

Spinifex Healthy Country Plan Review 3

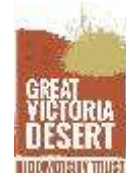
January – June 2017



The Southern Deserts Indigenous Ranger Forum, Ilkurlka, May 2017



Spinifex Land Management gratefully acknowledge the funders and supporters of our work:



The Spinifex Healthy Country Plan was supported by Rangelands NRM with funding from the Australian Government National Landcare Programme

Spinifex Healthy Country Plan Review 3 Highlights, Jan-Jun 2017

PROJECT ACTIVITY PROGRESS

- Spinifex HCP reviewed and updated – half way through 2017 58% of HCP Plan activities are on track, 3% are scheduled, 36% have minor issues indicating either a planning or work issue requiring attention to improve future outcomes.
- 2,340 km roads and tracks checked and mapped for Buffel Grass. First residual herbicide application applied to 2 ha of Buffel Grass, making a total of 39.6 ha since January 2016. Significant learnings from this program shared with neighbouring groups.
- Ground based burning to refresh hunting groups conducted by community – 23,746 ha. Infrastructure protection burns with DFES scheduled for September. 53 remote sites visited by helicopter and culturally appropriate burn plans developed.
- 66 camels culled over 18 Ranger patrols, making a total of 240 camels culled since July 2015. Camel impact temporarily reduced on 483,400 ha of SLM managed land.
- No fee for service activities scheduled.
- 27 Spinifex Women's Rangers participated in 50% of the SLM activities.
- 6 Bushranger trips with Tjuntjuntjara Remote Community School, making a total of 15 trips since January 2016.
- Rangers continue to use Samsung Tablets and Fulcrum Apps for data collection – 18 apps now developed for SLM work.
- WHS, HR, Finance and Project Management activities continue as planned.
- 2 very successful return to country trips hosted – Return to Country week at Ilkurlka and the inaugural Southern Indigenous Rangers Forum, also at Ilkurlka.
- 16/18 shed tanks checked, 4 repaired.
- 7 traditional soaks and rockholes checked on ground patrols, 53 remote sites checked by helicopter.
- All surrounding Parks and Reserves patrolled at least once.
- SLM Program involved 1,366 indigenous people over 123 different activities.



About this document

- The Spinifex people of the Great Victoria Desert developed a Healthy Country Plan (HCP) during 2015.
- The plan is being implemented by Pila Nguru Aboriginal Corporation's Spinifex Land Management team – the Spinifex Rangers.
- This document is both the third review of the HCP and a summary of the Spinifex Ranger team work outcomes from Jan - June 2017.

Return to Country Week, Ilkurlka, May 2017

***Spinifex Healthy
Country Plan***

VISION

“Spinifex People are keeping culture strong; elders are respected and younger people are learning from them; men and women, young and old are on country keeping it healthy, with stories, plants and animals all still there for all future Spinifex People”



Spinifex Healthy Country Plan

Targets – good for country



**threatened
species**



**Important
places**



kapi



**healthy
country**



knowledge



**community
infrastructure**



kuka



mai

Spinifex Healthy Country Plan

Threats – bad for country

Introduced predators



Non-Spinifex people doing the wrong thing



Buffel Grass



Camels



Bad Waru



Not being able to visit country



Hunting the wrong way



Loss of traditional knowledge



Mining



People not coming out and learning about country

Spinifex Healthy Country Plan

Projects

...to strengthen the targets and reduce the threats...

Project 1

buffel grass
eradication

Project 2

waru palya
(good fire)

Project 3

camel
management

Project 4

project
management
& capacity
development

Project 5

return to
country trips

Priority 6

kapi (rock
hole & soak)
protection &
maintenance

Project 7

visitor
management
and cultural
awareness

Project 8

joint
management

Project 9

introduced
predator
management

Project 10

community
support



Spinifex Healthy Country Plan Review 3, Jan-June 2017

This review was conducted with the Spinifex Ranger's and Pila Nguru staff.

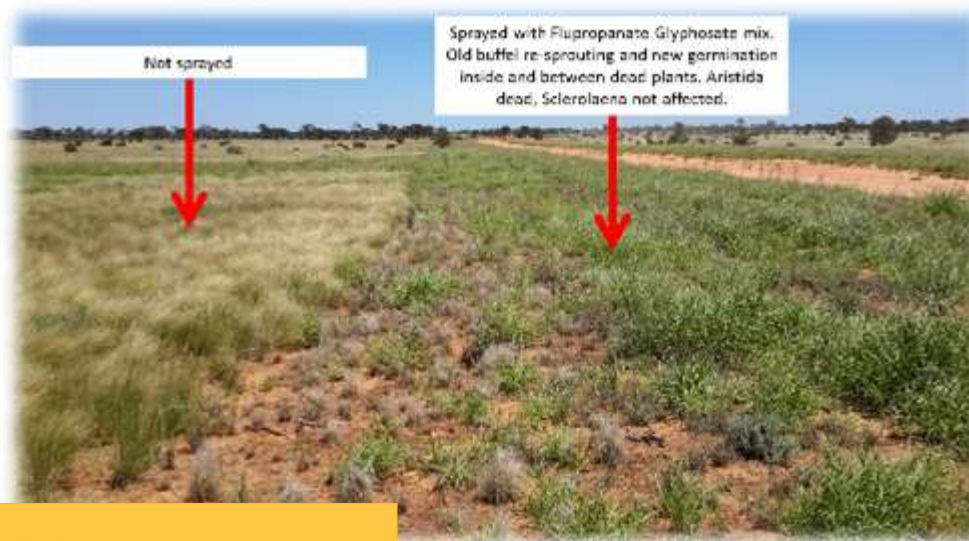
Each of the 9 projects and associated objectives, indicators of success and activities were reviewed in the following four ways:

- 1. Progress Report:** Evidence of achievement for each activity was provided from the Spinifex Rangers data collection efforts. Spatial data and statistics have been collected by the Rangers using Samsung Tablets with Fulcrum or PDF Maps apps.
- 2. Work Effort & Community Participation:** The team prioritised their work effort for each project during the planning process. Planned vs actual work effort has also been reviewed in this document with recommendations for improvement. Community participation numbers are noted for each activity.
- 3. Activity Ranking:** This evidence was considered by the review team and a ranking was given for each activity: **On-track**, **Scheduled**, **Minor Issues**, **Major Issues**, **Abandoned**, **New**. Recommendations are made to manage activities with Minor Issues.
- 4. Objectives, Indicators, and Activities:** the progress and wording of each of these were assessed to ensure they are achieving their original intent to improve the targets and reduce the threats, eventually leading to the achievement of the HCP vision. Recommendations are made to sharpen and further organise these items.

1: Buffel Grass Eradication

OBJECTIVE: in 10 years Buffel Grass is gone from Spinifex Country

INDICATOR: distribution of buffel grass and other invasive weeds



Buffel grass 2016 management assessment results

2017 Jan-June Summary

- 2,340 km roads and tracks checked and mapped for Buffel Grass
- First residual herbicide application applied to an additional 2ha = 39.42 ha treated since Jan 2016
- Investigation undertaken into 2016 results, valuable learnings shared with surrounding Ranger groups
- 30 activities, 189 indigenous people involved
- Ranger effort for Buffel Grass tracking behind target, 18 days planned, 9 days spent.
- HCP planned buffel activity 14% "Scheduled", 86% minor issues.



1.1 Progress Report: Jan-June 2017 – Buffel Grass

INDICATOR PROGRESS

“distribution of buffel grass and other weeds”

Outlier distribution: 2,340 km roads and tracks checked and mapped for Buffel Grass. 67% of Spinifex tracks checked (same as previous reporting period). Same amount of work in Pilki and more in Mamungari than last reporting period (Map 1 and Table 1). New populations mapped along road to Kalgoorlie.

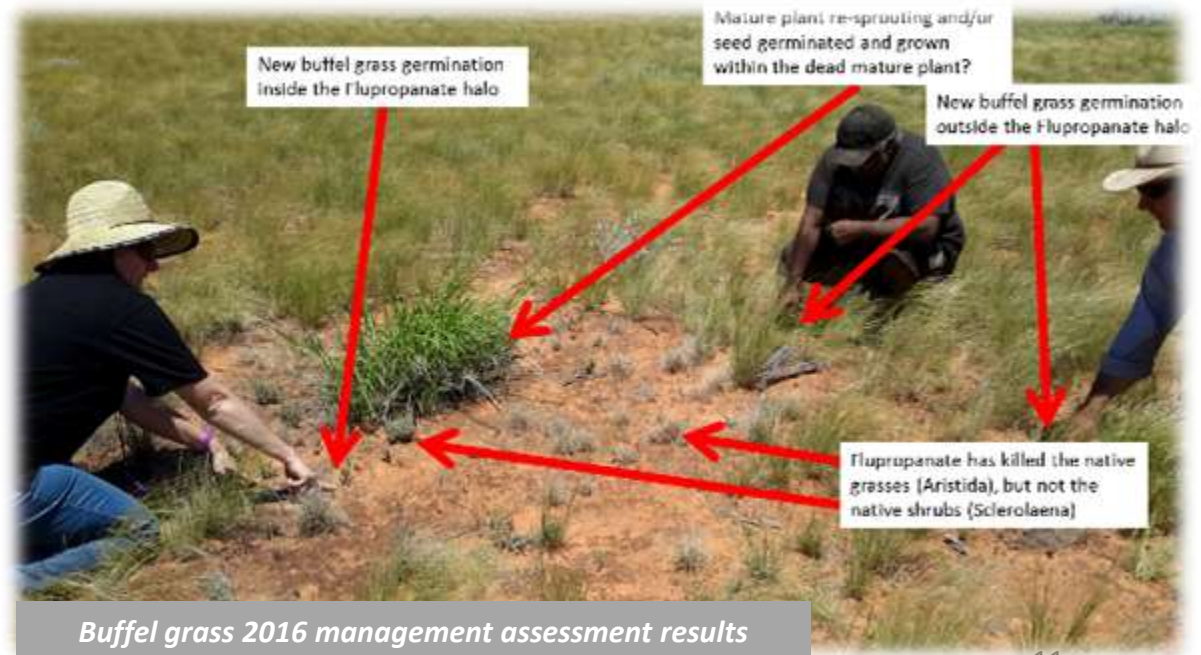
Halo distribution: No drone image digitising completed this reporting period therefore buffel halo distribution estimation remains at = 87 ha.

