES AND EXPENSES

FOR THE YEAR ENDED 30 JUNE 2018

				2018	2017
	ADELAIDE ZOO	MONARTO ZOO	SOCIETY	TOTAL	TOTAL
	\$	\$	\$	\$	\$
REVENUE					
Admissions	5,402,056	2,527,719	-	7,929,775	7,288,171
Education	861,895	248,852	-	1,110,747	987,664
Sponsorship	263,924	62,270	1,085,474	1,411,668	1,677,092
Bequests	-	-	42,586	42,586	171,901
Donations	-	5,463	860,866	866,329	541,775
Membership	-	-	3,618,182	3,618,182	3,279,408
Retail Sales	1,025,359	440,606	-	1,465,965	1,496,686
Catering Sales	647,312	104,521	-	751,833	652,894
Tours Income	429,474	854,788	-	1,284,262	888,922
Events	477,230	-	252,744	729,974	449,385
Sundry Sales/Income	155,806	52,333	135,193	343,332	293,767
Grants	9,786	13,112	8,297,409	8,320,307	7,285,186
Total Revenue	9,272,842	4,309,664	14,292,454	27,874,960	25,012,851
EXPENSES					
Salaries, Wages & On-Costs	6,395,681	3,239,483	4,762,943	14,398,107	13,471,627
Animal Care	265,624	435,065	257,755	958,444	801,976
Maintenance Consumables	1,079,544	326,738	103,682	1,509,964	1,452,870
Cost of Sales	482,970	203,954	-	686,924	674,049
Conservation & Research Projects	-	-	1,831,375	1,831,375	1,644,677
Utilities	511,529	170,578	-	682,107	486,733
Marketing & Promotion	65,728	127	756,143	821,998	839,954
Tours & Experiences	211,998	1,001,631	2,863	1,216,492	1,173,709
Depreciation	-	-	2,567,531	2,567,531	2,442,831
Other Expenses	326,155	118,479	1,118,397	1,563,031	1,528,174
Total Expenses	9,339,229	5,496,055	11,400,689	26,235,973	24,516,600

**ROYAL ZOOLOGICAL SOCIETY OF SOUTH AUSTRALIA INC.
EXTRACTS FROM THE AUDITED FINANCIAL STATEMENTS**

STATEMENT OF CHANGES IN EQUITY

FOR THE YEAR ENDED 30 JUNE 2018

	FAIR VALUE RESERVES	RETAINED FUNDS	TOTAL EQUITY
	\$	\$	\$
Balance at 1 July 2016	(22,681)	34,058,650	34,035,969
Profit/(Loss) for the period	-	244,432	244,432
OTHER COMPREHENSIVE INCOME			
Change in fair value of financial assets at fair value through other comprehensive income	31,032	-	31,032
Total Other Comprehensive Income/(Expense) for period	31,032	-	31,032
Total Comprehensive Income/(Expense) for period	31,032	244,432	275,464
Balance at 30 June 2017	8,351	34,303,082	34,311,433
Balance at 1 July 2017	8,351	34,303,082	34,311,433
Profit/(Loss) for the period	-	1,351,784	1,351,784
OTHER COMPREHENSIVE INCOME/(EXPENSE)			
Change in fair value of financial assets at fair value through other comprehensive income	(5,500)	-	(5,500)
Total Other Comprehensive Income/(Expense) for period	(5,500)	-	(5,500)
Total Comprehensive Income/(Expense) for period	(5,500)	1,351,784	1,346,284
Balance at 30 June 2018	2,851	35,654,866	35,657,717

The financial report for the year ended 30 June 2018 has been prepared in accordance with Australian Accounting Standards, (including Australian interpretations) adopted by the Australian Accounting Standards Board (AASB) and the Associations Incorporations Act.

*Copies of the Audited Financial Statements and Audit Opinion for the year ended 30 June 2018 are available to members at the Annual General Meeting or on our website www.zoossa.com.au

Appendices

Zebras / Image credit Adrian Mann

CITES I SPECIES MANAGED WITHIN ZOOS SA COLLECTIONS (BY CLASS, IN ALPHABETICAL ORDER BY COMMON NAME FOR EASY REFERENCE).

