Arn ngm

ALFA (NT) Limited Annual Report 2021



Arnhem Land Fire Abatement

ALFA (NT) Limited ABN 81 166 922 569 PO Box 40222 Casuarina NT 0810

0437 272 043 ceo@alfant.com.au alfant.com.au

Front cover: Students perform burning under the guidance and instruction of ASRAC rangers at ASRAC's Djilpin Fire Camp. Photo by Chrystal Burgher.

Right: Aerial imagery illustrates the difference between burnt and unburnt country, on the right showing a cool early dry season burn that has gone out overnight. Photo © Matthew Abbott.

Back cover: Firefighting essentials including backpack blowers and fuel are loaded into a sling, ready to be dropped into a wildfire. Photo courtesy of Warddeken Land Management.

1 — Jon Altman, Jennifer Ansell and Dean Yibarbuk (2020) No ordinary company: Arnhem Land Fire Abatement (Northern Territory) Limited, Postcolonial Studies, 23:4. 552-574



This report is printed on Envirocare 100% Recycled. It is manufactured entirely from waste paper without the addition of optical brighteners. It is made in a facility that is ISO 14001 accredited and with process chlorine free pulps; thereby helping to reduce harmful by-products.

Design - rodeo.com.co Copywriting - Georgia Vallance

Established in 2015 by Aboriginal Traditional Owners from Arnhem Land to support their engagement with the carbon industry, ALFA currently supports Traditional Owners and their affiliate ranger programs to deliver five registered fire projects across an area of over 80,000 km².

Arnhem Land Fire Abatement – ALFA (NT) Limited — is an entirely Aboriginal-owned, not-for-profit carbon farming business.

At the onset of the dry season, Traditional Owners and rangers responsible for the remote tropical savannas of Arnhem Land apply customary fire knowledge and skills to strategically burn their country. These highly sophisticated landscape scale fire management practices have been performed since time immemorial.



Today, ALFA's partner groups use customary knowledge in tandem with modern technologies to deliver fire management programs that address critical environmental solutions at local, national and global levels.

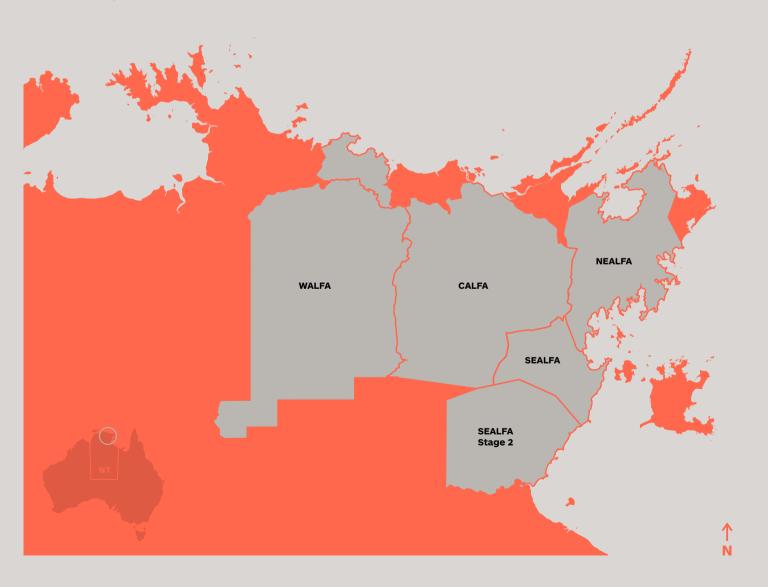
In a landscape that has evolved through the deliberate and nuanced use of fire, the vital work performed annually by rangers across Arnhem Land is resourced through their participation in the carbon economy.

ALFA facilitates this engagement with the carbon industry, supporting Traditional Owners and rangers to deliver best-practice fire management projects that generate environmental, cultural and social benefits, producing carbon credits of the highest integrity.

Drip torches are used to efficiently ignite dried grass and vegetation as rangers traverse country. Photo © Renae Saxby.

Nine Aboriginal ranger groups consisting of Traditional Owners and their families operate a total of five ALFA fire projects, which generate Australian Carbon **Credit Units (ACCUs) through the** Savanna Burning Methodology.

Map of project areas



- West Arnhem Land Fire Abatement (WALFA) project
- Central Arnhem Land Fire Abatement (CALFA) project
- South East Arnhem Land Fire **Abatement (SEALFA) project**
- South East Arnhem Land Fire **Abatement 2 (SEALFA2) project**
- North East Arnhem Land Fire **Abatement (NEALFA) project**

Collectively, these groups manage an area of over 80,000 km² encompassing rugged intact riparian ecosystems, floodplains, remote coastal regions and vast expanses of savanna.

sandstone escarpments, monsoon rainforest,

Children from communities across ALFA project areas are introduced to fire at a young age, and taught to responsibly harness fire as a landscape management tool.

Tyson Maralngurra has grown up immersed in customary fire practice at his homeland in \western Arnhem Land. He has also grown up participating alongside his family in land and cultural management activities facilitated by the local Warddeken rangers, such as bushwalks, culture camps, rock art and biodiversity monitoring surveys and Anbinik (Allosyncarpia ternata) protection. Photo © Matthew Abbott.

The following values represent the objectives for which ALFA was established. All income generated through the sale of carbon is spent in line with these objectives.

To preserve and conserve native Australian fauna and flora through bushfire management activities that accord with Aboriginal traditional rights and obligations and Australian law.

To collaboratively pursue the investigation, development and implementation of other activities which will protect, preserve and care for the environment and which are consistent with Aboriginal traditional rights and obligations and Australian law.

In relation to Aboriginal persons who have a traditional Aboriginal connection with any part of the project area, to provide for the relief of poverty, sickness, suffering, distress, misfortune, destitution, helplessness or the aged.

To provide for the advancement of education of Aboriginal persons who have a traditional Aboriginal connection with any part of the project area.

To protect, preserve and care for the environment through abatement of the level of global greenhouse gas emissions by utilising bushfire management activities.

Governance

ALFA (NT) Limited has eight membership classes, representing the operational areas of the ranger groups and organisations that operate each of the five fire projects.

"The specific Indigenous form of participatory governance that guides ALFA's operations, always cognisant of Landowner authority, is fundamental to ALFA's ability to support forms of Aboriginal-led development focused on conservation."1



Fire ecologist, ALFA board member and cultural leader Dr Otto Campion speaks at the 2021 pre-season meeting. Photo © David Hancock.

Membership of the ALFA is open to Aboriginal people Board of Directors and Staff as at with customary responsibilities for those parts of **30th November 2021** Arnhem Land under active bushfire management as Adjumarllarl – Shaun Namarnvilk, Anderson Nalorlman one of the five registered projects.

ALFA is governed by 16 Aboriginal Directors. Jawoyn – Tony Walla, Steven Andrews Two Directors are elected from each of the eight Mimal – Alfred Rickson, Leon Lawrence membership classes.

The Company also employs a Chief Executive Officer, a Chief Financial Officer, a Capacity Development and Training Manager, a Bushfire Project Officer, and a Seasonal Bushfire Officer (as required).

ASRAC — Gladys Malibirr, Otto Campion Bawinanga – Victor Rostron, Felina Campion SEAL — Clarry Rogers, Clive Nunggarrgalu Warddeken — Conrad Maralngurra, Terrah Guymala Yirralka — Lirrpiya Mununggurr, Shane Wuthara Wunungmurra

CEO — Jennifer Ansell CFO — John O'Brien Capacity Development and Training Manager — Mark Desailly Bushfire Project Officer – Stephanie Rouse Governance Facilitators - Paul Josif, Sally Clifford



In rugged terrain such as the Arnhem Plateau, helicopters are essential to deliver fire management. Photo © Matthew Abbott.

ALFA Membership is made up of Traditional Landowners from the nine partner ranger groups





Bawinanga





Victor Rostron



Felina Campion



Warddeken

Conrad

Maralngurra

Terrah Guymala



Adjumarllarl



Shaun Namarnyilk



Anderson Naloriman



Mimal



Alfred Rickson





Jawoyn





Tony Walla



Gladys Malibirr





Steven Andrews

Otto Campion







Leon Lawrence



SEAL



Clarry Rogers



Clive Nunggarrgalu



Yirralka



Lirrpiya Mununggurr



Shane Wuthara Wunungmurra







Contract Governance Facilitators



Top left to right: Jennifer Ansell (CEO), John O'Brien (CFO), (Capacity Development and Training Manager), Stephanie Rouse (Bushfire Project Officer), Paul Josif (Governance Facilitator), Sally Clifford (Governance Facilitator).

ALFA staff

2021 has been an exceptional year for ALFA on many fronts.



across Arnhem Land coordinate highly sophisticated Aboriginal rangers in Arnhem Land. Over the next three projects that support and enhance the fire years, ALFA will work with our partners to develop and management rights and obligations of Traditional deliver a model of accredited fire management training Owners. This model of Traditional Owner-led project that combines on-the-job training and mentoring and is ownership and delivery, the founding principle for specific to the needs and cultural environment in which which ALFA was created, continues to deliver incredible Aboriginal rangers in Arnhem Land operate. results for people, for country and, through the production of significant greenhouse gas abatements, In 2021, ALFA and project partners worked with the for climate change mitigation. In 2021, the five Northern Land Council (NLC) to undertake planning ALFA projects abated just under 700,000 tonnes and consultation for a new fire abatement project in of greenhouse gas emissions generating almost north-west Arnhem Land. Many years in the making, 700,000 ACCUs.

ALFA build capacity to further support the growing needs of our partner Aboriginal organisations.

The first of these is the addition of accredited fire management training capability within ALFA. This will The Savanna Fire Management Methods have been enable rangers to continue to build their capacity an important contributor to emissions reduction in whilst creating a framework to recognise existing skills Australia since the inception of the Carbon Farming

Every year, ALFA's partner Aboriginal ranger groups and knowledge - realising this long-held aspiration of

the formalisation of the consultation process was an important milestone for Traditional Owners. ALFA looks In 2021, the operationalisation of new projects has seen forward to supporting the three project partners – the Garngi, Mardbalk and Adjumarllarl rangers, who will coordinate the project with Traditional Owners – with their first year of fire operations to begin in 2022.