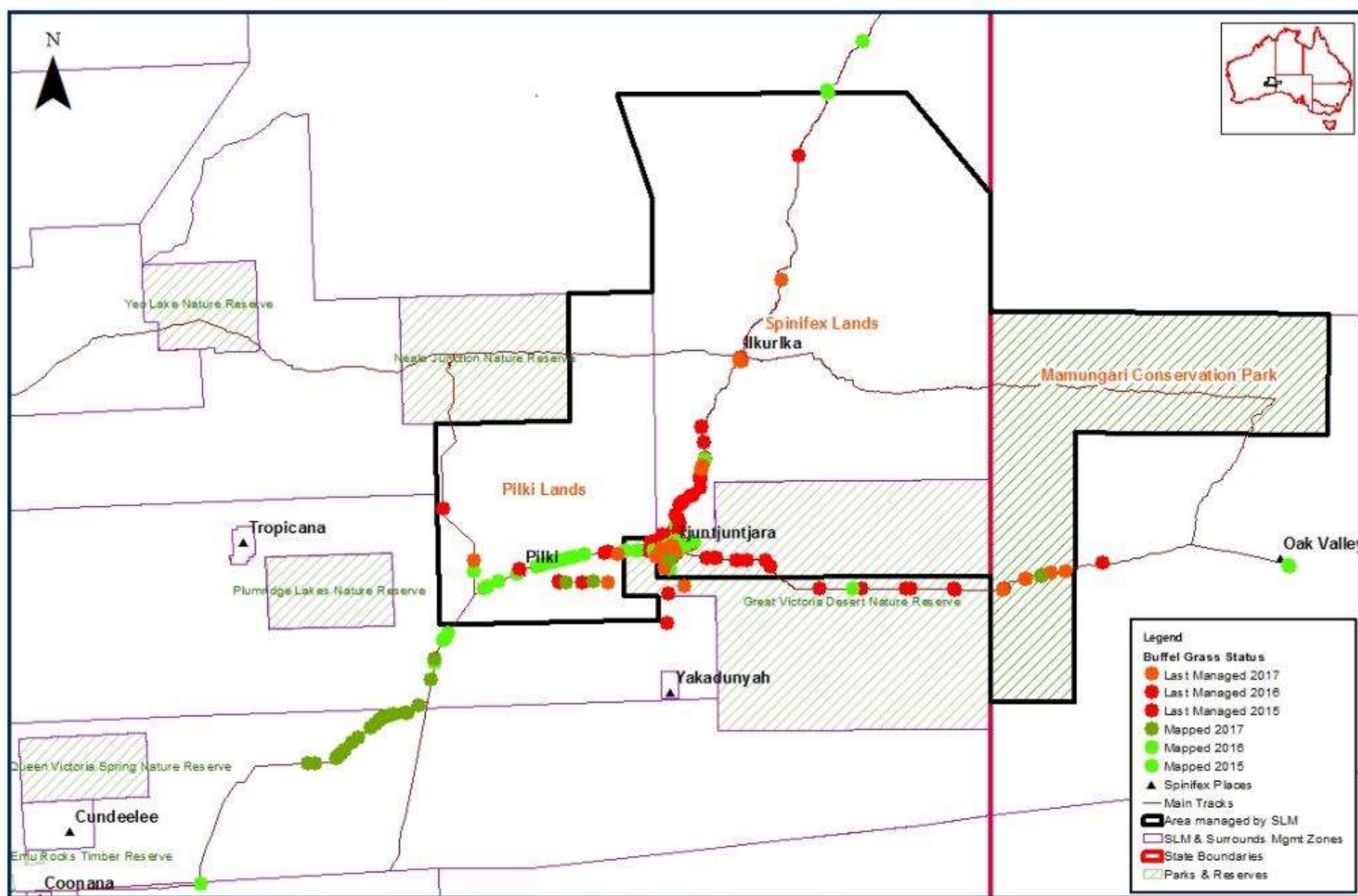
ACTIVITY PROGRESS – 30 activities, 189 people involved

2 ha were treated with a combination of received Flupropanate and Pine Oil (Table 1). Most buffel grass activity in this reporting period was spent in investigating why many of the 2016 treatments appeared unsuccessful and burning buffel in and around the community in preparation for 2017 treatments. Some populations re-sprouted that were treated with residual, grass selective herbicide in 2016. Inspections and research has attributed this chemical failure to the unusually high summer rainfall received over the 16/17 summer. In addition, this herbicide was ineffective in preventing germination of seed lodged in the mature plant crowns. Control methods have been adjusted to account for these issues and learnings have been shared with other indigenous ranger groups at the Southern Ranger Forum.

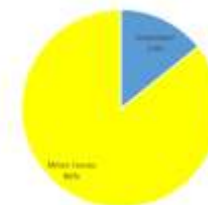
Table 1: Buffel Management Results

Management Area	Area Treated (ha)					TOTAL
	(not including burning for buffel control, refer to Project 2)					
	2015	2016		2017		
	Jun-Dec	Jan-Jun	Jun-Dec	Jan June	Jun-Dec	
Spinifex & GVD Nature Reserve	2.00	18.04	6.71	1.08		27.83
Spinifex Lands		3.99	0.78	0.36		5.13
GVD Nature Reserve		1.3	0.88	0.18		2.36
Pilki Lands		0.63	0.09	0.09		0.81
Mamungari Cons Park		1.4	0.54	0.31		2.25
Menzies Shire (out of SLM Areas)		0.05	0.03			0.08
TOTAL	2	25.41	9.03	2.02	0	38.46





Spinifex HCP Annual Report 2017 - Buffel Grass Activity Tracking



1.2 HCP Activity Tracking – Buffel Grass

Project 1: Buffel Grass Eradication

Objectives In 10 years Buffel Grass is gone from Spinifex Country

Indicators Distribution of buffel grass and other invasive weeds

Strategies	Actions	Tracking			Progress Details Jan-Jun 2017	Jul-Dec 16 implemented?	Recommendations Jan-Jun 17
		Jan-Jun 16	Jul-Dec 16	Jan-Jun 17			
Remove Buffel Grass from all country managed by Spinifex Land Management	Survey, record and manage weed populations along all Spinifex and Pilki access routes	On-Track	On-Track	Minor issues	2,340 km roads and tracks checked and mapped. First residual herbicide application to 2 ha. Many 2016 treats unsuccessful due to leaching. Shared findings with Ranger Forum.	✓	If possible, burn large areas first. Wait for regen then apply mix Roundup, Flup and Pine Oil 2%. Work out a strategy to ensure someone can spray Roundup if summer rain activates buffel during holidays.
	Survey, record and manage weed populations in Tjuntjuntjara	On-Track	On-Track	Minor issues	Coarse digitisation = 87 ha, fine digitisation postponed until free time.	✓	Monitor 25% pine oil treatments to ensure enough other ground cover survives to reduce wind erosion
	Purchase and maintain spray equipment	New	On-Track	Minor issues	Purchased petrol pump and spray ute. Issues with buying second hand ute - hasn't worked at all and cost lots of money. New pump much better.	✓	Get the 4WD working on this ute so can increase the water rate. Buy retractable hose to make spot spraying easier
	Reduce new weeds coming into country using quarantine and wash-down measures	Scheduled	Scheduled	Scheduled	Wash-down bay included in new IAS shed application. No other quarantine organised yet.	✓	New application for Spinifex Land Management Centre submitted to IAS in early June 2017. Includes wash down bay
	Place awareness signs @ edge Spinifex country	Minor issues	Minor issues	Minor issues	No progress		Focus on achieving some visual management results first, then will be easier to encourage people to 'maintain the gains'.
	Work with Oak Valley to survey, record and manage weed populations in Mamungari Conservation Park	On-Track	On-Track	Minor issues	Very large summer rain has washed residual from soil profile and new germination over summer when no staff available. Many new plants have now set seed so we are back to the beginning.	✓	Support MT to submit an IAS Ranger project
	Negotiate contracts with mining company for Spinifex LM to undertake contract weed management services	Scheduled	Minor issues	Minor issues	No mining companies currently active in Spinifex. Tropicana programs not weed related.		n/a at the moment

1.4 HCP Plan Update Recommendations

Project Title: No change. **Objectives:** No change. **Indicators:** No change. **Activities:** No change

PRIORITY 2: Waru Palya (good fire)

OBJECTIVE: Increase use of fire management (based on traditional knowledge) in Spinifex Country

INDICATOR: location, size, season, intensity of waru

2017 Jan-June Summary

- 53 remote sites visited and burn plans developed
- Ground based patch burning conducted, 23,746 ha burnt to refresh hunting grounds
- Infrastructure protection burns scheduled for September
- 6 activities, 107 indigenous people involved
- Ranger effort for Waru Palya tracking behind target, 7 days planned, 4 days spent.
- HCP planned waru palya activity 57% "On-track", 43% scheduled.



Sharing Spinifex waru experiences at the Southern Ranger Forum, Ilkurlka June 2017



Planning site inspections for cultural and fire planning, Back to Country Week, Ilkurlka May 2017.

2.1 Progress Report: Jan-June 2017 - Fire

INDICATOR PROGRESS:

"location, size, season, intensity of Waru"

Fire scar mapping from 2006-2015 using for 2016 planning (NAFI, DPaW Project, Spinifex records). NAFI fire scar mapping for GVD to be extended back to 1996, with support from the Great Victoria Desert Biodiversity Trust (GVDBT) in 2017.

First size, season, location analysis proposed for 2017 EOY Report.

ACTIVITY PROGRESS 6 activities, 107 people involved

Fire Planning: Spinifex Elders and Rangers visited 53 sites by helicopter to develop burn plans for those areas.

Landscape Management Burning:

Aerial Burning: 0 ha burnt in Spinifex from aircraft.

Ground Burning: 23,746 ha of ground based burning to refresh hunting grounds was conducted by the Spinifex community and/or SLM during Jan-June 2017. NB: NAFI figures only, fine scale fire scar analysis calculated end of calendar year only (Table 2, Map 2).