Reptilia

Rhinoceros Iguana	<i>Cyclura cornuta cornuta</i>
Madagascan Tree Boa	<i>Sanzinia madagascariensis</i>
Western Swamp Tortoise	<i>Pseudemydura umbrina</i>

Aves

Hyacinth Macaw	<i>Anodorhynchus hyacinthinus</i>
Illiger's Macaw	<i>Ara maracana</i>
Nicobar Pigeon	<i>Caloenas nicobarica</i>
Orange-bellied Parrot	<i>Neophema chrysogaster</i>
Palm Cockatoo	<i>Probosciger aterrimus</i>
Scarlet Macaw	<i>Ara macao</i>

Mammalia

Addax	<i>Addax nasomaculatus</i>
Black Rhinoceros	<i>Diceros bicornis minor</i>
Brush-tailed Bettong	<i>Bettongia penicillata ogilbyi</i>
Cheetah	<i>Acinonyx jubatus jubatus</i>
Chimpanzee	<i>Pan troglodytes</i>
Cotton-top Tamarin	<i>Saguinus oedipus</i>
Giant Panda	<i>Ailuropoda melanoleuca</i>
Golden Lion-tamarin	<i>Leontopithecus rosalia rosalia</i>
Greater Bilby	<i>Macrotis lagotis sagitta</i>
Greater Stick-nest Rat	<i>Leporillus conditor</i>
Malayan Tapir	<i>Tapirus indicus</i>
Mandrill	<i>Mandrillus sphinx</i>
Mesopotamian Fallow Deer	<i>Dama mesopotamica</i>
Nepalese Red Panda	<i>Ailurus fulgens fulgens</i>
Przewalski's Horse	<i>Equus ferus przewalski</i>
Ring-tailed Lemur	<i>Lemur catta</i>
Scimitar-horned Oryx	<i>Oryx dammah</i>
Siamang	<i>Symphalangus syndactylus</i>
Sumatran Orang-utan	<i>Pongo abelii</i>
Sumatran Tiger	<i>Panthera tigris sumatrae</i>
White-cheeked Gibbon	<i>Nomascus leucogenys</i>

APPENDIX A CITES LISTED SPECIES

There are approximately 5,000 species of animals and more than 28,000 species of plants protected by the Convention on International Trade in Endangered Species of Wild Fauna and Flora (CITES). These species are listed in one of three CITES Appendices, according to how threatened they are by international trade. Animals listed under CITES Appendix I are those species threatened by extinction. The exchange of these species is permitted only in certain circumstances. These restrictions have implications for the maintenance of CITES I species in the zoo environment, as the import of such species can be a long and expensive exercise. These species, in particular, highlight the need for effective population management, with any CITES I species required to be managed under the Department of the Environment's cooperative conservation program. Adelaide Zoo currently houses 23 species of CITES I listed animal, while Monarto Zoo maintains 9 CITES I.

INTERNATIONAL UNION FOR THE CONSERVATION OF NATURE LISTED SPECIES

The International Union for the Conservation of Nature (IUCN) has been assessing the conservation status of animal and plant species on a global scale for more than forty years. The categories and criteria are intended to be an easily and widely understood system for classifying species at a high risk of extinction. IUCN listed species are represented throughout most of the taxonomic groups currently held at Adelaide and Monarto Zoos.

SPECIES WITHIN ZOOS SA COLLECTION LISTED IN IUCN CATEGORIES OF MOST CONCERN

Extinct in Wild

Scimitar Oryx	<i>Oryx dammah</i>
---------------	--------------------

Critically Endangered

Addax	<i>Addax nasomaculatus</i>
Axolotl	<i>Ambystoma mexicanum</i>
Black Rhinoceros	<i>Diceros bicornis minor</i>
Brush-tailed Bettong	<i>Bettongia penicillate ogilbyi</i>
Cotton-top Tamarin	<i>Saguinus oedipus</i>
Eastern Bongo	<i>Tragelaphus enrycerus isaaci</i>
Orange-bellied Parrot	<i>Neophema chrysogaster</i>
Regent Honeyeater	<i>Xanthomyza phrygia</i>
Sumatran Orang-utan	<i>Pongo abelii</i>
Sumatran Tiger	<i>Panthera tigris sumatrae</i>
Western Swamp Tortoise	<i>Pseudemydura umbrina</i>
White-cheeked Gibbon	<i>Nomascus leucogenys</i>