Initiative Act in 2011. Over the years the savanna Landowners. These incredible organisations are each methods have been updated many times to incorporate cornerstones of their communities and work tirelessly advances in carbon accounting science. In 2021, we to improve the health of their country and the lives of welcomed the announcement by the Clean Energy their people. Regulator that the savanna methods would be prioritised for an update in 2022 to include further Finally, once again, I wish to acknowledge and thank carbon pools. The continued development of these ALFA's small team of staff members who work with methods represents a significant opportunity for the dedication and enthusiasm to support the operation ALFA projects to significantly increase not only of the fire projects and the continued capacity the economic returns generated from the fire projects development of project partners. but also the environmental, cultural and social returns from investment in the fire project areas. On behalf of ALFA's Board of Directors, I am very proud

The global focus on international climate policies in the lead-up to the 26th Conference of the Parties in November 2021 saw the Australian carbon price strengthen significantly, rising to record prices. As we go to press with this Annual Report in 2022, I am excited about what the future holds for our project partners, the Aboriginal ranger groups and their host organisations who coordinate and undertake all of the fire management operations with Traditional

Jennifer Ansell CEO

> to present the ALFA Annual Report and celebrate the many achievements from Arnhem Land in 2021.

Jennif Awell

Core strategic actions of ALFA customary fire management



Engage the right people for country in the planning and delivery of all fire management activities.

Burn early in the dry season at times of heavy dew and little wind, so that fires burn slow and cool, and go out overnight.

Burn strategically, using natural breaks such as moist ground along creeks, cliff lines and tracks to leave patches of unburned country surrounded by burned breaks.



Protect fire sensitive ecological communities, flora and fauna by utilising cool burning and creating early-burned breaks.

Left to right: Bawinanga rangers and Landowners discuss early dry season (EDS) burning plans for the Djelk IPA; An ASRAC ranger uses a drip torch to perform on ground burning; SEALFA rangers prepare to take to the skies for aerial prescribed burning (APB): Warddeken rangers maintain a firebreak around fire sensitive Anbinik (Allosyncarpia ternata) forests; Warddeken rangers back burn from a rock art site after clearing detritus from the floor of the shelter; Emerging generations of Traditional Owners are taught to respect and harness fire as a tool for managing country.

Protect sacred sites, rock art galleries, burial sites and other sites of cultural significance by creating early-burned breaks.

Teach the next generation of **Traditional Owners to master** customary fire management skills and knowledge, preparing them to take over the project in the future.



Above: Warddeken Chairperson and ranger Conrad MaraIngurra conducts burning in the early evening with children from the community. Photo © Matthew Abbott.

Opposite right: Attendees at one of the first meetings to bring together Landowners from across west and central Arnhem Land to discuss fire management, held at Weemol in 2005. Many of the leaders in this image are now deceased, though their legacy lives on. Image courtesy of Peter Cooke

A homegrown success story

The history of fire projects in west Arnhem Land



The story of ALFA begins with the ground-breaking and late dry season fires for a range of vegetation West Arnhem Land Fire Abatement (WALFA) project, communities. A group of Indigenous fire experts and the first savanna burning abatement project anywhere non-Indigenous scientists continued working together in the world.

In the mid-1990s, senior Aboriginal Landowners research went on to become the foundation of the from western Arnhem Land and a small group of current Savanna Burning Methodology. non-Aboriginal scientists began a conversation about the importance of fire in the landscape. Despite these exciting developments, for the Elders and leaders explained that before the Traditional Owners and rangers of west Arnhem depopulation of the Arnhem plateau and surrounding Land, managing fire at the scale necessary remained areas, fire was the key tool used to care for their estates. beyond their financial capability. In 2006, after years of They spoke of "orphaned country", whose Landowners negotiation, a trailblazing solution was reached when had been drawn to missions and settlements, and ConocoPhillips entered into the West Arnhem Fire were concerned that without customary management, Management Agreement (WAFMA) with the Northern especially of fire, the physical and spiritual Indigenous Territory Government. This first-of-a-kind agreement estate was sick.

Satellite fire histories corroborated Traditional Owner's Arnhem Land (the WALFA project area) to offset GHG concerns, showing fire regimes across the region emissions from their newly established Darwin Liquified dominated by late dry season wildfire, often burning intensely over thousands of square kilometres and only extinguished with the coming of the annual wet The WALFA project proved to be an innovative and season rains.

management as a key contributor to this vision.

Over the next decade, Indigenous ranger groups in at a landscape scale. Arnhem Land used the limited resources available to management using modern tools.

them to refine their ability to manage fire at a landscape It is difficult to overstate the impact of the WALFA scale, developing ways of emulating customary fire project on today's carbon market. As the landscape scale model upon which the government-approved Savanna Burning Methodology was based, WALFA Meanwhile, scientists developed methods to measure has provided a template for every current and future the extent of fires, and calculate the seasonal differences savanna burning fire management project across in greenhouse gas (GHG) emissions between early northern Australia.



to explore and define the relationship between customary burning and emission reductions; this early

saw ConocoPhillips support Landowners to restore fire management over more than 28,000 km² of west Natural Gas (DLNG) plant.

effective solution to securing long-term funding to support fire management and immediately allowed These discussions led to the development of a vision Traditional Landowners and Aboriginal rangers to of people again living on healthy country, and of fire get back out on country, initiating fire management programs that reconnected people to country and brought back strategic, cool early dry season burning

The origin of ALFA

"From a Western ecological perspective, fire management in Arnhem Land resourced through ALFA's engagement with the carbon industry, has successfully addressed the prevalence of hot, widespread and destructive wildfires in the landscape - a threat to the environmental assets of northern Australia recognised in both Aboriginal and Western science knowledge systems."¹

Following the introduction of carbon legislation in Currently, nine Aboriginal ranger groups consisting Australia in 2011, the five ranger groups partnered in of Traditional Owners and their families, undertake the WALFA project decided they wanted to transition the then voluntary WALFA project to an eligible offsets management that occurs across the five ALFA project, which would allow them to earn and sell ACCUs. project areas. Membership of ALFA is open to any Extensive Landowner consultations ensued, focusing on how to create an Aboriginal-owned company to represent them collectively in their engagement with collaboration between Traditional Owners and their the carbon market.

In 2013, WALFA Limited was established for this purpose, In developing ALFA, Traditional Owners were clear north-east Arnhem Land. Together, these projects cover a significant and contiguous area of almost 80,000 km² of Arnhem Land.

all operational aspects of the landscape scale fire Traditional Owner of land where an ALFA project operates - as such, ALFA is at once an alliance and a affiliated ranger groups.

and in 2015 the name of the company was changed in their directive that the company should be to ALFA (NT) Limited, to reflect its growth throughout not-for-profit, and that all revenue from the sale of ACCUs Arnhem Land, ALFA registered WALFA as an eligible must be reinvested back into the Aboriginal ranger offsets project in late 2014, and since then the company groups to provide local employment while preserving has grown to support Traditional Owners to register culture and the environment. ALFA continues to operate and operationalise projects in central, south-east and under this directive, operating with minimal overheads such that 95 per cent of all income generated is paid to the ranger groups for the purpose of supporting and improving fire management activities across the project areas.



thern Land Counci



Savanna Burning Methodology



A chopper ferries rangers from the fire line. Photo © Matthew Abbott.

change resulting from a change in fire management practices, and in Arnhem Land, the reintroduction of

All savanna fires emit greenhouse gases, in particular Net abatement is determined by measuring the methane and nitrous oxide. The Savanna Burning difference between methane and nitrous oxide Methodology uses strategic fire management to reduce emissions from a project's baseline period against the emission of methane and nitrous oxide from the each subsequent project year. The difference between burning of savannas, compared to the emissions from baseline and annual project emissions reflects the a baseline period. Each carbon credit unit generated under the Savanna customary burning. Importantly, projects only generate Burning Methodology represents one tonne of carbon credits if they are successful in avoiding carbon dioxide equivalent net abatement achieved emissions of methane and nitrous oxide compared to by undertaking planned fire management within the their baseline period. project area.

"95 per cent of all income generated is paid to the ranger groups for the purpose of supporting and improving fire management activities across the project areas."1

Australian Carbon Credit Units (ACCUs) Generation

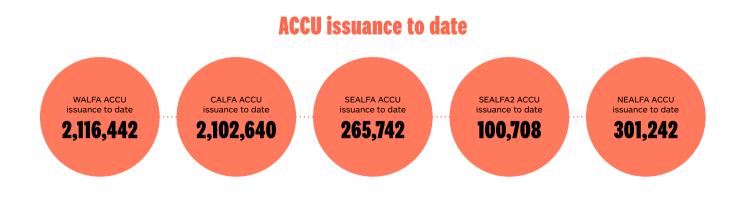
How does it work?



Warddeken ranger Zacharia Namarnyilk watches a cool fire trickle through savanna woodland on mother's country at Makkalarl. Photo © Matthew Abbott.

The Clean Energy Regulator issues Australian Carbon ALFA's five offsets projects generate carbon credits Credit Units (ACCUs) for greenhouse gas abatement through Federal Government legislation focused on activities undertaken as part of the Emissions Reduction Fund, a federal scheme that provides financial incentives to organisations and individuals to reduce their greenhouse gas emissions and improve their (CFI Regulations 2011) and the Carbon Credits (Carbon energy efficiency.

carbon farming. The issuance of ACCUs is governed by the Carbon Farming Initiative Act (CFI) 2011, the Carbon Credits (Carbon Farming Initiative) Regulations 2011 Farming Initiative) Rule 2015 (CFI Rule 2015).



The production of Australian Carbon Credit Units All five ALFA fire projects operate under the approved is highly regulated to ensure that emissions Savanna Fire Management method. This method was reductions are genuine, additional to business-as- one of the first to be approved and is considered to usual, can be counted towards Australia's emissions be one of the highest integrity methods. reduction targets, are measurable and verifiable, to become "business as usual". The application of planned,

evidence-based, account for project emissions and are An important feature of this method is that the eligible conservative - these are the principles of the Offsets activity - landscape scale fire management - is never able Integrity Standard. fire management at a landscape scale, which needs to There are several requirements that must be satisfied occur every year for the project to remain eligible, is before a project can be formally declared an 'eligible incredibly resource intensive. The funds derived from offsets project', and there are ongoing, annual the sale of ACCUs are required to finance the eligible requirements in undertaking an eligible offsets project. activity – fire management.