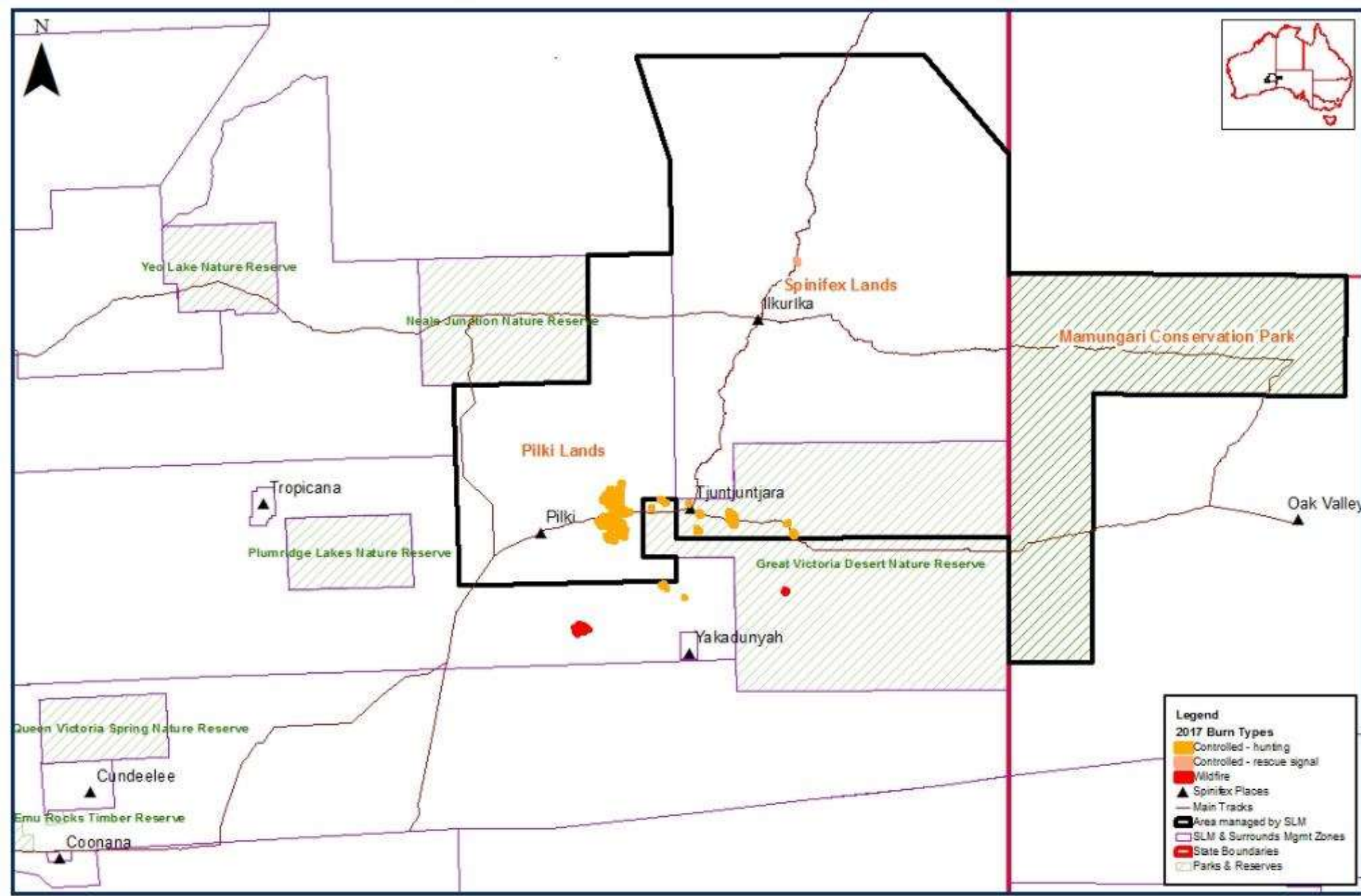
Infrastructure Protection Burning: Small infrastructure protection burns around Tjuntjuntjara conducted by the Spinifex community and/or SLM during Jan-June 2017. The area of these burns is too small to be recorded on NAFI and therefore won't be recorded until a more detailed fire scar analysis is conducted by SLM at the end of the year.

Table 2: Area burnt across Spinifex, Pilki and GVD Reserve, 2016

Burn Type	Area Burnt (ha) 2016					Total
	Spinifex Lands	Spinifex & GVD Nature Reserve	Pilki Lands	GVD Nature Reserve	Menzies Shire (out of SLM Areas)	
Controlled - hunting grounds		2,763	20,412	230	342	23,746
Controlled - rescue signal	191					191
Controlled - aerial patch						-
Controlled - buffel mgmt						-
Controlled - infrastructure protection						-
Controlled Ground - patch						-
Wildfire				181	2,275	2,456
Total Burnt Area	191	2,763	20,412	411	2,617	26,393



Burning for easier buffel grass control later in the year, near Tjuntjuntjara community

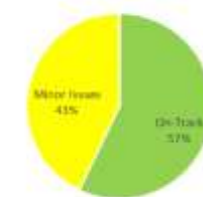


Author: Spinifex Land Management
Date: 15/08/2017
Coordinate System: GDA 1994 MGA Zone 52
Projection: Transverse Mercator GDA 1994

Area burnt in SLM managed Lands and adjacent areas, Jan-June 2017.
NB: NA FI fire scars only. Smaller burns not represented.



Spinifex HCP Review Jan-Jun 17 - Waru Palya Activity Tracking



2.2 HCP Activity Tracking - Fire

Objectives Increase use of fire management (based on traditional knowledge) in Spinifex Country
Indicators Location, size, season, intensity of Waru

Strategies	Actions	Tracking			Progress Details Jan-Jun 2017	Jul-Dec '16 implemented?	Recommendations Jan-Jun 17
		Jan-Jun '16	Jul-Dec '16	Jan-Jun '17			
Waru Palya* - Spinifex Land Management actively burning throughout Spinifex Country	Landscape - identify clearly the traditional fire management practices that need to be reinstated, the priority areas for traditional burning, resource requirements and feasibility.	On-Track	On-Track	On-track	Two new GVDT project to investigate Blue Streak Rocket imagery and NAFI fire scar extension back to 2001. Elder interviews conducted by Rangers re: traditional fire practices. Chopper surveys with Elders and rangers.	✓	Bring all of the projects together at Tjuntjun in early 2018 to discuss results and implications of all projects and what that means for the Spinifex burn program
	Landscape - protect sensitive areas from burning	Scheduled	On-Track	On-track	Won't update this until information above is received	✓	Continue to update as new information is collected and interpreted
	Landscape - opportunistically burn in good season	Scheduled	On-Track	On-track	2,456 ha wildfires, ? ha buffel burns (to be calculated in December)		No aerial burning scheduled for 2017. Ground patch burning scheduled for August 2017
	Landscape - burning on hunting grounds	Scheduled	On-Track	On-track	23,746 ha hunting burns	✓	Rangers and community continue to burn when and where necessary
	Landscape & Infrastructure - map access tracks and control lines	On-Track	On-Track	Minor issues	Mapped previously		Map these tracks prior to year end 2017
	Landscape & Infrastructure - establish and/or maintain new access tracks and control lines	Scheduled	Minor issues	Minor issues	Grader still not available		Grader possibly heading to Ilkurlka August 2017
	Infrastructure - burn for infrastructure protection around communities / camps	Scheduled	On-Track	Minor issues	Scheduled for August		DFES scheduled to support Ilkurlka and Tjuntjuntjara burns in August

2.4 HCP Plan Update Recommendations

Project Title: no change. **Objectives:** no change. **Indicators:** no change. **Activities:** no change

3: Camel Management

OBJECTIVES: 1) Remove as many camels as possible from Spinifex Lands by 2020, 2) In 2020 there is less camel impact at priority sites than in 2016.

INDICATORS: 1: # camels observed and culled in country managed by SLM, 2) Camel impact at priority sites.

2017 Jan-June Summary

- 25 activities, 241 indigenous people involved
- 1,488 km roads and tracks managed by Spinifex Rangers patrolled for camels and a further 894 km patrolled in adjacent areas over 25 Ranger Patrols.
- 66 camels ground culled
- Camel impact temporarily reduced on 483,400 ha of SLM managed land
- DEWNR aerielly culled 600 camels north of Hughes, on the Nullarbor Plain in SA, close to SLM vicinity
- Ranger effort for camel on target, 7 days planned and 7 days spent.
- HCP planned camel activity 67% "On-track", 16% scheduled, 17% minor issues.



Participants in the Humane Destruction of Animals Training, Southern Ranger Forum, May 2017



3.1 Progress Report: Jan-June 2017

INDICATOR PROGRESS

"# camels observed and culled in country managed by SLM "

- This reporting period: 147 camels observed, 66 of which were culled, representing 45% of observations culled.
- Cumulative (since Jul 2015): 464 observed, 240 culled, representing 52% of observations culled.

"Camel impact at priority sites"

- No camels were seen at Panpara, Tjintirrkara, Tjitjiti or Wyara Rockhole. Kalkali was not patrolled. Impact monitoring to be established with support from AWNRM in 2017.

ACTIVITY PROGRESS 25 activities, 175 people involved

Ground Patrols:

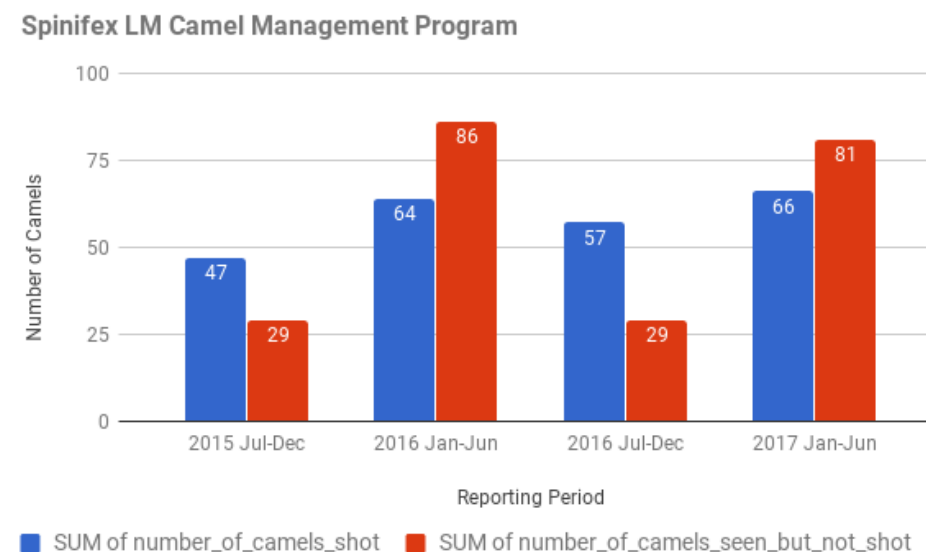
- 1,488 km roads and tracks managed by Spinifex Rangers patrolled for camels. A further 894 km patrolled in adjacent areas (Table 8).
- 72% of roads and tracks managed by Spinifex Rangers (Spinifex, Pilki, Mamungari) were patrolled over 25 Ranger Patrols.
- 66 camels culled during ground patrols (slightly up from 63 last reporting period) and 81 others seen but not able to be culled (up from 29 last reporting period) (Chart 1, Map 3).
- This activity will temporarily reduce camel impact over approx. 483,400 ha (estimated 10 km radius around each cull gives temporary reduction in camel impact, i.e. until other camels move into the area (Table 3, Map 3).