Endangered

African Wild Dog	<i>Lycaon pictus</i>
African Grey Parrot	<i>Psittacus erithacus</i>
Australian Sea-lion	<i>Neophoca cinerea</i>
Chimpanzee	<i>Pan troglodytes</i>
Elongate Tortoise	<i>Indotestudo elongate</i>
Golden Lion-tamarin	<i>Leontopithecus rosalia rosalia</i>
Goodfellow's Tree-kangaroo	<i>Dendrolagus goodfellowi</i>
Hardyhead	<i>Craterocephalus fluviatilis</i>
Hyacinth Macaw	<i>Anodorhynchus hyacinthinus</i>
Malayan Tapir	<i>Tapirus indicus</i>
Mesopotamian Fallow Deer	<i>Dama mesopotamica</i>
Nepalese Red Panda	<i>Ailurus fulgens fulgens</i>
Northern Quoll	<i>Dasyrus hallucatus</i>
Przewalski's Horse	<i>Equus ferus przewalski</i>
Pygmy Blue-tongue Lizard	<i>Tiliqua adelaidensis</i>
Pygmy Hippopotamus	<i>Choeropsis liberiensis</i>
Ring-tailed Lemur	<i>Lemur catta</i>
Siamang	<i>Symphalangus syndactylus</i>
Southern Bell Frog	<i>Litoria raniformis</i>
Sun Conure	<i>Aratinga Soltitialis</i>
Swift Parrot	<i>Lathamus discolor</i>
Tasmanian Devil	<i>Sarcophilus harrisii</i>
White-bellied Caique	<i>Pionites leucogaster</i>
Woma Python	<i>Aspidites ramsayi</i>

Vulnerable

African Lion	<i>Panthera leo senegalensis</i>
Aldabra Tortoise	<i>Geochelone gigantean</i>
Australian Hooded Plover	<i>Charadrius rubricollis</i>
Brazilian Tapir	<i>Tapirus terrestris</i>
Broad-headed Snake	<i>Hoplocephalus bungaroides</i>
Chattering Lory	<i>Lorius garrulous</i>
Cheetah	<i>Acinonyx jubatus jubatus</i>
Common Hippopotamus	<i>Hippopotamus amphibious</i>
Crimson-bellied Conure	<i>Pyrrhura perlata</i>
Double-wattled Cassowary	<i>Casuaris casuaris johnsonii</i>
Ghost Bat	<i>Macroderma gigas gigas</i>
Giant Panda	<i>Ailuropoda melanoleuca</i>
Giraffe	<i>Giraffa camelopardalis</i>
Greater Bilby	<i>Macrotis lagotis sagitta</i>
Greater Stick-nest Rat	<i>Leporillus conditor</i>
Java Sparrow	<i>Padda oryzivora</i>
Malayan Sun Bear	<i>Helarctos malayanus malayanus</i>
Malleefowl	<i>Leipoa ocellata</i>
Mandrill	<i>Mandrillus sphinx</i>
Quokka	<i>Setonix brachyurus</i>
Rhino Iguana	<i>Cyclura cornuta</i>
Small-clawed Otter	<i>Aonyx cinerea</i>
Spur-thighed Tortoise	<i>Testudo graeca</i>
Yabby	<i>Cherax destructor</i>
Yarra Pygmy Perch	<i>Nannoperca obscura</i>

APPENDIX B PROFESSIONAL MEMBERSHIPS

Zoo and Aquarium Association (ZAA) Board Member, Finance, Audit and Risk Committee and Chair of Wildlife Conservation Committee, Board member Children's University Advisory Board, Uni SA Business School Advisory Board, The Australian Rhino Project Board, International Koala Centre of Excellence Advisory Board and the World Association of Zoos and Aquariums Finance Committee - Elaine Bensted

Wildlife Ethics Committee – Dr Ian Smith, Dr David McLelland, Dr Lynley Johnson, Kate Fielder and Mary Johnson.