These requirements include:

- of project.
- The project must deliver abatement that is additional to what would occur in the absence of the project.
- The project must be undertaken in accordance with eligibility requirements.
- about the conduct of the project and the abatement achieved. Certain reports must be accompanied by a report prepared by a registered greenhouse gas and energy auditor.

Producing ACCUs

How is success measured?

Total amount of carbon abated by ALFA projects since company began



*Total for all projects.

1 tonne carbon dioxide equivalents (CO₂-e)

1 Australian Carbon Credit Unit (ACCU)

This is verified through examination of satellite fire scar - There must be an approved methodology for the type mapping which demonstrates that the adoption of the savanna fire management method has been the direct cause of recent positive changes in fire management across much of northern Australia.

the methodology and comply with other scheme. The savanna fire management method is built upon millennia of Indigenous Traditional knowledge and decades of - The project proponent must report to the Regulator peer-reviewed scientific research. The combination of these provides an ecologically appropriate, robust, measurable and verifiable method that delivers a permanent greenhouse gas reduction annually with no risk of reversal as well as other environmental, cultural, social and economic outcomes.

Every year ALFA generates ACCUs from the ALFA ACCUs are highly sought after on the voluntary five registered savanna burning project areas. market, which comprises a significant proportion A public record of these ACCUs is available online of ALFA's ACCUs sales annually. Voluntary buyers in the Emissions Reduction Fund Project Register are aware of the cultural, social and environmental cleanenergyregulator.gov.au

producers of carbon to sell their ACCUs. These communities. include selling ACCUs to the Australian Government through the Emissions Reduction Fund, selling ACCUs ALFA's partner groups have been abating GHG to companies with carbon compliance obligations emissions through fire projects for up to 15 years, under the safeguard mechanism and the voluntary making them some of the most experienced savanna market, where companies and organisations choose burners in the world. Each group documents their work to voluntarily purchase ACCUs to offset their activities in detail, with a thorough and independent carbon footprint.

benefits that are achieved through the operation of the fire projects, as well as the reinvestment of Many carbon markets operate in Australia for carbon income to other projects that support local

audit conducted annually.

Producing high integrity ACCUS



angers Josephine Austral and Kaitlyn John. The number of women involved in fire management across ALFA's project areas has increased significantly over the previous five years with many ranger groups achieving gender equity within their respective workforces. This is one of many factors defining the ACCUs produced by ALFA as high integrity. Photo © Renae Saxby.

Equally as important as environmental compliance is - Fire projects have inspired the transmission of the flow-on positive impacts of fire pro Traditional Owners in Arnhem Land, w abundantly evident across a range of enviro cultural and social co-benefits.

Environmental co-benefits

- Reinstating customary burning pattern landscapes has improved the overall ecolo cultural health of country.
- Protection of fire sensitive ecological con such as Anbinik (Allosyncarpia ternata) isolates, jungle patches and the federally Arnhem Plateau.
- Many endemic, culturally important threatened flora and fauna species req burning regimes to thrive.
- ALFA has inspired others to replicate o of business, leading to increased over GHG avoidance.
- Biodiversity monitoring data suggests th critically endangered small mammal po persist, there is a correlation with good fire mar

Cultural co-benefits

- Traditional Owners are supported to live on country, with ranger programs offering future for people on country.
- Participation in fire programs enhances identity through connecting Traditional Ow 'orphaned' clan estates.
- Traditional Owners are supported to make about and participate in the active manage their country.

jects for hich are onmental,	 knowledge and skills including making and carrying fire using bush tools, kangaroo fire drives and the language of fire behaviour. People are spending more quality time out bush, where they are able to access and harvest bush tucker not available in bigger towns.
s across ogical and	 Ranger groups now have the resources to run bushwalks, cultural camps and other events focused on intergenerational knowledge transfer.
nmunities rainforest declared	 Ranger groups are working closely with schools to teach young people the intricacies of customary fire knowledge and practice.
and/or	Social co-benefits
juire cool	 Millions of dollars are reinvested annually in remote communities through ranger wages.
ur model	- Ranger programs offer meaningful, highly sought-after
all global	roles in economically disadvantaged regions.
at where	 More women rangers are involved in fire operations every year.
pulations	 Regular income provides food security for families.
hagement.	 Ranger work is physically active.
	 Ranger programs support staff to access training and education.
and work	
a genuine	Additional to the benefits derived directly from the delivery of the fire projects, income created from ALFA's
s cultural	sale of ACCUs allows ranger groups to deliver other
ners with	community-driven projects.
decisions Jement of	Organisations and companies can contact ALFA directly if they are interested in purchasing high integrity ACCUs that support these outcomes.
2	7

ALFA's custom training program

After working closely with our partner groups over many years, ALFA identified the need to devote more effort to developing capacity and recognising the existing skills of Aboriginal rangers undertaking fire management within Arnhem Land.

to develop a model of training delivery that adapts Nationally Accredited Units of Competency to an Arnhem Land context. The aim is to increase the capacity of rangers to deliver best practice fire management across Arnhem Land. Funding was obtained from the Indigenous Land and Sea Corporation (ILSC) and the Reference Group. This small expert group is made up of Karrkad Kanjdji Trust (KKT) and in 2021, ALFA entered into a third-party delivery agreement with a local NT-based Registered Training Organisation (RTO), Train Safe NT.

ALFA's training project commenced this year and will run until 2023. It is being managed by Mark Desailly, who brings to the role four years' experience with ALFA as well as extensive experience delivering informal training - Operate aerial ignition equipment in an aircraft to ALFA's partner ranger groups over many years.

Initial consultations with partner ranger groups highlighted that the clear priority for all groups was to undertake accredited training in helicopter-based fire management operations.

safely around helicopters and the aerial incendiary in 2022. course was trialled with six different ranger groups.

Training involves hands-on instruction in the use, maintenance and safety features of the Raindance incendiary machine; theory of the principles of operation

In 2020, funding was secured for a three-year project and an operational flight under instruction which includes an in-flight emergency fire drill (students must also complete a further two operational flights of at least one hour to gain competency).

> Oversight of the project will be undertaken by a Training Traditional Owners, Aboriginal rangers and supported by an expert in cross-cultural adult education from Charles Darwin University.

> By the end of 2021, ALFA has four units of competency on scope with Train Safe NT.

These are:

- Work safely around aircraft course PUAFIR017.
- PUAFIR008.
- Prevent injury PUAFIR210.
- Respond to wildfire PUAFIR204.

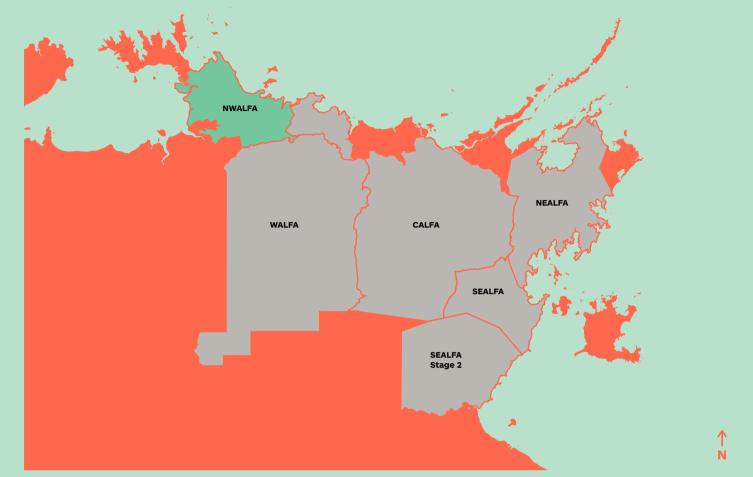
These units of competency relate directly to skills and knowledge rangers require in their prescribed burning and firefighting activities. ALFA will provide training in The delivery and method of assessment for the work the above units as early dry season burning commences

> We are fortunate in that through the funding of this project, we have the flexibility to mesh accredited training with normal ranger work activities and the time to ensure a focus on quality.



ALFA's Training Manager Mark Desailly works one-on-one with young Warddeken ranger Recain Nabarlambarl to equip her with the skills and confidence to operate a Raindance incendiary machine as well as with more experienced rangers in a refresher on helicopter safety. Photos courtesy of Warddeken Land Management.

North West Arnhem Land (NWALFA) – A New Fire Project to commence in 2022







Consultant Jake Weigl speaks with Traditional Owners of the NWALFA project area about what a fire project will mean for them and their affiliate ranger groups. Photos courtesy of ALFA (NT) Limited.

For many years, Traditional Owners from north-western Arnhem Land have watched the emergence of fire projects in neighbouring regions, and expressed their interest in establishing and registering a fire project all the way to the coast.

During this time, several Traditional Owners from the project area were supported by ALFA to attend pre- and post-season fire meetings, allowing them to listen to ranger groups present, observe planning processes, and discuss the fire project with Aboriginal family members from other groups.

In 2020, a request was formally made to ALFA from the Northern Land Council (NLC) and Demed Aboriginal Corporation to undertake information sharing, and West Arnhem Land (NWALFA) Fire Project.

The project area includes country managed alongside and on behalf of Traditional Owners by the Adjumarllarl, Garngi and Mardbalk ranger groups.



In 2021, ALFA undertook pre-consultation work with individual Traditional Owners, using a large pictorial information booklet to support conversations about the following:

- Explain the project in detail.
- Explain the setup of ALFA and its involvement in the support of fire projects.
- Talk through fire history maps to look at current fire management regimes.
- Gather information related to Traditional Owners' aspirations for fire management on their country.
- Determine whether there is interest in their clan estates being included within a new fire project area and if so, take initial instructions from Traditional Owners on how they would like to be involved with the project.

across 25 clan estates in the region north of Gunbalanya Pre-consultation indicated that overwhelmingly, Traditional Owners were in favour of registering and operating the NWALFA (North West Arnhem Land Fire Abatement) project in time for the 2022 fire season. Traditional Owners also worked through maps of country and gave initial instructions in regards to how they would like to be involved in the fire management project in 2022.