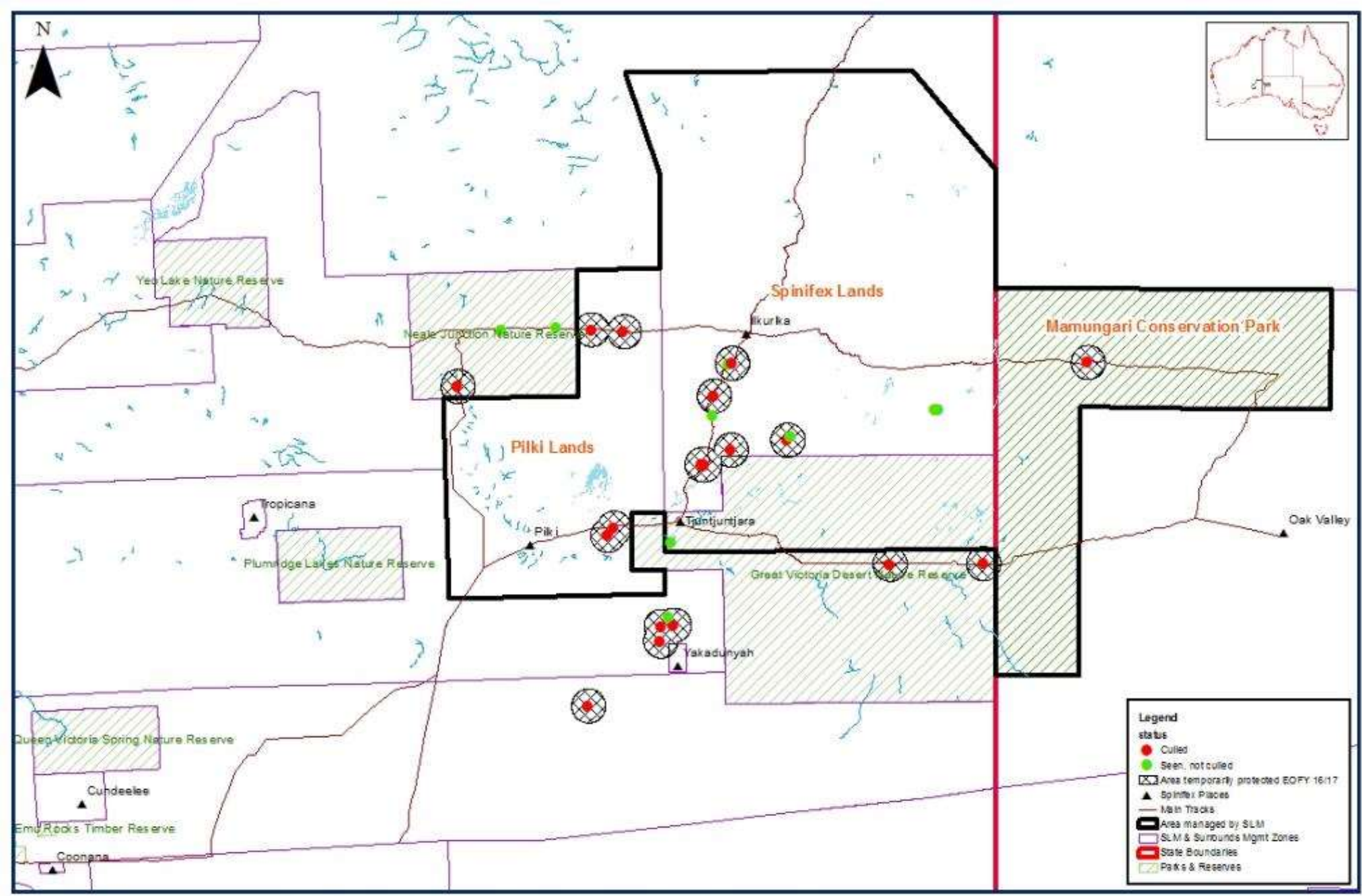
Aerial Culls: DEWNR aerially culled 600 camels nears Hughes Dip in SA.

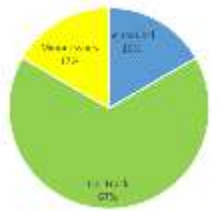
Table 3: landscape area temporarily protected by SLM camel management

Management Zone	Area Temporarily Protected (Ha)
Spinifex Lands NT excl	150,842
Spinifex Lands NT non excl GVD NR	9,874
Pilki Lands NT excl	106,665
Great Vic Desert NR	58,714
Mamungari CP	33,634
Menzies Shire part	59,820
Neales Junction NR	30,141
Yackadunyah AR	2,280
Out of Areas	31,431
TOTAL	483,400

Chart 1: SLM camel management statistics, Jan-June







3.2 HCP Activity Tracking - Camels

Project 3: Camel Management

Objectives 1) Remove as many camels as possible from Spinifex Lands by 2020; 2) In 2020 there is less camel impact at priority sites than in 2016.

Indicators 1) # camels observed and culled in country managed by SLM; 2) Camel impact at priority sites.

Strategies	Actions	Tracking			Progress Details Jan-Jun 2017	Jul-Dec 16 implemented?	Recommendations Jan-Jun 17
		Jan-Jun 16	Jul-Dec 16	Jan-Jun 17			
Ground-based and aerial culling of camels	Record camel abundance and distribution and identify camel hotspots (for intensive mgmt.)	On-Track	On-Track	on-track	81 observed and mapped using Fulcrum	✓	Continue
	Shooting training and licencing	Scheduled	Scheduled	on-track	All Rangers participated, Shane completed	✓	Training complete, need to update Corporate Licence
	Cull Camels opportunistically	On-Track	On-Track	on-track	66 camels culled	✓	Continue
	Targeted control around hotspots	Minor issues	Minor issues	minor issues	Review need for hot spots		Require a discussion re: hot spots vs opportune culling
	Aerial camel culls around hotspots	Scheduled	Scheduled	on-track	600 aerially culled near Hughes' Dip in SA	✓	Scheduled, pending camel accumulation
	Muster Camels	Scheduled	Scheduled	scheduled	None occurred because there were no identified camel accumulations in southern potential muster areas.		Scheduled, pending camel accumulation

3.4 HCP Plan Update Recommendations

Project Title: no change. **Objectives:** no change. **Indicators:** no change. **Activities:** no change

4 : Project management & capacity development

OBJECTIVES: 1) Project meets all targets and requirements and is run efficiently and effectively; 2) Project staff (i.e. rangers) have completed Certification in Conservation & Land Management; 3) Securing office and storage space and accommodation for employees.

INDICATORS: 1) Implementation of HCP work plan; 2) Progress reports against budget and work program.

2017 Jan-June Summary

- New SLM Program funding secured from IAS
- Ranger Training in preparing and applying chemicals, interacting with tourists, humane destruction of animals and exercise and stretching
- SLM hosted the inaugural Southern Rangers Forum at Ilkurlka, attended by 8 neighbouring groups, 78 people.
- No Fee for Service activities scheduled
- 3 Spinifex HCP reviews completed
- Rangers continue using Samsung Tablets and Fulcrum Apps for data collection. 18 apps created and experiences shared with surrounding groups
- WHS program continuing, including workplace inspections, toolbox meetings & incident reporting
- 26 activities, 200 indigenous people involved
- Ranger effort again exceeding target, due to training and Sthn Rangers forum
- HCP planned project mgmt. activity 94% "On-track", 6% minor issues



Chemical Training Course, Tjuntjuntjara, May 2017



Participants at the Southern Ranger Forum

4.1 Progress Report: Jan-June 2017

INDICATOR PROGRESS

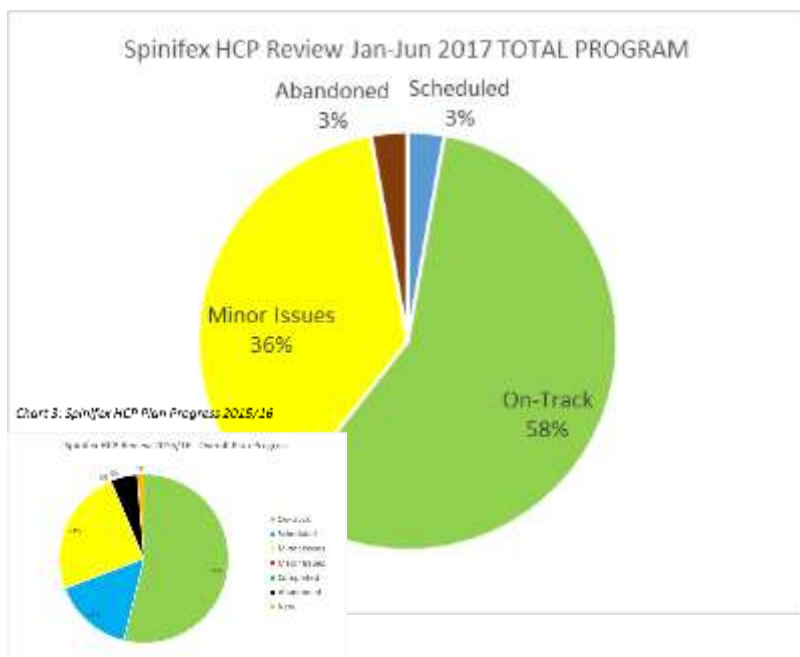
“Implementation of HCP work plan”

58% on-track (down by 1%), 3% scheduled (down by 8%), 36% minor issues (up by 9%) (Chart 2).

“Progress reports against budget and work program”

SLM managing and/or planning 13 projects, including 4 new projects in negotiation (Table 5).

Chart 2: Spinifex HCP Plan Progress 2015/16



ACTIVITY PROGRESS 26 activities, 200 people involved

Capacity Building:

Infrastructure – Spinifex Land Management Centre application submitted to IAS, awaiting outcome.

Equipment - asset register maintained.

Training - AHCCHM303 Prepare and Apply Chemicals – 13 participants x 12 hours = 156 hours; AHCCHM304 Transport and Store Chemicals – 7 participants x 12 hours = 19 hours; AHCPMG304 Use Firearms to Humanely Destroy Animals – 6 participants x 8 hours = 48 hours (4 refresher, 1 new, 1 partially complete); AHCCPW301A Supervise Park Visitor Activities – 12 participants x 4 hours = 48 hours (all partially complete), Stretching and Fitness (informal with a Physio) (Table 4)

Ranger Exchange – Co-organised and hosted the inaugural Southern Indigenous Rangers Forum with visiting representatives from Blackstone, Warburton, Pipalyatjara, Birriliburu, Kalgoorlie, Nadju, Oak Valley, Yalata and Ceduna.

Fee for Service – seed collection for Tropicana scheduled for later 2017 and seed ecology research contract in negotiation.

Coordination:

Implement Plan, Reporting, Annual Review - plan implementation, review and reporting going well (Chart 2, Table 5). 2 reviews complete, 3rd will be complete August 2017 (this document). New IAS successfully written and negotiated for Ranger Program and 2nd project pending for Spinifex Land Mgmt Centre.

WHS - Toolbox meetings, work place inspections, hazard & incident reporting continuing. Chemical Register maintained.

HR & Finance – Desert Support Services continuing to provide these services.

Working Group - communication with Working Group has been informal, need to set up regular formal meetings

GIS & Data Management - SLM ArcMap GIS and Fulcrum databases maintained; 18 Fulcrum apps developed and in use for SLM data capture, including buffel, camel and fire management, photopoint monitoring, shed tanks, etc. Data used to compile this report.

Women’s Ranger Program: Women Rangers are now an active part of the Spinifex Casual Ranger Pool and working regularly as part of the broader team. Out of the 52 events conducted by SLM from Jan-Jun 2017, women participated in 20, nearly 50%.

4.1 Progress Report: Jan-June 2017 cont.

Table 4: Spinifex Ranger Training Matrix - % of Rangers with “strongly preferred” and “preferred training” and training schedule.