Veterinary Surgeons Board of South Australia – It is compulsory for all Zoos SA veterinarians to hold this

American Association of Zoo Veterinarians – Dr Ian Smith and Dr David McLelland

Association of Reptilian and Amphibian Veterinarians – Dr Ian Smith

Association of Avian Veterinarians – Dr David McLelland

Wildlife Diseases Association – Dr Ian Smith, Dr David McLelland, Dr Jenny McLelland (Executive Member), Dr Lynley Johnson and Dr Jerome Kalvas.

Wildlife Health Australia - Dr Ian Smith, Dr David McLelland, Dr Jenny McLelland, Dr Lynley Johnson and Dr Jerome Kalvas

Zoo Animal Health Reference Group Chief Veterinary Officer appointee – Dr Ian Smith

Australian and New Zealand College of Veterinary Scientists – Dr Ian Smith (Wildlife Medicine), Dr David McLelland (Zoo Medicine; Chair of Chapter Examinations Committee for Zoo and Wildlife Medicine), Dr Lynley Johnson (Zoo Medicine), Dr Jenny McLelland (Avian Medicine)

American College of Zoological Medicine – Dr David McLelland

European College of Zoological Medicine – Dr David McLelland

Veterinary Nurses Council of Australia – Dianne Hakof

ZAA Taxon Advisory Group Veterinary Advisory Group membership – Herpetofauna/Reptiles (Dr David McLelland – Principle Veterinary Advisor), Ungulates (Dr Ian Smith), Amphibians (Dr Jerome Kalvas), Carnivores & Small Exotics (Dr Ian Smith and Dr Jerome Kalvas), Australian Terrestrial Fauna (Dr David McLelland) and Birds (Dr Jenny McLelland, Dr David McLelland and Dr Lynley Johnson)

Australian Mammal Society – Liberty Olds

Ecological Society of Australia – Liberty Olds

South Australian Herpetology Group – Phil Ainsley

ZAA Australian Species Management Plan - Gert S kipper (Committee member, Carnivore and Small Exotic Mammal TAG Co-convenor) and Jodi Buchecker (Australian Mammals TAG Co Convenor)

IUCN Species Survival Commission Conservation Planning Specialist Group – Peter Clark

Conservation Centres for Species Survival – Peter Clark

The Zoo and Aquarium Association – Peter Clark

The MurrayLands Industry Leaders Group – Peter Clark

The Royal Entomological Society of London Fellowship – Peter Clark

APPENDIX C STUDBOOKS MANAGED BY ZOOS SA

Studbooks are used worldwide to effectively manage ex-situ animal populations of wild animals. Studbooks contain the registration details of each animal of a particular species in captivity, including the animals' sex and birthdate, genetic profile, historical data and husbandry requirements. Studbook keepers maintain these databases and make recommendations for particular species in a regional capacity. Zoos SA currently manages the following studbooks:

ASMP SPECIES STUDBOOKS MANAGED BY ZOOS SA EMPLOYEES

SPECIES	TAG	STAFF MEMBER	POSITION
Black-winged Stilt	Himantopus himantopus leucocephalus	V Wilson	Species Coordinator
Bush Stone-Curlew	Burhinus grallarius	A Guinsberg	Species Coordinator
Brush-tailed Bettong	Bettongia penicillata	Liberty Olds	Species Coordinator
Ghost Bat	Macroderma gigas gigas	Lucy Catt	Species Coordinator
Greater Bilby	Macrotis lagotis sagitta	J Buchecker	Species Coordinator
South Australian Mainland Tammar Wallaby	Macropus eugenii eugenii	J Buchecker	Species Coordinator
Southern Hairy-nosed Wombat	Lasiorhinus latifrons	G Skipper	Species Coordinator
White-browed Woodswallow	Artamus superciliosus	V Wilson	Species Coordinator
Yellow-footed Rock-wallaby	Petrogale xanthopus xanthopus	J Buchecker	Species Coordinator