> Following the favourable pre-consultation results, the NLC completed the consultations required to enter into a Land Use Agreement with Traditional Owners.

pre-consultations about formally establishing a North ALFA looks forward to the finalisation of the NWALFA Land Use Agreement in 2022 and the subsequent registration of the new project with the Clean Energy Regulator. Preparations are already underway for fire management to commence in the early dry season in 2022.

Summary of ALFA project areas – overall key statistics

"From a Western ecological perspective, fire management in Arnhem Land resourced through ALFA's engagement with the carbon industry, has successfully addressed the prevalence of hot, widespread and destructive wildfires in the landscape – a threat to the environmental assets of northern Australia recognised in both Aboriginal and Western science knowledge systems."¹

1 tonne carbon dioxide equivalents (CO₂-e) = 1 Australian Carbon Credit Unit (ACCU)

WALFA

Ranger groups involved Bawinanga Rangers Mimal Rangers Jawoyn Rangers Warddeken Rangers Adjumarllarl Rangers

Project area

28,000 km²

Running for:

11 years

CALFA

Ranger groups involved
Bawinanga Rangers

Mimal Rangers ASRAC Rangers

Project area
26,000 km²

Running for: **11 years**

> ACCU issuance to date **2,102,640**

SEALFA (>1000mm)

Ranger groups involved Yugul Mangi Rangers Numbulwar Rangers

Project area
5,000 km²

Running for:

11 years

ACCU issuance to date

265,742

ACCU issuance

to date

2,116,442





Ranger groups involved

Yugul Mangi Rangers Numbulwar Rangers Ranger groups involved **Yirralka Rangers**

Project area **10,000 km²**

Project area **11,000 km²**

Running for:



Running for:



ACCU issuance to date



ACCU issuance to date



Summary of ALFA project areas – 2021 management statistics

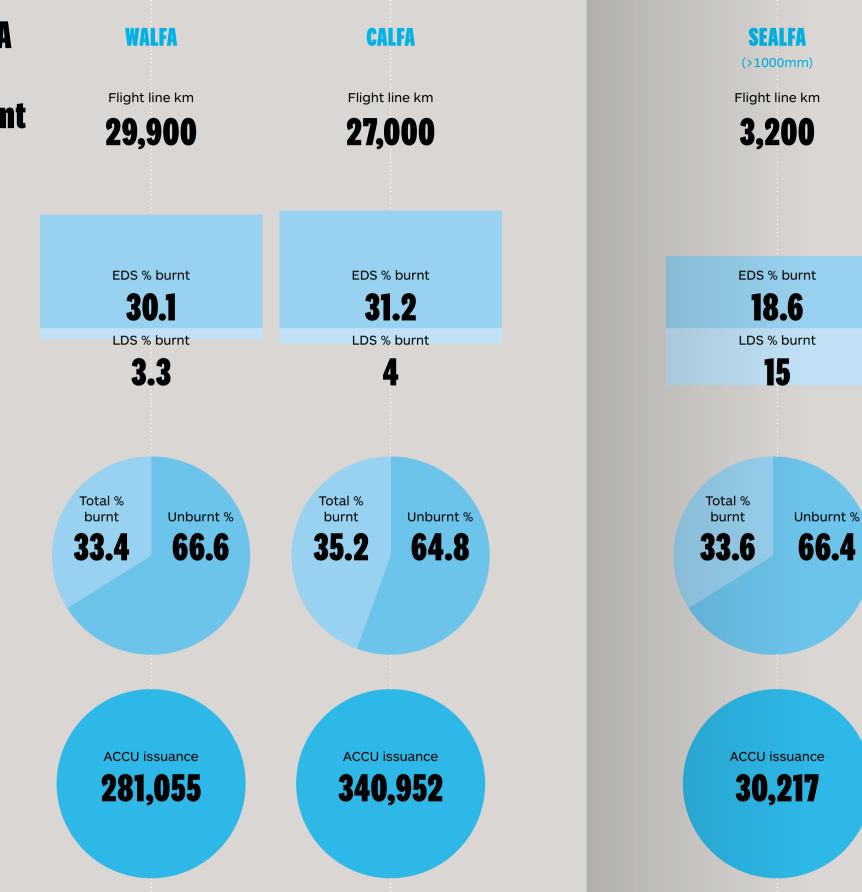
*ALFA partner groups combined totals.

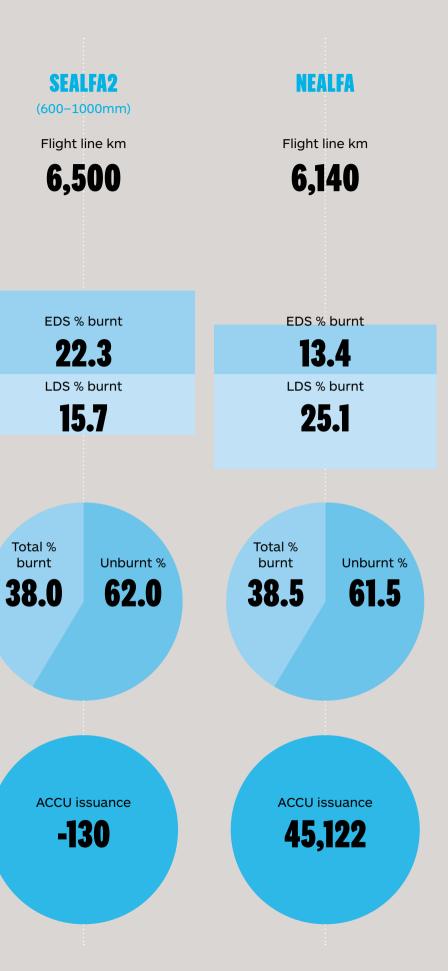
Flight line kilometres represent the total distance flown by each project during aerial prescribed burning operations.

EDS % is the per cent of the project area burnt in the early dry season (January to July). LDS % is the per cent burnt in the late dry season (August to December).

Unburnt % represents the total area of each project unburnt by early or late fire. Research suggests maintaining long unburnt areas of country is a key requirement to protect threatened fauna, and so undertaking planned burning early in the EDS and active wildfire prevention in the LDS to maintain large tracts of unburnt country is critically important.

1 tonne carbon dioxide equivalents (CO₂-e) = 1 Australian Carbon Credit Unit (ACCU)





Fire Management Activities Summary 2021

Planning and Consultation On ground burning Aerial burning Wildfire suppression

Mimal ranger Ross Tukumba. Photo © Renae Saxby.



Before the fire season begins, rangers talk with Traditional Owners of clan estates within their respective project areas about where and how they want early burning to happen on their country and how they might like to be involved. These consultations set the framework of each ranger group's annual burning plan.

PLANNING AND CONSULTATION





ALFA (NT) held a pre-fire season meeting at Additionally, rangers workshopped their collective Maningrida on the 7th and 8th of April 2021. There needs and aspirations around training, to assist were over 70 participants in the meeting, consisting of ALFA in further developing and customising the representatives from all ranger groups involved in training program. ALFA (NT) fire projects as well as other stakeholders. The rangers discussed their management plan with Each ranger group also undertakes internal Landowner neighbouring ranger groups and presented their proposed burning activities for the year.

Traditional Landowners in fire management focusing on:

- Why is Traditional Owner involvement and oversight would like to be involved in any of the upcoming fire important?
- What are ranger groups already doing to engage Traditional Owners?
- How can we improve Traditional Landowner involvement and oversight?

consultations, ensuring that the right people for each clan estate within their respective operational areas give consent for burning work to occur, are able to Rangers workshopped best practice engagement of nominate who they would like to undertake aerial prescribed burning (APB), and advises whether they season activities. COVID-19 restrictions also hindered Landowner consultations for most groups, however, in all cases ranger groups used innovative and creative approaches to ensure sufficient approval and permission was obtained prior to prescribed burning commencing.



Above: Bawinanga rangers discuss fire management plans for the year. Photo © David Hancock. Below: The first opportunity for project partners to come together in person in 2021 at the ALFA pre-season meeting in Maningrida. Photo courtesy of ALFA (NT) Limited.



EARLY DRY SEASON BURNING – ON GROUND

KILOMETRES ON GROUND BURNII



as people moved across country, burning as they went. On ground burning remains a core component of the fire management activities infrastructure assets.

Opposite top left: Homeland residents play an integral role in early burning due to their constant presence on country. Opposite below left: Warddeken rangers protect environmental and cultural assets through installing and back burning from firebreaks. Photos courtesy of Warddeken Land Management. Below right: Adjumarllarl rangers perform asset protection burns around solar arrays and other infrastructure at homelands across their project area. Photo courtesy of ALFA (NT) Limited.

On ground burning is undertaken by rangers and Traditional Owners across the project areas, particularly along roadsides and hunting tracks, infrastructure and around important cultural and environmental sites. Rangers perform ground burning from a vehicle (4WD or guad bike) or by foot, using a drip torch or matches as the ignition source.

Before aerial burning operations begin, rangers first secure infrastructure and assets across their respective management areas. This involves installing firebreaks and implementing protective burns at cultural sites including rock art galleries and sacred sites, as well as securing infrastructure including houses, buildings and water and energy assets at homeland communities.

Many ranger groups run events such as cultural camps and bushwalks, involving young people and elders, which allows groups of Landowners to conduct fine scale burning across large tracts of country that may not otherwise be visited. For many ALFA partners, these activities are of great importance, as they allow a new generation of Traditional Owners to burn country as the old people did.

Data for ground burning activities are recorded by ranger groups using GPS, CyberTracker and work diaries.

Historically, landscape scale burning was achieved undertaken by ranger groups, who work throughout the early dry season to establish fine scale and targeted firebreaks. On ground burning is often performed to protect cultural, environmental and



Each year, rangers take to the skies to deliver incendiary burning across vast tracts of remote country – a synthesis of customary and contemporary ecological management practices.