EOFY 2016 17	Strongly Preferred						Preferred		
	HLTAID003 Provide First Aid, St Johns	AHCVPT203A Use firearms to humanely destroy animals (practical section only).	AHCCHM101A Follow basic chemical safety rules. AHCCHM201A Apply chemicals under supervision	AHCHM303A Prepare and apply chemicals AHCHM304A Transport, handle and store chemicals	Manual Handling	Fulcrum Induction	DFES, Introduction to Bushfire Fighting.	RIIVH201D Operate light vehicle & defensive driving. RIIVH305D Operate and maintain 4WD vehicles.	AQF Level 1, Professional Witness Refresher Course
Permanent Rangers - qualifications current	out of date	100%	80%	100%	0%	100%	40%	40%	100%
Frequent Casual Rangers - qualifications current	0%	50%	13%	38%	0%	38%	25%	0%	38%
Next Training Scheduled	Nov-17	Dec-19	Dec-19	Dec-19	Nov-17	as needed	Sep-17	Mar-18	Sep-18

Table 5: SLM Project Status EOFY 2016/17

CURRENT PROJECTS	Funding body	Project Size	Funding Status/ yr							
			2012/13	2013/14	2014/15	2015/16	2016/17	2017/18	2018/19	2019/20
Enhancing Western Desert - SLM Ranger Program	Dept Environment & Energy, National Landcare Program	Large	✓	✓	✓	✓	✓			
Indigenous Advancement Strategy - SLM Ranger Program	Dept. Prime Minister and Cabinet	Large						✓	?	?
Rangelands NRM - develop and start implementing HCP	RNRM, through National Landcare Program	Medium		✓	✓	✓	✓	✓	?	?
Land Management in Mamungari Conservation Park	Mamungari Co-mgmt Board, through SA Govt	Small		✓	✓	✓	✓	✓	verbal support	verbal support
WA Joint Management	DPaW	Small			✓	✓	✓	✓	joint project discussions	
Tjuntjuntjara School Bushrangers	DEC	Very small				✓	✓	✓	?	?
Women's Ranger Seed Funding	Dept Environment & Energy, National Landcare Program	Very small					✓			
Spinifex Return to Country - Fire Planning	GVD Trust	Small					✓			
Buffel Grass Management	Menzies Shire	Small					✓	✓	?	?
Spinifex Land Management Centre	Dept. Prime Minister and Cabinet, IAS	Large					Submitted June 17	?		
Threatened Species Fund - Nganamara	Dept Environment and Energy, through RNRM	Medium					Submitted June 17	?	?	
Buffel Free GVD - BHP Project	CDNTS	Small					Not yet submitted	?	?	?
Indigenous Protected Area (IPA) - Spinifex and Pilki	Dept Environment and Energy	Large	Registered interest				Re-registered interest	?	?	?

4.2 HCP Activity Tracking – Project Management

Project Management & Capacity Building Project



Objectives

1) Project meets all targets and requirements and is run efficiently and effectively; 2) Project staff (i.e. rangers) have completed Certification in Conservation & Land Management; 3) Securing office and storage space and accommodation for employees.

Indicators

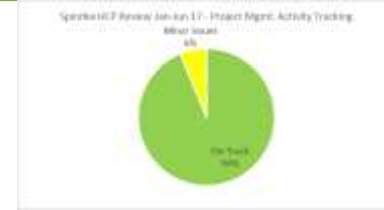
1) Implementation of HCP Work Plan, 2) Progress reports against budget and work program.

Strategies	Actions	Tracking			Progress Details Jan-Jun 2017	Jul-Dec 16 implemented?	Recommendations Jan-Jun 17
		Jan-Jun 16	Jul-Dec 16	Jan-Jun 17			
Capacity Building and Skills Development	Assist Pila Nguru to build infrastructure capacity (i.e. housing, office & storage) where possible	On-Track	On-Track	on-track	Still waiting for land tenure change. IAS application submitted for Spinifex Land Management Centre. Built verandah on Ranger House	✓	New project designed and submitted to IAS in early June. Extend deck and build verandah on PNAC Caravan
	Purchase and maintain equipment and assets	On-Track	On-Track	on-track	Spray vehicle a lemon. Fixed spare tyre holders on ute. Vehicles cost \$57K in maintenance, up from \$40K the year before.		Equipment replacement schedule outstanding. Investigate purchasing a Dingo and trailer to cart Dingo and John Deere Gator
	Provide accredited and other training courses as identified during project	On-Track	On-Track	on-track	Prepare and Apply Chemicals Transport and Store Chemicals Humane Destruction of Animals Visitor Management Training First Aid postponed due to weather	✓	Continue as planned - First Aid
	Develop and maintain exchange programs with other ranger groups, close cultural groups, and the Indigenous Deserts Network	Scheduled	On-Track	on-track	Southern Ranger Forum brought 8 groups together	✓	Invite Leonie from Birriliburu to Bush Blitz. Joint buffel bash on northern border with Blackstone Rangers. Joint buffel bash between red drum and Kitchener with Kalgoorlie Rangers
	Support fee for service contracts (weeds spraying on mine roads) and negotiations with DPaW and other organisations	On-Track	On-Track	on-track	Mamungari - park services Menzies Shire - buffel grass control Tropicana SOW for Fact Sheets DPaW SOW	✓	Continue as planned - Tropicana Mine environmental and rehabilitation program opportunities. Negotiate fee for service to DPaW for GVD Nature Reserve.

PNAC General Manager and Spinifex Head Ranger met with politicians and the Threatened Species Commissioner, May 2017



4.2 HCP Activity Tracking, cont. – Project Management



Coordinate and manage Spinifex Land Management Ranger Program to implement plan	Coordinate and manage Spinifex Land Management Ranger Program to implement plan	On-Track	On-Track	on-track	HCP Review Jul-Dec16 finished, Jan-Jun 17 started. IAS funding secured	✓	Continue investigating IPA options to diversify funding base
	Develop and ensure implementation of policies & procedures manual	On-Track	On-Track	on-track	WHS program ongoing	✓	Continue to implement WHS procedures and policies. WHS review planned for Dec 17
	HR Management (payroll, leave, etc.)	On-Track	On-Track	on-track	Contracted to DSS	✓	Continue contract with DSS
	Financing and budget management	On-Track	On-Track	on-track	Contracted to DSS	✓	Continue contract with DSS
	Establish Ranger reference group (Working Group)	Minor Issues	Minor Issues	minor issues	New Board elected at PNAC meeting. No formal SLM Working Group meeting, but many informal discussions.		Pending
	Work planning with rangers and Working Group	Minor Issues	On-Track	on-track	Meetings with Rangers and PNAC Board members when required, e.g. fire planning, GVD partnership meetings	✓	Continue as planned
	GIS & Data Management	On-Track	On-Track	on-track	SLM ArcMap GIS and Fulcrum databases maintained; 16 Fulcrum apps developed and in use for SLM data capture, including buffel, camel and fire management, photopoint monitoring, shed tanks, etc. Data used to compile this report	✓	Continue using and refining Fulcrum Apps. Document processes used to analyse data in Fulcrum, ArcMap and Excel in December 2017
	Reporting with rangers and Working Group	On-Track	On-Track	on-track	Fulcrum ensures Rangers have full data set with them when they are working. Photo board and Facebook site report progress to wider community	✓	Aim to complete activity tracking tables with Rangers and PNAC Board reps prior to end of year wind up.
	Annual review & analysis of monitoring data and adaptation of work plan / strategic plan	On-Track	On-Track	on-track	In progress	✓	Next review and report due end of December 2017
Establish a Women's Ranger Program	Support for Ranger coordinator (female ranger coordinator)	On-Track	On-Track	on-track	PNAC Coordinator filling Women's Ranger Coordinator Role	✓	PNAC Coordinator to continue developing Women's Program.
	Equipment for women's trips (swags, etc.)	On-Track	On-Track	on-track	Sharing Spinifex Ranger equipment and facilities	✓	Continue sharing resources with the Spinifex Rangers. Seek resources if extra equipment required.

4.4 HCP Plan Update Recommendations

Project Title: No change, Objective: No change Indicator: No change Activities: No change

5.0 Return to country

OBJECTIVES: Spinifex People have the resources to be able to visit country together at least twice a year for one week each trip; Improve/increase access to water in Spinifex Country by renovating existing tanks (6) & building 3 new tanks

INDICATOR: 1) participation in return to country trips, 2) shed tank number and status, 3) “# of women participating in SLM activities”

2016 Summary

- 6 Bushranger trips with Tjuntjuntjara Remote Community School
- 16/19 shed tanks checked, 4 repaired
- 27 different Spinifex women have participated in SLM activities
- 12 activities, 331 indigenous people involved
- Ranger effort for Return to Country again exceeding target, re-allocation of time to be considered next review
- HCP planned Return to Country activity 60% “On-track”, 40% minor issues.



SLM and the Tjuntjuntjara community at Return to Country week, Ilkurlka May 2017



The Bushrangers speaking at the Southern Ranger Forum

5.1 Progress Report: Jan-June 2017

INDICATOR PROGRESS

“Participation in Return to Country Trips”

- 271 people participated in various Return to Country activities.

“Shed tank number and status”

- 16/19 shed tanks checked, 4 repaired, 10 need minor repairs, 4 OK, 1 not checked.

“# of women participating in SLM activities”

- 27 different Spinifex women have participated in SLM activities.

ACTIVITY PROGRESS 12 activities, 331 people involved

Return to country trips: two large return to country trips occurred, one with over half of the Tjuntjuntjara community (79 people) to map cultural sites and develop landscape burning rules. The second trip was the inaugural Southern Rangers Forum at Ilkurlka which was also attended by most of the neighbouring Ranger/Land Management groups. There were 6 Bushranger trips with the Tjuntjuntjara Remote Community School.

Shed Tanks: No new shed tanks constructed. 16/19 shed tanks were checked during Ranger Patrols, 4 were fixed, 10 were reported for repairs, 4 were OK and 1 was not checked (Map 4). New remote meeting infrastructure planning for Pilki, including toilets, showers and meeting shelter.