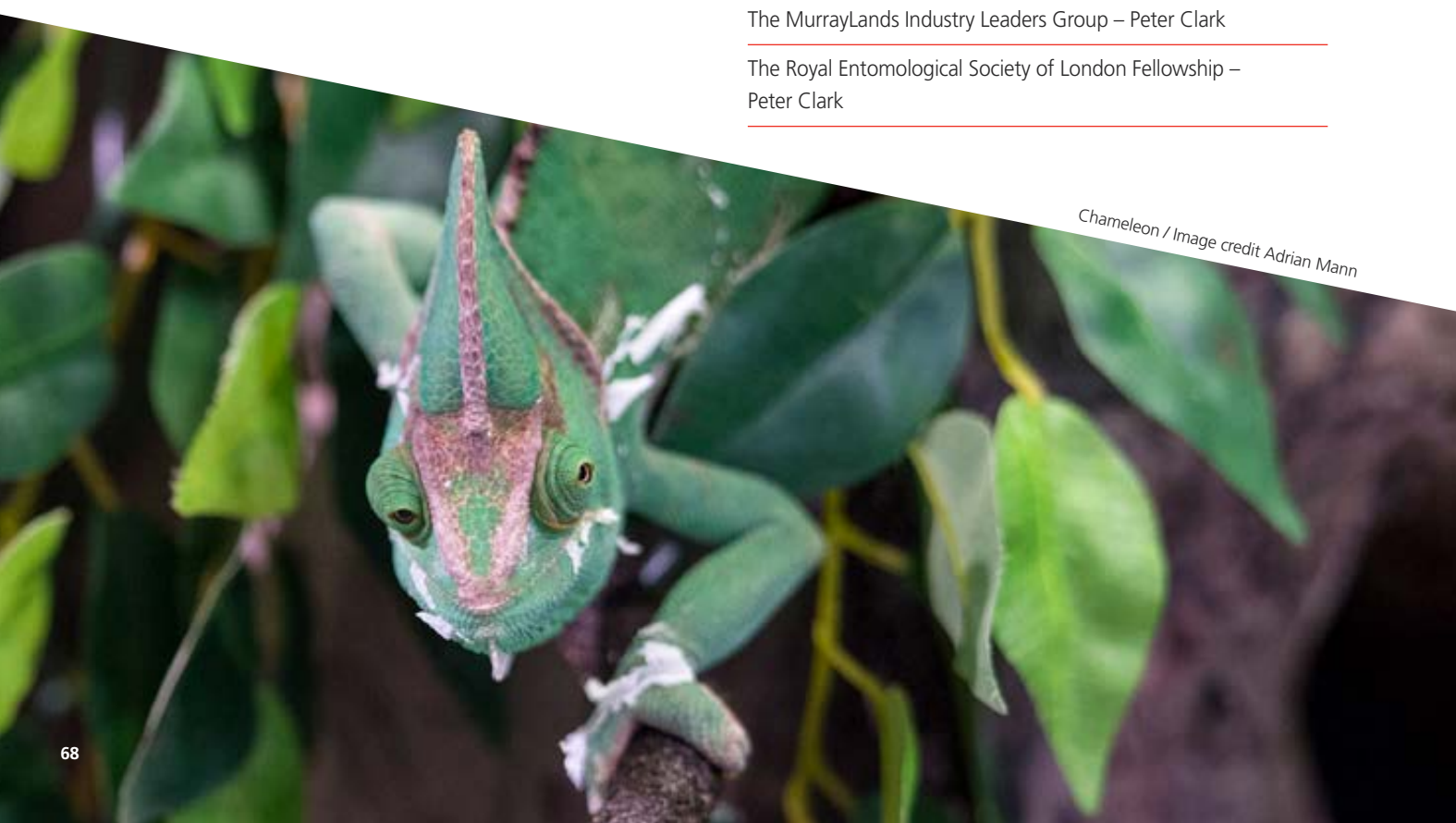
APPENDIX D

CONSERVATION RECOVERY TEAMS

Recovery teams are critical collaborations of government and non-government stakeholders and experts with a shared interest to develop and implement a recovery plan for a nationally listed species and/or an ecological community. Zoos SA is contributing both to captive and wild conservation efforts across many of these teams.