> Aerial prescribed burning (APB), delivered from Robinson 44 helicopters and utilising incendiary delivery machines, allows rangers to access remote regions of their project areas and cover vast tracts of otherwise inaccessible country. APB creates a mosaic of burnt country throughout project areas and also secures the boundaries between neighbouring groups.

> APB flight routes are determined by many factors, including topography, previous years' fire scars, sacred sites, local knowledge and experience, real-time observation of grass and conditions, and type of soil and vegetation. Rangers utilise the existing features of the landscape, such as rivers and roads, to create landscape scale firebreaks comprised of burned and natural breaks.

> APB by its very nature is a thoroughly modern fire management tool, however, rangers and Traditional Owners are readily able to translate knowledge of country and fire behaviour to an aerial approach. Importantly, through adjustments to the delivery rate of incendiaries, APB can be tailored to deliver very specific burning results taking into account weather and fuel conditions for different environments in the landscape. Rangers from all partner groups are now highly experienced in APB operations. As a result of this, APB operations across ALFA project areas are increasingly being undertaken solely by senior rangers and Traditional Owners. ALFA's custom training will further support this trend.

> Ranger groups record aerial burning activities using either a combination of GPS and work diaries or CyberTracker to document flight lines.



Warddeken Rangers and Landowners take off in an R44 helicopter to perform strategic APB across the Warddeken IPA. Photo © Matthew Abbott.

Mimal female rangers prepare to deliver strategic aerial burning. Photo © Renae Saxby.



In the late dry season, rangers' focus shifts to the prevention of wildfires, which burn hot and uncontrolled as weather conditions become warmer and drier. This involves promoting awareness of dangerous fire conditions amongst community members, as well as intensive wildfire suppression campaigns to protect priority areas of country.

> "We define success of the firefighting based on the plan and outcome of the plan. For example, sometimes we can put out the entire wildfire and that is a success. Sometimes, we stitch upgaps and backburn and leave the fire and that is a success." — Jawoyn Rangers





Increasingly, wildfire suppression has become a major component of annual fire management programs. Most firefighting is undertaken 'dry', meaning rangers use techniques of controlling fires that do not involve water, such as installing mineral earth breaks that act as a barrier to pull up fires by removing combustible fuel.

that act as a barrier to pull up fires by removing combustible fuel. Helicopters are often required to ferry teams of firefighters in to access remote fire lines. Rangers

A team of Warddeken rangers works a fire line with backpack leaf blowers, pushing the flames and embers back in on themselves in an attempt to control the blaze. Photo courtesy of Warddeken Land Management.

United Nations Sustainable Development Goals

The United Nations (UN) Sustainable Development Goals are a global call to action to protect the planet, end poverty and improve the lives and prospects of everyone, everywhere. The 17 Goals were adopted by all UN Member States in 2015, as part of the 2030 Agenda for Sustainable Development, which sets out a 15-year plan to achieve the Goals.

sdgs.un.org/goals



of the UN Sustainable Development Goals through However, equally importantly, ranger programs also the delivery of their land and cultural heritage generate a host of cultural, economic and social management programs. With income created from co-benefits for Traditional Owners and their families. the sale of ACCUs, ranger groups are able to deliver their respective fire management programs, as well ALFA's partners are addressing the following Sustainable as other community-led projects leading to positive Development Goals through the annual delivery of their environmental outcomes through reduced carbon fire management programs.

ALFA's partners are proactively addressing a number emissions and improved ecological health of country.





Goal 1. No Poverty

Millions of dollars annually are reinvested in communities through wages. **Ranger programs provide**

employment opportunities in remote communities.



Goal 2. Zero Hunger

Ranger groups operate food security programs such as tucker runs.

Regular income allows families to buy food.

Support people living on country and accessing bush foods.

48



Goal 3. Good Health and Wellbeing

Ranger work is active and promotes physical activity.

People are able to harvest and access bush tucker through ranger programs.

> Supported to live and work on their country.

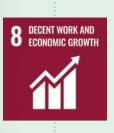
Connection to cultural identity.



Goal 5. Gender Equality

All of ALFA's partners have women's ranger programs.

More women rangers are getting involved in fire operations every year.



Goal 8. Decent Work and Economic Growth

Ranger programs offer meaningful, highly sought-after roles in economically disadvantaged regions.

Ranger programs support staff to access training and education.



Goal 11. Sustainable Cities and Communities

Ranger groups provide essential services in remote communities. **Ranger groups offer the only**

employment in many homeland communities.



Goal 13. Climate Action

The work of ALFA partners leads to significant GHG emission reduction every year.

ALFA has led others to replicate our model of business, leading to more GHG avoidance.



Goal 15. Life on Land

Ranger work respects the choice of Traditional Owners to remain on country.

Ranger groups are providing a future for people on country.

ALFA is partnered with nine community and homeland-based Aboriginal ranger groups, supporting them to collectively deliver five fire management projects across 80,000 km² of Arnhem Land.

The fire project areas include ranger groups managing four declared Indigenous Protected Areas (IPAs) – the Djelk, Warddeken, South East Arnhem Land and Laynhapuy IPAs, as well as two **IPAs currently under consultation – the Mimal** and ASRAC IPAs.

The following section of the report is an opportunity for each of our partner groups to share highlights from their 2021 burning season, and demonstrate the exceptionally high quality at which they deliver their work.



Adjumarllarl Rangers -Meaningful collaboration



The Adjumarllarl rangers were one of the Northern Owners to share knowledge of fire management to Territory's first Aboriginal ranger programs, and have preserve and protect these sacred areas. been working out of Gunbalanya in western Arnhem Land for over 30 years, Adjumarllarl rangers manage This year Adjumarllarl commenced a Community approximately 10,000 km² including floodplains, savanna woodland and sandstone escarpment.

Operating at the gateway to Arnhem Land, Adjumarllarl render savanna burning projects ineligible – does not Traditional Owners to continue caring for their land. take hold in Arnhem Land.

consisted of four full-time rangers and a pool of casual following assets within the project area: employees, representing Traditional Owners from across the operational area. The team dedicated more than 2,000 hours to executing an overall fire - Cultural/heritage sites (where access is management plan.

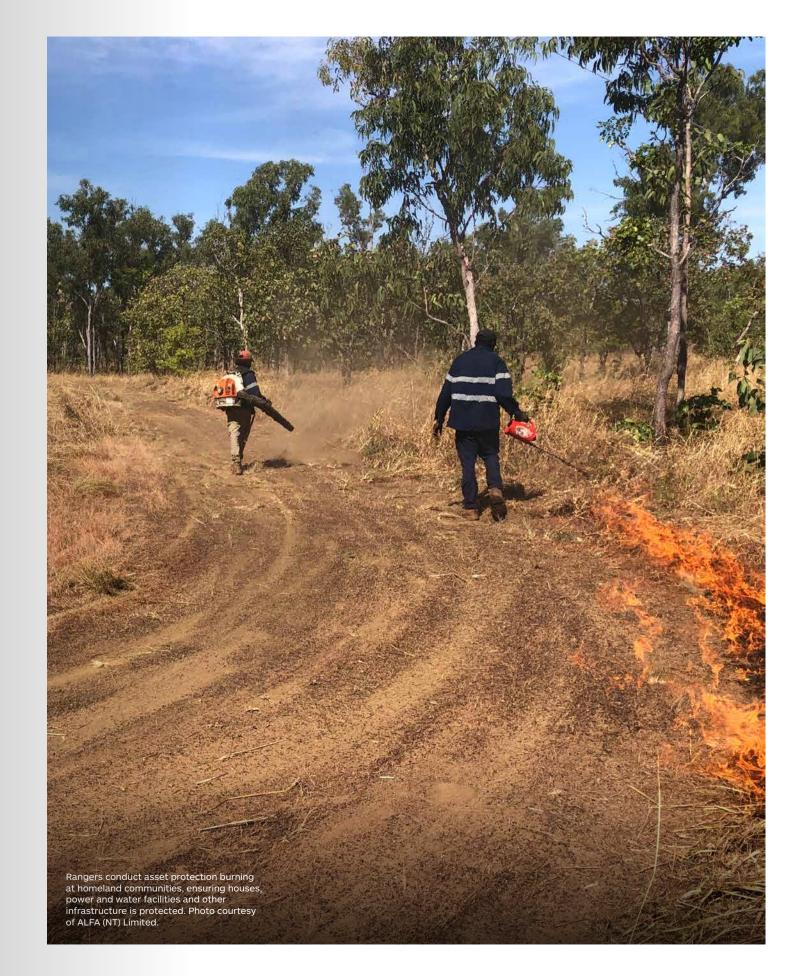
Adjumarllarl commenced the dry season by consulting Traditional Owners and representatives With extreme weather conditions and COVID-19 from the homelands within the prescribed fire restrictions in place during the year, the timeframe management area, allowing Landowners to contribute for safe fire management burning was significantly invaluable knowledge of their country and the reduced, however, rangers were still able to dig deep current climate, as well as providing their informed and complete the project for another successful year. consent for all fire plans and activities on their land. During the consultation process, Traditional Owners also identified sacred sites with restricted access. Adjumarilari acknowledges and respects the directions received, and works with Traditional neighbouring ranger groups.

Development Program (CDP) through a sub-contractor agreement with the Arnhem Land Progress Aboriginal Corporation (ALPA). This resulted in job seekers carrying out fire breaking activities safely. Rangers provided is on the frontline of managing invasive weed species Traditional Owners and job seekers with matches and and has worked determinedly over the years to training on how to burn safely in areas where rangers ensure that highly flammable gamba grass - which were unable to gain access. This collaboration enabled burns three times as hot as native grasses and can the ongoing protection of sacred sites, and empowered

In addition to installing firebreaks on homelands, Throughout 2021, the Adjumarilari ranger team rangers also completed back burning around the

- Access tracks and roads.
- Creeks and rivers.
- allowed by Traditional Owners).
- Escarpment edges.