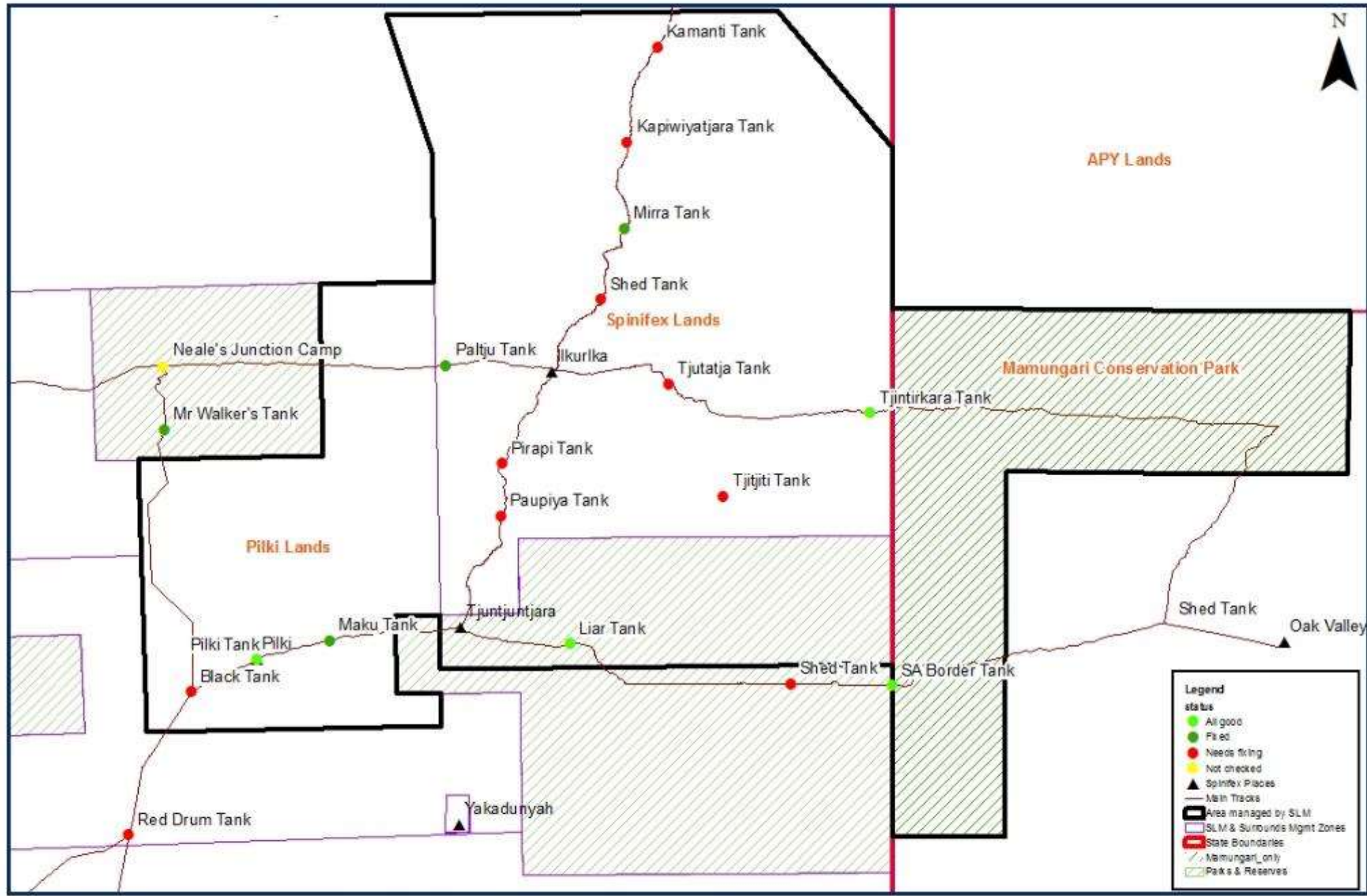
Access to country: No new roads were established.

Women’s Rangers: 27 Spinifex women participated in the Return to Country trip and activities, 5 completed their chemical training and 8 Spinifex and 10 women from neighbouring groups participated in the Southern Ranger Forum.



Spinifex Women’s Rangers and Bushrangers at the Southern Rangers Forum in Ilkurlka

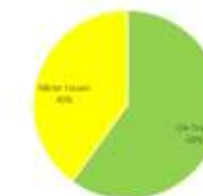




Spinifex Land Management, Shed Tank Status, June 2017

Author: Spinifex Land Management
Date: 22/08/2017
Coordinate System: GDA 1994 MGA Zone 52
Projection: Transverse Mercator GDA 1994





5.2 HCP Activity Tracking

Project 5: Return to Country Trips

Objectives 1) Spinifex People have the resources to be able to visit country together at least twice a year for one week each trip; 2) Improve/increase access to water in Spinifex Country by renovating existing tanks (6) & building 3 new tanks.

Indicators 1) Participation in return to country trips; 2) shed tank number and status; 3) # women participating in SLM activities.

Strategies	Actions	Tracking			Progress Details Jan-Jun 2017	Jul-Dec 16 implemented?	Recommendations Jan-Jun 17
		Jan-Jun 16	Jul-Dec 16	Jan-Jun 17			
Men and Women Trip - Return to Country	Return to Country Trips with Tjilpi / minyma pampa and young	On-Track	On-Track	on-track	2 large trips - chopper and Southern Ranger Forum	✓	Support the 'Return to Spinifex Lands' trip in October 17
	Map and record cultural sites and stories	Minor Issues	Minor Issues	minor issues	Twigg data still not available. New data collected during 2017 chopper surveys.		PNAC staff do training to use latest Ara Iritja software and be able to load Spinifex data into this data base
	Establish signs on tanks and nearby kapi sites to pass on stories	Minor Issues	Minor Issues	minor issues	No progress		Discuss this with Rangers and PNAC Board - necessary?
	After working in country clean up, cover fire and leave country clean	Minor Issues	Minor Issues	on-track	Really good effort by all at recent community events	✓	Continue encouraging community to follow the Rangers example
	Work with school to make sure children can come out on country with men and women to learn as part of school program (Bush Rangers)	On-Track	On-Track	on-track	Many trips, working well. Several meetings with Chris and Ben Deslandes re: implementing the CSIRO two-way learning materials	✓	Continue as planned
Maintain Shed Tanks	Check and maintain shed tanks regularly	New	On-Track	on-track	XXX/20 shed tanks checked	✓	Find resources to make a new tank near the dog fence
More roads to get access to country		Minor Issues	Minor Issues	minor issues	More community discussion required. More roads means more chance of buffel grass to spread.		Find resources for a chopper for burning and site visits in 2018
Women recording and using bush plants (food and medicine)	Women's trips with intergenerational involvement to tell women's stories	On-Track	On-Track	on-track	Chopper trip and Bushrangers	✓	Support the 2017 Women's Camp.
	Develop a Flora Baseline through Cultural and Biological Surveys	On-Track	On-Track	minor issues	No progress locally	✓	Support the 2017 Bush Blitz in Mamungari Park
	Develop a bush plants (foods and medicines) garden at Tjuntjuntjara	On-Track	On-Track	on-track	Seedlings germinated at Sam's house	✓	Prepare buffel free areas for seedlings to plant near Art Centre and new HACC

5.4 HCP Plan Update Recommendations

Project Title: No change **Objective:** No change **Indicator:** No change **Activities:** No change

6.0 Kapi protection and maintenance

NEW OBJECTIVES:

- 1) Locate, record and manage Spinifex rock holes and soaks using traditional management techniques.
- 2) Return 2 rockholes to traditional management techniques – Panpara and Unburn and monitor impact on fauna and surrounding landscape.

2016 Summary

- 7 kapi sites checked on ground patrols, 53 checked by helicopter
- No sites required cleaning
- Pre-European management practices discussed and accepted by Spinifex Elders, learnings shared with surrounding groups.
- 8 activities, 160 indigenous people involved
- Ranger effort for Kapi management less than target, 4 days planned, 2 days spent.
- HCP planned Kapi Management activity 34% “On-track”, 33% minor issues, 33% abandoned.

NEW INDICATORS:

- 1) # of new rockholes/soaks recorded in SLM data base.
- 2) # rockholes/soaks checked and/or managed.
- 3) “cleaned” rock holes/ soaks are returned to traditional management techniques – refilled with debris.



Spinifex Elders welcoming participants at the inaugural Southern Rangers Forum to Ilkurlka Rockhole.

6.1 Progress Report: Jan-June 2017

INDICATOR PROGRESS

“Clean kapi – rock holes / soaks” - REWORDED

New Indicator: “cleaned” rock holes/ soaks are returned to traditional management techniques – refilled with debris.

- Traditional rock hole management information collated into short report and discussed with Spinifex Elders who support the return to traditional management techniques. Also presented as ‘food for thought’ to neighbouring groups at the Southern Ranger Forum.

New Indicator: # rockholes/soaks checked and/or managed.

- 3/5 priority kapi sites checked, clean; 7 other sites checked by ground and 53 by helicopter, all OK (Table 6, NB: kapi maps will not be presented in this report)

New Indicator: # of new rockholes/soaks recorded in SLM data base.

- 9 news sites re-discovered and catalogued in Spinifex GIS during helicopter surveys.

Table 6: Kapi checks at priority sites

Sites	# Visits	Status Jan-June	Note
Tjitjiti Soak	1	Checked	Checked in 2017
Tjintirrkarra RH	1	Checked	Checked in 2017
Panpara RH	3	Checked	Checked in 2017
Wayara RH	1	Checked	Checked in 2017
Kalkali RH	0	Not checked	Not checked in 2017

ACTIVITY PROGRESS - 8 activities, 160 people involved

Management: No cleaning has been required at rock holes visited. Refilling with debris is required at 2 rock holes.

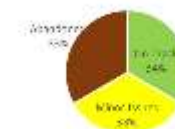
Protection: refilling with debris is expected to minimise the need for other protective options, e.g. spiders.

Access Management: no progress yet.

Monitoring: motion cameras to be established ASAP at the 2 rock holes required refilling to establish a baseline of fauna rock hole use. Monitoring of landscape condition around kapi not yet established at priority sites. To be done in conjunction with camel and visitor management projects.



Spinifex Elders and Rangers presenting the evidence they have discovered re: traditional rock hole management techniques to participants in the Southern Ranger Forum at Panpara Rockhole.



6.3 HCP Activity Tracking - Kapi

Project 6: Kapi protection & maintenance

Objectives Improve water quality at 5 monitoring sites (Tjitjidi Soak, Tjintirrkarra Rockhole, Panpara Rockhole, Wayara Rockhole, Kalkali Rockhole)

Indicators Clean kapi – rock holes / soaks

Strategies	Actions	Tracking			Progress Details Jan-Jun 2017	Jul-Dec 16 implemented?	Recommendations Jan-Jun 17
		Jan-Jun 16	Jul-Dec 16	Jan-Jun 17			
Spinifex people regularly visit and clean kapi places (rockholes and soaks)	Community discussions re: traditional rockhole management, re: Cane & Maurice info.	New	Minor Issues	on-track	Discussions at the Southern Ranger Forum and with Spinifex tjilpi. Outcome - start filling them back in.	✓	Investigate purchasing a Dingo (multi purpose equipment) to assist with filling in Panpara and Unburn rockholes.
	Establish monitoring sites	Minor Issues	Minor Issues	minor issues	No progress (discuss motion camera monitoring).		Get this done ASAP. Install motion cameras for at least 6 months prior to beginning to fill the rockholes.
	Clean main sites	On-Track	On-Track	on-track	10 checked from the ground, 53 checked by helicopter. 9 new sites recorded.		Reward to check and manage main rockholes appropriately
	Manage access from unauthorised visitors	On-Track	Minor Issues	minor issues	Ranger and tjilpi meeting on Serpentine Lakes Road re: important site east of Ilkurlka. Jimmy has discussed this with HEMA and it is technically possible.	✓	SLM to ID which sites they would like removed from HEMA and ExplorOz mapping services. Develop a site management plan based on tjilpi discussion
	Try camel exclusion approach not so visually intrusive as 'spiders'	Minor Issues	Minor Issues	abandoned	Abandon		
	Test rock spider at unobtrusive location	Minor Issues	Minor Issues	abandoned	Abandon		

6.4 HCP Plan Update Recommendations

Project Title: no change. **Objectives:** Reword 1) Locate, record and manage Spinifex rock holes and soaks using traditional management techniques; 2) Return 2 rockholes to traditional management techniques – Panpara and Unburn and monitor impact on fauna and surrounding landscape.