ZOOS SA STAFF REPRESENTATIVES ON SPECIES RECOVERY TEAMS

SPECIES	REGION	STAFF MEMBER
Black-flanked Rock-wallaby	State	B. Pohl, L. Olds, A. Guinsberg
Greater Bilby	State	J. Buchecker
Malleefowl	National	Mal Norman
Murraylands Threatened Flora	State	P. Ainsley
Orange-bellied Parrot	National	P. Ainsley
Plains Wanderer	National	P. Ainsley
Pygmy Blue-tongue Lizard	State	P. Ainsley
Regent Parrot	State	D. McLelland
Southeast Red-tailed Black-cockatoo	National	L. Olds
Threatened Mallee Bird Implementation Team	National	L. Olds
Western Swamp Tortoise	WA state	P. Ainsley



Chameleon / Image credit Adrian Mann

APPENDIX E RESEARCH

We consider it a core part of our organisational activities to conduct research that seeks to advance and inform the goals of Zoos SA. Be it captive breeding, captive management, welfare, wildlife health, zoological medicine, ecology, or education, our research activities provide outcomes both for Zoos SA and the broader conservation community. In many instances, we partner collaboratively with external organisations, and many projects are conducted by undergraduate and post-graduate research students. The volunteers in the Animal Health Centre Laboratory provide support and services to range of conservation and research projects within and beyond Zoos SA.

The Wildlife Ethics Committee (WEC) is convened jointly by the SA Department of Environment and Water, the South Australian Museum and Zoos SA. A number of Zoos SA staff members serve on the WEC, including Ian Smith (Deputy Chair), David McLelland, Lynley Johnson, Kate Fielder, and Mary Johnson.

RESEARCH PROJECTS

Projects that Zoos SA have been, or continue to be, involved with are listed below.

These include several projects the Animal Health Department has developed in direct response to significant collection health management issues listed in the 2016-17 Annual Report – adenovirus infection in orange-bellied parrots, marmoset wasting syndrome, and *Mycoplasma agassizii* infection in land tortoises.

Department for Environment and Water

- Health monitoring and biotelemetry of Regent Parrots (*Polytelis anthopeplis*) in the SA Riverland

University of Adelaide

- Wayne Boardman, PhD Candidate: Grey Headed Flying Fox (disease epidemiology).

- Dena Piro, PhD Candidate: Pharmacokinetic studies of enrofloxacin, meloxicam and Praziquantel in Tasmanian Devils (*Sarcophilus harrisii*).
- Peri Stenhouse, PhD Candidate: Mallee fowl (*Leipoa ocellata*) in a changing climate: can we help a threatened species adapt to a drier and hotter environment?
- Chelsea Graham, PhD Candidate: Characterising the biology of Tasmanian Devil Schwann cells to advance our understanding of Devil Facial Tumour Disease.
- Jacob Maher, Honours: The Changing Conservation Role of Zoos through Tim

DVM1 Clinical Research Projects, 2017:

Evaluation of microbial and nutritional implications of different methods of soaking/sprouting seeds for psittacines.

Post-mortem assessment of the macropod heart.

Antioxidant capacity of koalas.

The microbiome of Macropod Progressive Periodontal Disease in macropods.

Characterisation of Porphyromonas isolates from the oral cavity of macropods using MALDI-TOF MS vs whole genome sequencing.

Pharmacokinetics of the antimicrobial pradofloxacin in long-necked turtles.

Attempted *in vitro* culture of *Mycoplasma agassizii*

Assessing the impact of pradofloxacin on the gut microbiome of tortoises.

Investigating enzootic interstitial pneumonia in Barbary sheep (*Ammotragus lervia*).

- DVM1 Clinical Research Projects to be undertaken Semester 2, 2018:

Characterisation of the faecal microbiome of captive marmosets and tamarins

Welfare of captive reptiles

Analysis of blood results from brush-tailed bettongs (*Bettongia penicillata*), Venus Bay.