The Adjumarllarl rangers look forward to another year of active fire management in 2022 and to continuing the close collaboration with Traditional Owners. ALFA and



Arafura Swamp Rangers -Culturally-driven burning



The Arafura Swamp Rangers Aboriginal Corporation of that, is the engagement of Traditional Owners in APB (ASRAC) comprises seven ranger groups that work activities either as a navigator or as a Raindance with Traditional Owners to keep Indigenous knowledge machine operator. strong and to make sure it is being used to look after country. Together these ranger groups look after An important part of ASRAC's annual right way fire the Gurruwiling (Arafura Swamp), its catchment management is to create opportunities for the transfer and adjacent sea country: Dhupuwamirri rangers, Donydji rangers, Mirrngandja rangers, Malnyanganark 2021, the rangers delivered a number of such activities. Bukgurl-na rangers. Balmawirrev Dhipirri rangers. Gupulul Marayuwu rangers, Gurruwiling rangers and Wanga Djakamirr rangers. The Arafura Swamp rangers ASRAC rangers talked to students about the importance are currently consulting on a proposed new IPA covering 14,000 km² which includes the Gurruwiling (Arafura Swamp) – a vast wetland surrounded by a in burning in the Dhabla area and put what they learned catchment extending from Castlereagh Bay to the into practice. upper reaches of the Goyder and Glyde Rivers.

Prior to prescribed burning, ASRAC rangers carry out asset protection burning at 21 outstations around local power and water infrastructure, transport Dhipirri outstation over a week in October. Traditional infrastructure and at sacred sites. During outstation firebreaks, Landowners, Djungayi (mother's country relationship) and family are engaged to help.

ground burning, mostly on foot. Ground burning was also conducted with Landowners and family groups during camps in Malnyanganark, Djilpin and Donydji areas. The location of APB runs was decided in consultation with Landowners and Djungayi by going through proposed lines on computer maps, and then jointly adjusting. ASRAC's focus on right way fire, and one of the key aspects fire management practice.

of customary knowledge of fire and fire practices. In Ramingining School students were involved in on ground burning through the Learning on Country (LoC) program. of right way fire and the theory behind culturally-driven burning. Students then had the opportunity to partake

ASRAC supported a Balparra Camp at Malnyanganark outstation and at Djilpin, where family gathered to share knowledge on fire. Another Balparra Camp was held at Owners, elders and the community got together on country to discuss the effect of bushfires on their land. The discussion focused on whether people felt fire management was improving or not, and if controlled Ranger groups carried out 6.210 kilometres of on burning was leading to the desired objectives of plentiful bush tucker, habitat for animals, knowledge sharing and cultural obligation.

> The outcome of these important conversations led to the development of a 'Right Way Fire' poster, which visually represents the elements of culturally correct

Above: The poster created by ASRAC rangers and Landowners to visually represent elements of a culturally-driven fire program.

Below: ASRAC rangers completed more than six thousand kilometres of on ground burning, traversing long distances in vehicles and on foot, emulating the way old people burned. Photos courtesy of ASRAC.













Bawinanga Rangers -Strong relationships



When firefighting in rugged terrain rangers must carry supplies with them, including chainsaws and fuel, which allows them to fell trees threatening to breach hard-won firebreaks. Photo courtesy of ALEA (NT) Limited





Bawinanga rangers are pioneers of Australia's requested collaborative plans be made to ensure Indigenous land management movement. Formed by rangers involved the right people in burning operations. Traditional Owners in the early 1990s in response to Many Traditional Owners and Djungkay, took advantage growing environmental concerns such as feral animals, of the opportunity to use a helicopter to inspect invasive weeds and wildfire, for 30 years Bawinanga and burn country in ways that are not possible from rangers have worked to keep their land and sea the ground. country in western Arnhem Land healthy. Rangers are

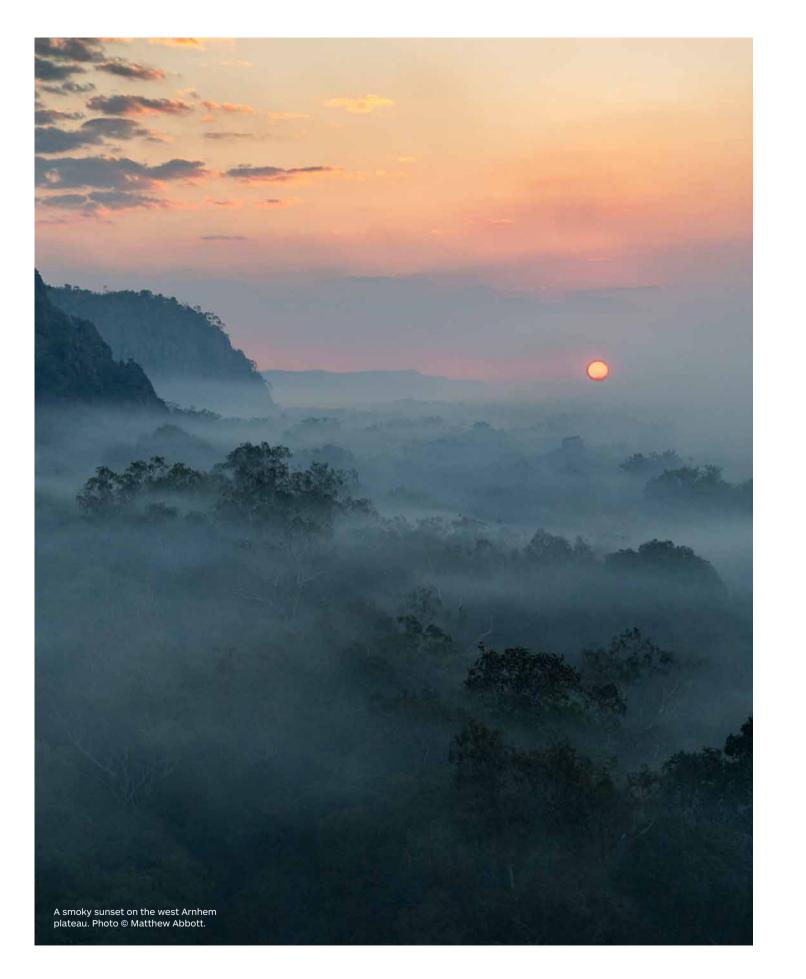
based in the community of Maningrida and service an In the late fire season, Bawinanga rangers responded to area of over 10,000 km², which includes more than 30 40 wildfires within the project area, as well as assisted family-based outstation communities. Warddeken rangers in putting out fires in the shared boundary of the Warddeken and Dielk IPAs. ALFA fire Bawinanga rangers worked in small groups to engage officer Steph Rouse also provided valued support and consult key Traditional Owners and Djungkay in wildfire responses. Working collaboratively with - people who speak for each outstation in Bawinanga's partners is an opportunity to strengthen both groups' area of operations. Rangers utilised a Traditional Owner fire response capacity. Delegation List to guide these consultations.

In preparation for the 2021 fire season, rangers commenced asset protection burning, including creating firebreaks at over 36 outstations and other third-party Community College's Learning on Country program infrastructure such as Telstra communication towers and Bawinanga interns to build skills and knowledge and the Arnhem Land Barra Lodge. When ground burning started in late April, rangers provided wind and

waterproof match packages to Traditional Owners to In 2022, Bawinanga rangers look forward to working with burn and protect their sacred areas. Landowners and Djungkay from across the Djelk IPA to build on the success of this year's fire management, Aerial prescribed burning was informed by the feedback as well as strengthening existing relationships with and wishes of Traditional Owners and Djungkay, who partners and neighbours.

Left: Rangers inspect a rock art gallery they have protected through their firefighting efforts. Right: As in previous years, Bawinanga and Warddeken rangers stepped in to assist one another, working collaboratively on a number of occasions to suppress wildfires in both project areas Photos courtesy of ALFA (NT) Limited.

In continuing Bawinanga's commitment to supporting the development of emerging generations as fire managers, rangers worked closely with Maningrida and undertake practical fire management activities.



Jawoyn Rangers -New opportunities



Jawoyn rangers have been caring for country by Creek, Mangarrayi and Wagiman rangers. Jawoyn incorporating customary values and culture with completed all but two of the prescribed blocks in the the latest in scientific practice since the late 1990s. contract, and this new program of work provided both Operating out of Jawoyn Association headquarters an additional funding source as well as an opportunity in Katherine, Jawoyn rangers manage 16,000 km² of for Jawoyn rangers to hone their fire management skills country including part of the west Arnhem Land plateau in different country and contexts. - stone and gorge country that contains one the world's largest and most significant bodies of rock art.

All the money generated through Jawoyn's fire Further training was provided by Mark Desailly in management program is reinvested in activities that operating Raindance machines, as well as fire response support important social, cultural and environmental training at Nitmiluk National Park as part of ALFA's outcomes, for example managing country, offering increased jobs and training for Landowners and Evans of the Darwin Centre for Bushfire Research also custodians, and connecting people back to country. delivered training focused on using GIS and the North The reduction in late dry season wildfire also helps Australian Fire Information (NAFI) website to enhance protect significant fire sensitive ecosystems and the fire management. many threatened plants and animal species in the Jawoyn region. Rangers and Landowners report Jawoyn rangers worked with neighbours including seeing important birds, mammals and reptiles returning to country since the inception of the fire burning around the Biddlecomb Tourist Camp along management program.

This year, Jawoyn rangers were able to utilise their skill Nipbarnjarn Waterfalls Camp. and experience as fire managers to take on a contract to deliver prescribed burning on Vacant Crown Lands (VCL) Aerial burning with stakeholders and neighbours from March through to August. The VCL contract saw included Nitmiluk National Park, Sleisbeck and rangers travel across the NT to Mataranka, Borroloola, Snowdrop in Kakadu National Park, the border along Timber Creek. Pine Creek and Katherine township. Conways Station, the top of Eva Valley (Manyallaluk), where they worked alongside Waanyi Garawa, Timber and around Edith Falls (Leliyn).