Indicators: New Indicators: 1) “cleaned” rock holes/ soaks are returned to traditional management techniques – refilled with debris; 2)# rockholes/soaks checked and/or managed; 3)# of new rockholes/soaks recorded in SLM data base. **Activities:** Reword ‘Clean main sites’ to ‘return main sites to traditional management’; Abandon camel exclusion and rock spiders; Add ‘Locate and monitor rockhole status’

7.0 Visitor Management and Cultural Awareness

OBJECTIVE: 1) Increased cultural awareness of non-Aboriginal people, 2) Improve management of cultural sites near public access areas across SLM managed country.

INDICATOR: 1) # of sites under appropriate access management, 2) # sites reopened after access is restricted/rehabilitated.

2016 Summary

- 1 Ranger Patrol through Mamungari Conservation Park, interacting with 2 groups of tourist
- No further progress on management of cultural sites near public access areas
- 3 activities, 75 indigenous people involved
- Ranger effort for Visitor Management below 2017 ½ yr target, re-allocation of time to be considered next review.
- HCP planned Return to Country activity 43% "On-track", 57% scheduled.



Participants in Visitor Management training, Southern Rangers Forum, Ilkurlka June 2017



7.1 Progress Report: Jan-June 2017

INDICATOR PROGRESS

of sites under appropriate access management

- 0 sites under appropriate access management

sites reopened after access is restricted/ rehabilitated

- 1 site in Neale's Junction closed in previous reporting period Jan-Jun 2016, but subsequently re-opened. No further action until restriction/rehabilitation techniques reviewed and improved.



Bush Tucker....the 'fringe benefits' of Ranger Patrols!

ACTIVITY PROGRESS – 3 activities, 75 people involved

Compliance Ranger Patrols: 1 Ranger Patrol conducted through Mamungari Conservation Park.

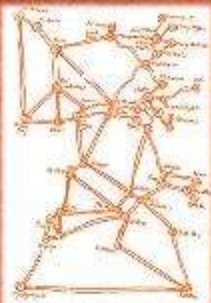
Management plans: Mamungari Co-management Board meeting in park to assess/approve the 5 proposed permanent camp sites was still postponed. No work yet on plans for Spinifex or Pilki sites.

Site management: Site restriction/rehabilitation techniques review not conducted yet.

Visitor interactions: 2 tourists were interviewed in Mamungari and 1 tourist had no permits and was subsequently reported to DEWNR. SLM have developed an App to assist with permit checking in Mamungari. Tourist interaction was the focus of a training session at the Southern Rangers Forum at Ilkurlka. A new SLM poster has been placed in Ilkurlka Roadhouse.



The Rangers stopped and talked with this tourist in Mamungari – no permits!



Spinifex Healthy Country Plan 2016 Review



PROJECT 2: WARU PALYA (good fire)
 Objectives: increase the use of fire management (based on traditional knowledge) in Spinifex Lands
 Indicator: location, size, season, intensity of waru
 Snapshot of 2016 Results

- 1,692 ha burnt from aircraft and 34 ha burnt from ground for ecological patch burning with DPAW
- 72 ha of infested nature protected area burnt in Ilkurlka with DPAW and DIFS.

PROJECT 3: CAMEL MANAGEMENT
 Objectives: 1) remove as many camels as possible from Spinifex Lands by 2020 2) in 2020 there is less impact from camel impact at priority sites than in 2016.
 Indicator: 1) # camels observed and culled in land managed by SLM; 2) camel impact at priority sites.
 Snapshot of 2016 Results

- 1,307 km of tracks patrolled in Spinifex and surrounding lands.
- 142 camels culled and camel impact temporarily reduced on 465,657 ha of land.

PROJECT 1: BUFFEL GRASS ERADICATION
 Objectives: 1) remove 10 years buffel grass in Spinifex Lands
 Indicator: distribution of buffel grass
 Snapshot of 2016 Results

- 2,500 km tracks checked and mapped
- 5000 ha of land around townships mapped with a drone
- 22.47 ha sprayed with first application of glyphosate, successful in the field

TARGETS – good for country

threatened species, important places, kapi (water), healthy country, knowledge, community infrastructure, kuka (meat food), mai (plant food)

SPINIFEX VISION

Spinifex People are keeping culture strong, elders are respected and younger people are learning from them; men and women, young and old are on country keeping it healthy, with stories, plants and animals all still there for all future Spinifex People

PROJECT 3: POINT MANAGEMENT
 Objectives: 1) collaborate with DPAW and DEWNR on surrounding reserves and National Parks (NP) 2) build a network of points to Parks and Reserves 3) a cultural learning and management activities 4) MCO for point management established with DPAW & Mamungari contract out of our connectivity.
 Snapshot of 2016 Results

- Participated in various events including: 1) North Flinders Ranges NP 2) Mamungari Conservation Park (M) 3) Mamungari Conservation Park (M)
- patrol work: buffel grass, camel and rockhole management, camp site mapping and visitor compliance checks.

PROJECT 4: PROJECT MANAGEMENT & CAPACITY BUILDING
 Objectives: 1) project to meet all targets and new rural facility; 2) project and complete implementation of Core & Mgmt; 3) office, storage and accommodation secured for employees.
 Indicators: 1) implementation of Healthy Country plan; 2) progress reports against budgets and work programs.
 Snapshot of 2016 Results

- 2 Healthy Country Plan reviews completed
- Rangers collected data on all work and fuel use
- Work Health & Safety program continued to be implemented
- Training in burning, mapping, survey, national collection
- Fee for service – seed collection, traditional burning, site mapping
- 2 Ranger Exchange – Birriburni (buffel grass), Kak Valley (malles) will

THREATS – bad for country

buffel grass, camels, bad waru (fire), introduced predators, loss of traditional knowledge, hunting the wrong way, not being able to visit country, people not coming out and learning about country, non-Spinifex people doing the wrong thing

PROJECT 5: RETURN TO COUNTRY
 Objectives: 1) Spinifex people have the resources to be able to visit country together at least twice a year 2) improve access to water in Spinifex Lands by building and maintaining dead tanks.
 Indicators: 1) part of nation in return to country; 2) number and status of dead tanks; 3) # women involved in VSA activities.
 Snapshot of 2016 Results

- 9 Bushfire with Tjuntjuntj and Tjuntj Community Services
- 15/18 dead tanks checked and maintained
- 11 women participating in the new Spinifex Waru's Ranges

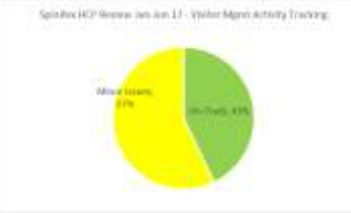
PROJECT 6: KAPI PROTECTION & MAINTENANCE
 Objectives: Improve water quality at 5 monitor sites – Tjintji, Tjintirikara, Panpara, Wayara and Kalkali.
 Indicator: Clean kapi – no faeces and soot.
 Snapshot of 2016 Results

- 10 kapi sites checked on ranger patrols.
- Major clean up at Panpara to remove 2 dead camels and 1000 rockholes in good condition

PROJECT 7: VISITOR MANAGEMENT & CULTURAL AWARENESS
 Objectives: 1) increase cultural awareness of non-Aboriginal people; 2) improve management of cultural sites near public access areas across SLM country.
 Indicator: 1) # of sites under appropriate access management; 2) # sites reopened after access restricted/rehabilitated.
 Snapshot of 2016 Results

- 118 informal tourist camp sites mapped along 395 km of Anne Beadell Hwy and 5 chosen for development into official camp sites.
- Access to 1 important cultural site closed, but re-opened by tourists.

SLM Poster to raise land management awareness of visitors to Spinifex Lands, Ilkurlka Roadhouse



7.3 HCP Activity Tracking – Visitor Management

Project 7: Visitor Management and Cultural Awareness

- Objectives** 1) Increased cultural awareness of non-Aboriginal people; 2) Improve management of cultural sites near public access areas across SLM managed
- Indicators** 1) # of sites under appropriate access management; 2) # sites reopened after access is restricted/ rehabilitated

Strategies	Actions	Tracking			Progress Details Jan-Jun 2017	Jul-Dec 16 implemented?	Recommendations Jan-Jun 17
		Jan-Jun 16	Jul-Dec 16	Jan-Jun 17			
Managing Visitors in Spinifex Country	Ranger Patrols across all Spinifex Country	On-Track	On-Track	on-track	25 Patrols conducted	✓	Continue with aim to achieve 1 long patrol and 3 short patrols per month, for 9 months/year
	Ranger Compliance Training for working with tourists	On-Track	On-Track	on-track	Men and women participated in Visitor Management Course at Southern Rangers Forum	✓	Create in-house refresher training prior to Mamungari trips, inc. app use
	Monitor use of the Serpentine Lakes Road (Anne Beadell Highway), including un-authorised camping and camp fires	On-Track	On-Track	minor issues	Ilkurlka to Neale's Junction patrolled twice - in May and June. Ilkurlka to WA Border and Mamungari, and Rodinia patrolled June	✓	Continue as planned
	Monitor activity outside Serpentine Lakes Road (Anne Beadell Highway) road reserve (seasonal patrols of significant and sensitive sites)	On-Track	On-Track	minor issues	Rangers regularly visit Spinifex, Pilki and southern Mamungari sites. Many inaccessible sites checked during chopper survey. Neale's Breakaway has been removed from Hema	✓	Continue as planned
	Develop Cultural Site Access Management Plan	New	Scheduled	minor issues	Ilkurlka to Neale's Junction and Connie Sue to Black Tank not mapped. No progress yet on Cultural Site Management Plan		By the end of 2017 map informal camping sites Ilkurlka to Neale's Junction and Connie Sue to Black Tank; ID cultural sites requiring access mgmt. and informal camp sites requiring
	Implement Cultural Site Access Management Plan, including 'positive language' signage as required along Hwy and access	New	Scheduled	minor issues	No progress yet		Begin plan implementation in 2018.
	Provide cultural awareness presentations at Ilkurlka Roadhouse	On-Track	Scheduled	on-track	New Spinifex Ranger poster in roadhouse and Rangers interacting with tourists each time we visit		Participate when opportunities arise.

7.4 HCP Plan Update Recommendations

Project Title: No change. **Objectives:** No change. **Indicators:** No change. **Activities:** No change.

8.0 Joint Management:

OBJECTIVE: Work co-operatively with DPaW and DEWNR on surrounding reserves and Spinifex and Pilki country.

INDICATORS: 1) # of Ranger Patrols to Parks and Reserves; 2) # of joint training and management activities; 3) MOU for Joint Management established with DPaW; 4) Mamungari Conservation Park management contract outcomes met annually.