Flinders University

- Nicole Anderson (Zoos SA staff member), PhD candidate: Parvovirus vaccine efficacy and stress response studies in African Wild Dogs (submitted 2018; Dr Ian Smith co-supervisor).
- Tara Daniels, PhD Candidate: What makes for a good translocation: A case study of the Pygmy Bluetongue.

- Lucy Clausen, PhD Candidate: Translocation as a conservation strategy: Assessing the genetic risks of admixture using the endangered Pygmy Bluetongue Lizard.

University of South Australia

- Remote detection of heart rate and respiration rate in various species.

Murdoch University

- Jessica Rendle, PhD Candidate: Epidemiology of the clinical syndrome lumpy jaw in captive macropods: influence of housing and husbandry.
- Surveillance of captive tortoise populations in Australia for *Mycoplasma agassizii*.
- Surveillance of viral and bacterial pathogens in captive snakes at Adelaide Zoo.

University of Sydney

- Jessica Talbot, PhD Candidate: What causes avian aspergillosis? A molecular approach to species identification.
- Lucinda Barton, PhD Candidate: Degenerative Joint Disease in Captive Large Cats: Improving Clinical Management and Treatment Outcomes

APPENDIX F CONFERENCE PRESENTATIONS AND WORKSHOP ATTENDANCES

DATE	CONFERENCE, PRESENTATION AND/OR WORKSHOP	STAFF MEMBER	PRESENTATION/PAPER PRESENTED
Sep 2017	Wildlife Disease Association, Australasian Section, Fall's Creek, Vic	Jenny McLelland, David McLelland, Nian Young and David Phalen	Investigation of a mortality in orange-bellied parrots at Adelaide Zoo, and the detection of psittacid adenovirus.
		David McLelland and Tim Hyndman	Detection of <i>Mycoplasma agassizii</i> in terrestrial chelonids in Australia.
Oct 2017	Radiography Association SA Branch Conference	David McLelland	Diagnostic imaging of zoo animals.
Mar 2018	Veterinary Nurses Council of Australia Annual Conference, Adelaide	Dianne Hakof, Rebecca Probert, Lynnette Drabsch, Nikki Anderson.	
Apr 2018	Zoo and Aquarium Association Veterinary Advisory Group Face to Face	David McLelland and Jenny McLelland	
May 2018	Wildlife Surveillance Project Face to Face Meeting, Wildlife Health Australia, Sydney	Jerome Kalvas	
Oct 2017	ZIMS for Studbooks training Sydney	Jodi Buchecker	
Oct 2017	ASMP TAG workshop in Sydney	Jodi Buchecker	
Oct 2017	World Association of Zoos and Aquaria – Berlin	Elaine Bensted and Peter Clark	
Oct 2017	CPSG Annual Meeting – Berlin	Peter Clark	
Oct 2017	ASZK attendance, Moonlight Sanctuary, Vic	Kellie Howes	
Oct 2017	ZIMS and Tag Workshop, Sydney	Vaughan Wilson	
Nov 2017	Invertebrate Husbandry and Display Workshop, Cairns	James Morrison	
Apr 2018	Conservation Centers for Species Survival Conference in Austin, Texas	Peter Clark	
May 2018	ASZK Conference in Frankston	Jodi Buchecker	
May 2018	Zoo and Aquarium Association Conference at Wellington	Elaine Bensted, Sarah Brown, and Gert Skipper	<i>Storyvolution and Uneasy lies the head that wears the crown: creative collaboration for conserving the king of beasts</i>
		Nic Bishop	
	Co-convened Engagement Specialist Advisory Group Conference	Jonathon Noble	
May 2018	APY lands	Heidi Baker	
May 2018	Curlew summit, Victoria	Althea Guinsberg	
Jun 2018	Greater Bilby National Recovery Team Meeting	Jodi Buchecker	
		Staff attended 17 National and State Species Recovery meetings and Advisory meetings.	Lib Olds, Ian Smith, Charlie Romer and Emma Macchia.

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