As part of the VCL burning project, certified training was also incorporated into real-world applied work activities. new training program. Mark Desailly of ALFA and Jay

Nitmiluk National Park rangers to perform on ground the Jatbula Trail, around Jodetluk (Gorge Camp) with Bushfires NT. around Safari Camp (Waterhouse) and at

Mimal Rangers - A greater role for women



The Mimal Land Management operational area sits at in the soil and plants keeping early burns small and cool, the geographic centre of Arnhem Land. Mimal country and less windy conditions in the late dry season keeping is made up of many different ecosystems - from wildfires more manageable. The more favourable grassy plains, rock country, woodlands and forest to conditions were enhanced by concentrated strategic freshwater country. The main communities and homelands in the area include Bulman, Weemol and a dedicated crew of rangers. Barrapunta (Emu Springs). Mimal is currently being supported by the Federal Government to establish a Women rangers took on a greater role in planning and new IPA that will cover over 18,000 km² in south-central Arnhem Land.

(NLC) for many years, however, Traditional Owners opportunities to engage with Landowners and share expressed a desire to create their own company, stories about ranger work. operated under local Indigenous management. Mimal's journey to independence is inherently linked Mimal had a busy year with fire suppression, to their involvement in the WALFA project, as it allowed responding to 20 wildfires using a helicopter, and a Traditional Owners to use income generated through further five wildfires using only vehicles. Fires from the fire project to fund a separate incorporation and mid-October through to December were mostly caused autonomy. In October 2017, Mimal Land Management by lightning strikes. A helicopter and pilot were based celebrated a new chapter as a group with control over its own land, working toward a clear vision for Mimal allowed rangers to respond very quickly to fires. people, country and culture.

The weather conditions in the 2021 fire season were not as intense as in previous years, with increased moisture relatively quickly.

planning efforts and responding guickly to wildfires with

consultations this year and were able to talk with 32 senior Landowners from Bulman, Weemol, Beswick, Barunga and Katherine. In addition, Mimal's ongoing Mimal was administered by the Northern Land Council IPA development meant that there were far more

> at the Mimal office during the late dry season, which Although Mimal responded to more fires than usual this year, the combination of responding early and light winds allowed the rangers to get them under control



Above: Mimal rangers don backpack leaf blowers, ready to tackle a wildfire. Photo © Renae Saxby. Below: Mimal rangers use drip torches to conduct roadside burning. Photo courtesy of Mimal Land Management.

Yugul Mangi Rangers and Numbulwar Numburindi **Rangers (SEALFA)** -Strategic early burning







Above: Rangers and coordinators discuss helicopter safety in preparation for aerial burning Opposite left: Yugul Mangi ranger Jana Daniels uses a backpack leaf blower during an asset protection burn at an outstation. Photos courtesy of Northern Land Council

The South East Arnhem Land (SEAL) IPA is jointly protect infrastructure from fire damage. On ground managed by the Yugul Mangi and Numbulwar burning was undertaken on foot as well as from vehicles Numburindi rangers who are based at Ngukurr and along roads by the rangers. Numbulwar respectively and administered by the Northern Land Council (NLC). The rangers work The 2020/2021 wet season was above average, which on behalf of Traditional Owners of the Ritharrngu, Rembarrnga, Ngandi, Ngalakgan, Warndarrang, Yugul and Nunggubuyu peoples whose country is situated in was used to create a mosaic of burnt country throughout south-east Arnhem Land.

The SEAL IPA covers an area of 18,199 km² on the burning was undertaken by both ranger groups over western edge of the Gulf of Carpentaria in the Northern 16 days from April through to August, using an R44 Territory. With a history of strong local leadership within both groups, the rangers have thrived, remaining focused on the vision of their elders and founders. Fire boundary over the Urapunga Aboriginal Land Trust and management is a major focus of the Yugul Mangi and then progressed towards the east into Arnhem Land. Numbulwar Numburindi rangers' work.

Rangers implemented an extensive early dry season for the flight lines. Approximately 73 hours of flying burning program from April to August. This included on ground burning by foot and roadside, track burning by vehicle and aerial prescribed burning. Twenty-three staff were employed to undertake fire-related work activities in 2021. This included full-time, part-time and casual staff. dry season, however, due to operational restrictions.

A huge effort was put into securing assets prior to the Fires were monitored using the North Australia and commencement of aerial burning. Rangers ensured Rangelands Fire Information website. firebreaks were installed and protective burning was undertaken around 22 outstation communities to Students from Ngukurr and Numbulwar Schools protect infrastructure. Back burning around these participated in early dry season burning activities with outstations was undertaken prior to aerial burning to the rangers as part of the Learning on Country program.

meant that APB began a little later than in previous years, and pushed the end of burning into August. APB the project area and to secure the boundaries of the SEALFA and SEALFA2 project areas. Aerial prescribed (Robinson) helicopter and R2 Raindance Machine. Burning commenced along the western SEAL IPA

The rangers used a handheld GPS to record their tracks time was used to undertake aerial prescribed burning. covering over 9.518 kilometres of flying tracks.

There were numerous wildfires in the SEAL IPA in the late the rangers did not undertake any firefighting in 2021.

Warddeken Rangers -Protecting ancient ecosystems



"Anbinik is the tree from the very beginning." - Mary Naborlhborlh, Warddeken Professor (1932 - 2012)

to assist Nawarddeken Traditional Owners in the the kuwarddewardde (Arnhem plateau). Warddeken protection and management of their country in western rangers utilise customary fire management techniques Arnhem Land. The Warddeken IPA was declared in to protect these culturally and ecologically important 2009 and covers approximately 14,000 km², including trees and ecosystems. seven outstation communities and a range of important habitats supporting numerous species of flora and Work involves the maintenance of firebreaks around fauna, many of which are rare and endemic to the entire stands of rainforest, and conducting cool Arnhem Land escarpment region.

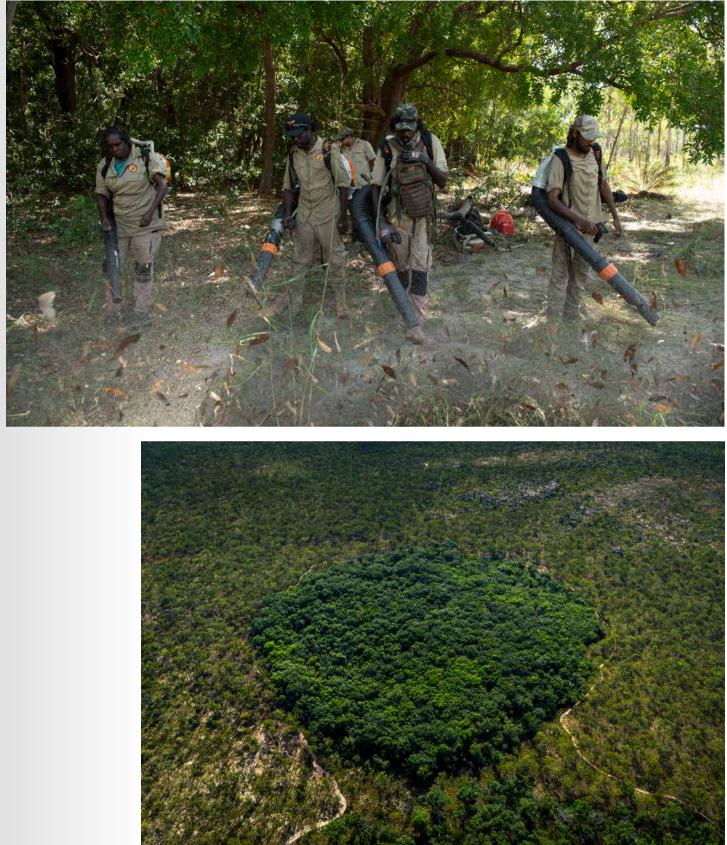
and Kabulwarnamyo homelands, offering the only to protecting these ancient, fire sensitive trees ongoing employment in these extremely remote and ecosystems. communities. Warddeken consistently delivers an ambitious annual fire management program, generating Old people maintained these patches through positive ecological, social and cultural outcomes for Landowners and their communities. This includes widespread asset protection burning for important rock Anbinik isolate forests. After ten years of delivering art complexes, as well as for ancient, endemic Anbinik the Anbinik Protection Program, Warddeken is seeing (Allosyncarpia ternata) rainforests.

their contemporary ecological status as well as their outcomes, with senior rangers, cultural leaders cultural significance. Old people actively managed Anbinik using fire, and valued the shade, amenity and becoming knowledgeable about Anbinik and how to shelter they offered. Anbinik are fire sensitive and manage it using customary techniques.

Warddeken Land Management was formed in 2007 now survive only in gorges and relictual forests across

burns in the late afternoon or evening. Warddeken's Anbinik Program has been running for a decade Rangers work from bases at Mamadawerre, Manmovi now - the only such program in Australia dedicated

careful and deliberate burning - a practice now reinstated by rangers at fifteen of the most at-risk positive ecological outcomes in terms of forest regeneration and canopy cover. Just as importantly, Anbinik are important to Warddeken Landowners for the program has generated strong cultural learning and elders reporting that younger generations are





Above: Warddeken rangers use leaf blowers to reinforce a mineral earth firebreak surrounding the entire Anbinik rainforest. Photo © Matthew Abbott Below: An aerial image shows the lengths to which Warddeken rangers have gone to protect entire stands of Anbinik rainforest. Photo © Matthew Abbott

Yirralka Rangers -Reconnecting with the country



Yirralka rangers during on ground early burning operations Photo courtesy of Yirralka





The Yirralka rangers represent the Yolngu Traditional and stories, including talks about the joint development Owners of north-east Arnhem Land and were of a seasonal fire calendar. During the week, miyalk established in 2003. Yirralka rangers manage the rangers participated in training focused on using and operating drip torches and leaf blowers and completed land and sea in the Laynhapuy Indigenous Protected Area, which extends from the Gove Peninsula to collaborative burns around camp the river to put new Blue Mud Bay and covers over 11.000 km² of land skills into practice. and 480 kilometres of coastline. For residents of the 14 homeland communities within the Laynhapuy IPA, A highlight of this year's burning program was facilitating a trip for four rangers to Woodah Island in Blue Mud Bay Yirralka rangers provide sustained opportunities for meaningful employment, and ranger positions are to conduct APB, inspect for feral animals, and take time highly sought after. The Yirralka rangers currently to visit and reconnect with the country. Some of the employ 50 permanent Yolngu staff who are based rangers had not visited the Island for many years, and across all 14 homelands. this work provided a rare and meaningful experience for all involved.

Over the previous year, Yirralka has continued to focus on developing the capacity of rangers to deliver across all elements of the fire management program. Funding from the sale of ACCUs has allowed Yirralka to better resource the ranger program to implement the annual suite of fire management activities. New vehicles in the fleet allow more rangers to travel out on country and access more areas to burn, improving the scope The activity involved 30 students, along with rangers, of fine scale ground burning efforts throughout the local elders and school staff. Intergeneration transfer Laynhapuy IPA.

The miyalk (women) rangers took part in a women's fire supporting this transfer by leading camps and activities camp at Nimirrli (Blythe River Crossing) in July. Hosted by the Mimal rangers, it was a great opportunity to get together and share and exchange valuable knowledge Gapuwiyak School and Baniyala Garranali School.

Left: A smoky sunset in open savanna woodland in the Yirralka IPA Right: A major component of Yirralka's on ground burning is installing breaks along the roads and bush tracks that criss-cross their management area. Photos courtesy of Yirralka

In the 2021 late dry season, rangers and students joined together for a Learning on Country excursion to Nvinvikav Homeland, to perform a work cultural burning activity. This involved burning the cured grass on a section of dry floodplain, before walking across the newly burned country to check holes for bush foods. of knowledge is a primary goal of the Learning on Country Program, and Yirralka Rangers is committed to through a formalised Learning on Country Memoranda of Understanding with Laynhapuy Homelands School,

Financial Statements For the Year Ended 30 June 2021

Statement of Profit or Loss and Other Comprehensive Income

	2021 \$	2020 \$
Revenue	10,091,532	5,001,834
Other income	32,868	35,687
Grant Funding	(6,627,367)	(463,563)
Subcontracting costs	(1,436,649)	(4,883,611)
Other expenses	(321,603)	(257,190)
Employee benefits expense	(298,383)	(279,927)
Hire fees	(42,658)	(29,811)
Depreciation and amortisation expense	(16,616)	(20,770)
(Loss) before income tax	1,381,124	(897,351)
Income tax expense	-	-
(Loss) / profit from continuing operations	1,381,124	(897,351)
Other comprehensive income, net of income tax	-	-
Total comprehensive (loss) for the year	1,381,124	(897,351)

Statement of Financial Position

Assets			
Current assets			
Cash and cash equivalents			
Trade and other receivables			
Total current assets			
Non-current assets			
Plant and equipment			
Total non-current assets			
Total assets			
Liabilities			
Current liabilities			
Trade and other payables			
Employee benefits			
Other liabilities			
Total current liabilities			
Total liabilities			
Net (liabilities) / assets			
Equity			
Retained earnings / (accumulated losses)			
Total equity			

2021 \$	2020 \$
5,295,147	1,395,019
1,399,615	207,831
6,694,762	1,602,850
66,466	83,082
66,466	83,082
6,761,228	1,685,932
 916,978	132,063
 39,874	29,769
5,106,073	2,206,921
6,062,925	2,368,753
6,062,925	2,368,753
698,303	(682,821)
698,303	(682,821)
698,303	(682,821)

Directors' Declaration

that the Company is not a reporting entity and that these of the Australian Charities and Not-for-profits Commission special purpose financial statements should be prepared Regulation 2013. in accordance with the accounting policies described in Note 2 of the financial statements.

The directors of the registered entity declare that:

- 1. The financial statements and notes, as set out on pages 5 to 16, are in accordance with the Australian Charities and Not-for-profits Commission Act 2012 and:
 - (a) comply with Australian Accounting Standards; and (b) give a true and fair view of the financial position
 - as at 30 June 2021 and of the performance for the Dated this 21st day of October 2021 year ended on that date of is in accordance with the accounting policies described in Note 2 to the financial statements.
- 2. In the directors' opinion, there are reasonable grounds to believe that the Company will be able to pay its debts as and when they become due and payable.

Independent Audit Report to the members of ALFA (NT) Limited

Report on the Financial Report

Opinion

We have audited the accompanying financial report, being standards are further described in the Auditor's a special purpose financial report of ALFA (NT) Limited (the Responsibilities for the Audit of the Financial Report section "Company"), which comprises the statement of financial of our report. We are independent of the Company in position as at 30 June 2021, the statement of profit or accordance with the auditor independence requirements of loss and other comprehensive income, statement of the Corporations Act 2001 and the ethical requirements of changes in equity and statement of cash flows for the year the Accounting Professional and Ethical Standards Board's then ended, notes comprising a summary of significant APES 110: Code of Ethics for Professional Accountants accounting policies and other explanatory information. (the Code) that are relevant to our audit of the financial and the directors' declaration.

In our opinion the financial report of ALFA (NT) Limited has been prepared in accordance with Div 60 of the We confirm that the independence declaration required 2012. includina:

- position as at 30 June 2021 and of its performance for directors at the same time of the auditor's report. the year ended on that date: and
- (b) complying with Australian Accounting Standards to We believe that the audit evidence we have obtained Australian Charities and Not-for-profits Commission opinion. Regulations 2013.

Basis for Opinion

Auditing Standards. Our responsibilities under those prepared to assist ALFA (NT) Limited to comply with the

The directors of the registered entity have determined This declaration is made in accordance with subs 60.15(2)

Director Director ...

financial reporting provisions of the Australian Charities be expected to influence the economic decisions of users and Not-for-profits Commission Act 2012. As a result, the taken on the basis of this financial report. financial report may not be suitable for another purpose. Our audit opinion is not modified in respect of this matter. As part of an audit in accordance with the Australian

Other Information

The directors are responsible for the other information. audit. We also: The other information obtained at the date of this auditor's report is included in the Directors' Report, but does not include the financial report and our auditor's report thereon.

Our opinion on the financial report does not cover the other information and accordingly we do not express any form of assurance conclusion thereon.

In connection with our audit of the financial report, our responsibility is to read the other information and, in doing so, consider whether the other information is materially inconsistent with the financial report or our knowledge obtained in the audit or otherwise appears to be materially misstated.

If, based on the work we have performed on the other information obtained prior to the date of this auditor's report, we conclude that there is a material misstatement of this other information, we are required to report that fact. We have nothing to report in this regard.

Responsibilities of the Directors for the Financial Report The directors of the registered entity are responsible for the preparation and fair presentation of the financial report that gives a true and fair view and have determined that the basis of preparation described in Note 1 to the financial report is appropriate to meet the requirements of the Australian Charities and Not-for-profits Commission Act 2012 and is appropriate to meet the needs of the members. The directors' responsibility also includes such internal control as the directors determine is necessary to enable the preparation of a financial report that gives a true and fair view and is free from material misstatement, whether due to fraud or error.

In preparing the financial report, the directors are We communicate with the directors regarding, among other matters, the planned scope and timing of the audit responsible for assessing the Company's entity's ability and significant audit findings, including any significant to continue as a going concern, disclosing, as applicable, deficiencies in internal control that we may identify during matters related to going concern and using the going concern basis of accounting unless the directors either our audit. intend to liquidate the registered entity or to cease operations, or have no realistic alternative but to do so.

Auditor's Responsibility for the Audit of the Financial Report Our objectives are to obtain reasonable assurance about whether the financial report as a whole is free from material misstatement, whether due to fraud or error. and to issue an auditor's report that includes our opinion. PERKS AUDIT PTY LTD Reasonable assurance is a high level of assurance, but is 84 Smith Street not a guarantee that an audit conducted in accordance Darwin, NT 0800 with Australian Accounting Standards will always detect a material misstatement when it exists. Misstatements can arise from fraud or error and are considered material if, individually or in the aggregate, they could reasonably Dated this 21st day of October 2021

report in Australia. We have also fulfilled our other ethical responsibilities in accordance with the Code.

Australian Charities and Not-for-profits Commission Act by the Australian Charities and Not-for-profits Commission Act 2012, which has been given to the directors of the (a) giving a true and fair view of the Company's financial Company, would be in the same terms if given to the

the extent described in Note 1, and Div 60 of the is sufficient and appropriate to provide a basis for our

Emphasis of Matter – Basis of Accounting

We draw attention to Note 1 to the financial report, which We conducted our audit in accordance with Australian describes the basis of accounting. The financial report is Auditing Standards, we exercise professional judgement and maintain professional scepticism throughout the

- Identify and assess the risks of material misstatement of the financial report, whether due to fraud or error. design and perform audit procedures responsive to those risks, and obtain audit evidence that is sufficient and appropriate to provide a basis of opinion. The risk of not detecting a material misstatement resulting from fraud is higher than for one resulting from error, as fraud may involve collusion, forgery, intentional omissions, misrepresentations, or the override of internal control.
- Obtain an understanding of internal control relevant to the audit in order to design audit procedures that are appropriate in the circumstances, but not for the purpose of expressing an opinion of the effectiveness of the Company's internal control.
- Evaluate the appropriateness of accounting policies used and the reasonableness of accounting estimates and related disclosures made by the directors.
- Conclude on the appropriateness of the director's use of the going concern basis of accounting and, based on the audit evidence obtained, whether a material uncertainty exists related to events or conditions that may cast significant doubt on the Company's ability to continue as a going concern. If we conclude that a material uncertainty exists, we are required to draw attention in our auditor's report to the related disclosures in the financial report or, if such disclosures are inadequate, to modify our opinion. Our conclusions are based on the audit evidence obtained up to the date of our auditor's report. However, future events or conditions may cause the Company to cease or continue as a going concern.
- · Evaluate the overall presentation, structure and content of the financial report, including the disclosures, and whether the financial report represents the underlying transactions and events in a manner that achieves fair presentation.

PETER J HILL Director **Registered Company** Auditor



Vernon Garnarradj and his young daughter Veneesha on a Warddeken bushwalk. This walk allowed Veneesha to visit her country for the first time, and was an opportunity for rangers and their families to connect with country and conduct fine scale burning across clan estates in the north of the Warddeken IPA. Photo © Matthew Abbott. "We use fire for many reasons; not only for conservation and management, but also as a healing process for land, for people, for native plants and animals. Fire is a tool that we have used from the beginning, from the deep past until today." — Dean Yibarbuk, Traditional Owner