2016 Summary

- Rangers patrolled Great Victoria Desert Nature Reserve 25 times, Neale's Junction Nature Reserve 2 times and Mamungari Conservation Park 4 times.
- Patrols consisted of fire buffel, camel and kapi management.
- Working with DPaW on studying historic Spinifex burn patterns and DEWNR on the Southern Ranger Forum and Mamungari Bush Blitz
- 3 activities, 7 indigenous people involved
- Ranger effort slightly below target
- HCP planned Joint Management activity 100% "On-track"



SLM, Oak Valley and Bush Blitz representatives, planning for the 2017 Bush Blitz in Mamungari Conservation Park, SA



DEWNR Park Rangers sharing camel management experiences at the Southern Ranger Forum, Ilkurlka June 2017

8.1 Progress Report: Jan-June 2017

INDICATOR PROGRESS

"# of Ranger Patrols to Parks and Reserves"

- 25 Ranger Patrols. Most surrounding reserves patrolled, GVD NR (25), Mamungari CP (4), Neale's Junction NR (2), Plumridge Lakes NR (0) (Table 7, Map 5)

"# of joint training and management activities"

- 1 – DEWNR supported the Southern Rangers Forum

"MOU for Joint Management established with DPaW"

- No progress.

"Mamungari Conservation Park management contract outcomes met annually"

- Outcomes met, new contract signed.

ACTIVITY PROGRESS – 3 activities, 7 people involved

DPaW/DEWNR meetings: SLM staff worked from the DPaW Kalgoorlie Office for 1 week in February, met with Stephen van Leeuwin in Perth re: joint seed ecology research. Attended 1 Mamungari meeting via Skype. Interviewed Spinifex Elders to provide fire history information to Neil Burrows for Spinifex fire study.

Biodiversity surveys: met with Bush Blitz in Mamungari re: surveys scheduled for September.

Monitoring regional reserves: Spinifex Rangers patrolled Mamungari Conservation Park, Neale's Junction Regional Reserve and Great Victoria Desert Regional Reserve. Patrol activities included burning, buffel grass and camel mapping and management.

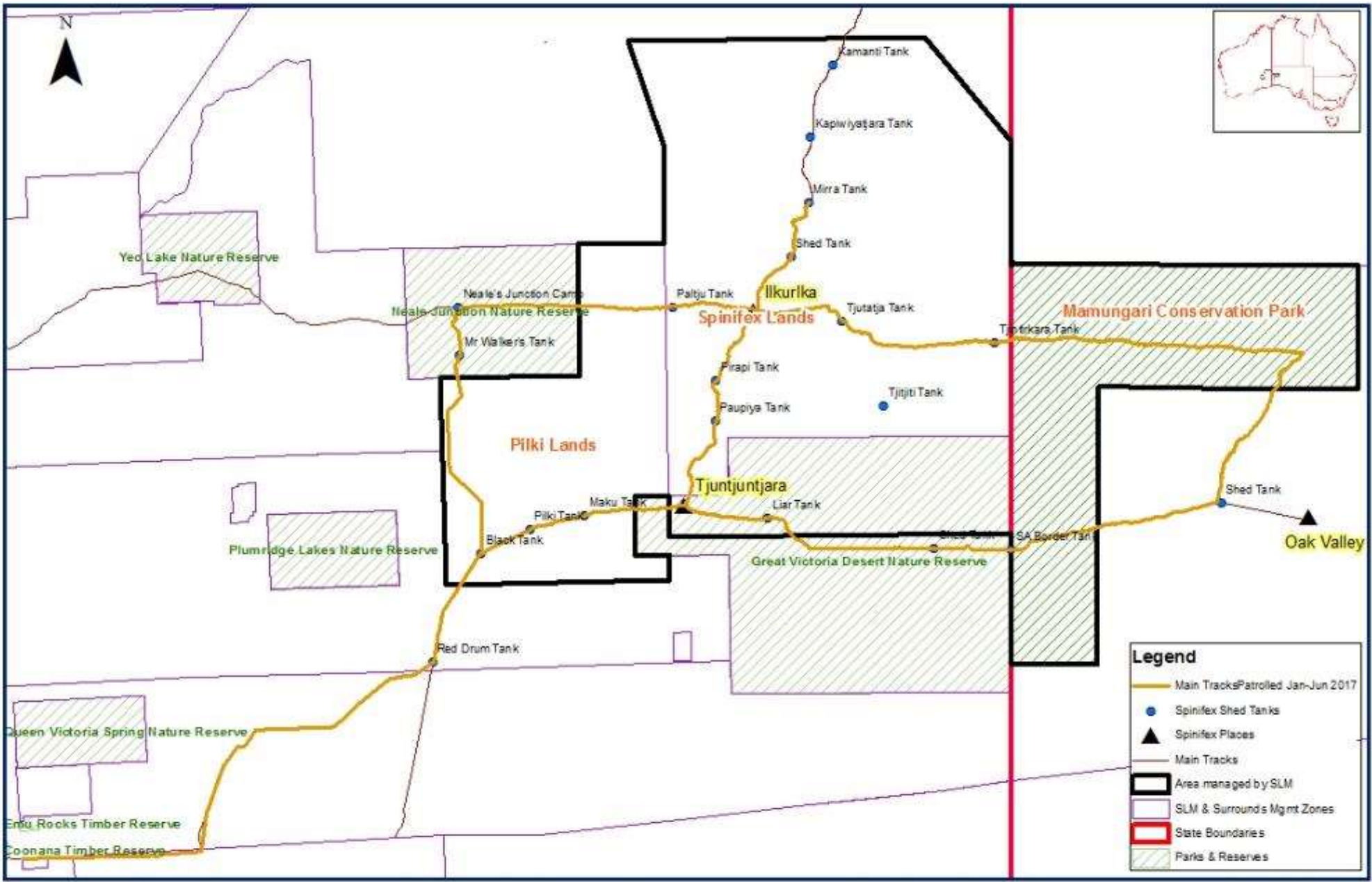
Land tenure: submitted to state parliament

Table 7: Ranger Patrols to Parks & Reserves, Jan-Dec 2017

Area Patrolled	# Patrols
Spinifex Lands	25
Pilki Lands	14
Mamungari Conservation Park	4
Great Victoria Desert Nature Reserve	6
Neale Junction Nature Reserve	2
Plumridge Lakes Nature Reserve	0
Cundeelee Mission	0
Yakadunyah	0
Coonana Community	0
Tropicana Gold Mine	0
Lost Sands Exploration Lease	0
Maralinga Tjarutja Lands, inc Oak Valley	0
Other	3



Interviewing Spinifex Elders about historic fire management, Tjuntjuntjara, March 2017

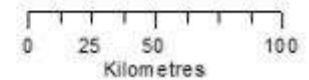


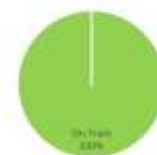
Legend

- Main Tracks Patrolled Jan-Jun 2017
- Spinifex Shed Tanks
- Spinifex Places
- Main Tracks
- Area managed by SLM
- SLM & Surrounds Mgmt Zones
- State Boundaries
- Parks & Reserves

Date: 25/08/2017
 Drawn: SLM
 Data Source: Spinifex LM GIS
 Coordinate System: GDA 1994 MGA Zone 52

SLM Ranger Patrols
NB: only main tracks shown here





8.2 HCP Activity Tracking – Joint Management

Project 8: Joint Management

Objectives

Work cooperatively with DPaW and DEWNR on surrounding reserves and Spinifex and Pilki country.

Indicators

1) # of Ranger Patrols to Parks and Reserves; 2) # of joint training and management activities; 3) MOU for Joint Management established with DPaW; 4) Mamungari Conservation Park management contract outcomes met annually.

Strategies	Actions	Tracking			Progress Details Jan-Jun 2017	Jul-Dec '16 implemented?	Recommendations Jan-Jun 17
		Jan-Jun '16	Jul-Dec '16	Jan-Jun '17			
Joint Management	Regular meetings with DPaW and Mamungari Co-management Board to guide Joint Management, including MOU's	Minor Issues	On-Track	on-track	Worked from DPaW office in February (while road closed), met with Stephen van L in Perth, started SOW for Neale's Junction camp maintenance. Attended 1 Mamungari meeting in Feb (via Skype)	✓	Meet with Nigel Wessels in September re:MOU for GVD Nature Reserve
	Joint fire management activities with DPaW	On-Track	On-Track	on-track	Planned for August		Postponed until 2017. Invite DPaW to participate in Spinifex waru wangka in Feb 2018
	Biodiversity surveys (flora and fauna)	On-Track	Scheduled	on-track	Rangers supported planning for Bush Blitz in Mamungari in September	✓	Participate in Bush Blitz in 2017
	Patrol regional reserves adjacent to Spinifex and Pilki Country, including buffel, camel and visitor management	On-Track	On-Track	on-track	25 Ranger patrols, most surrounding reserves patrolled, GVD NR (25), Mamungari CP (4), Neale's Junction NR (2), Plumridge Lakes NR (0)	✓	Continue with minimum # planned visits: GVD NR (multiple), Mamungari (2), Neale's Junction (1), Plumridge Lakes (1), Cundeelee (1), Coonana (1)
	Determine obstacles to resolving tenure issues and address	On-Track	On-Track	on-track	Ongoing	✓	No further action required from SLM

8.4 HCP Plan Update Recommendations

Project Title: no edits Objective: no edits Indicator: no edits Activities: no edits

9.0 Introduced predator management

OBJECTIVE: Remove as many introduced predators as possible, where possible

INDICATOR: Distribution and abundance of cats and foxes

2016 Summary

- No work scheduled for this project in reporting period, but Nganamara Long Walk Surveys continued, active nganamara mound monitored, Elders interviewed re: historic nganamara sitings.
- Predator control not currently considered effective for rangeland Nganamara populations
- 5 activities, 75 indigenous people involved
- Ranger effort for Introduced Predator Management exceeds 2017 ½ yr target. Re-allocation of time to include Women's Rangers activities to be considered next review.
- HCP planned Introduced Predator Management activity 29% "On-track", 71% "Minor Issues"



Nganamara courtship dances caught on SLM motion cameras near Ilkurlka, May 2017

9.1 Progress Report: Jan-June 2017 - Introduced Predators

INDICATOR PROGRESS

“Distribution and abundance of cats and foxes”

12 cat and 5 fox sign recorded on Long Walk Surveys. 2 foxes shot.

ACTIVITY PROGRESS - 5 activities, 75 people involved

Native threatened fauna baseline surveys: Active mound found and monitored with motion cameras. 18.2 km of Nganamara Long Walk surveys conducted in Spinifex and Mamumgari – 0 Nganamara, 12 cat and 5 fox sign. Interviews conducted with Spinifex Elders and 5 new areas ID'd where nganamara were seen in the past – not investigated yet (Map 6). Draft nganamara habitat areas ID'd for fire planning.

Control at threatened species sites: GVD Partnership have included a review of the effectiveness of control methods in the GVD Plan and there is potential to submit a project to the GVDT. NB: consultation with Dr Joe Benshemesh (National Malleefowl Program) suggests that predator control at/near Nganamara populations in rangelands is ineffective. No targeted control work to happen until there is expert consensus on effectiveness and method.

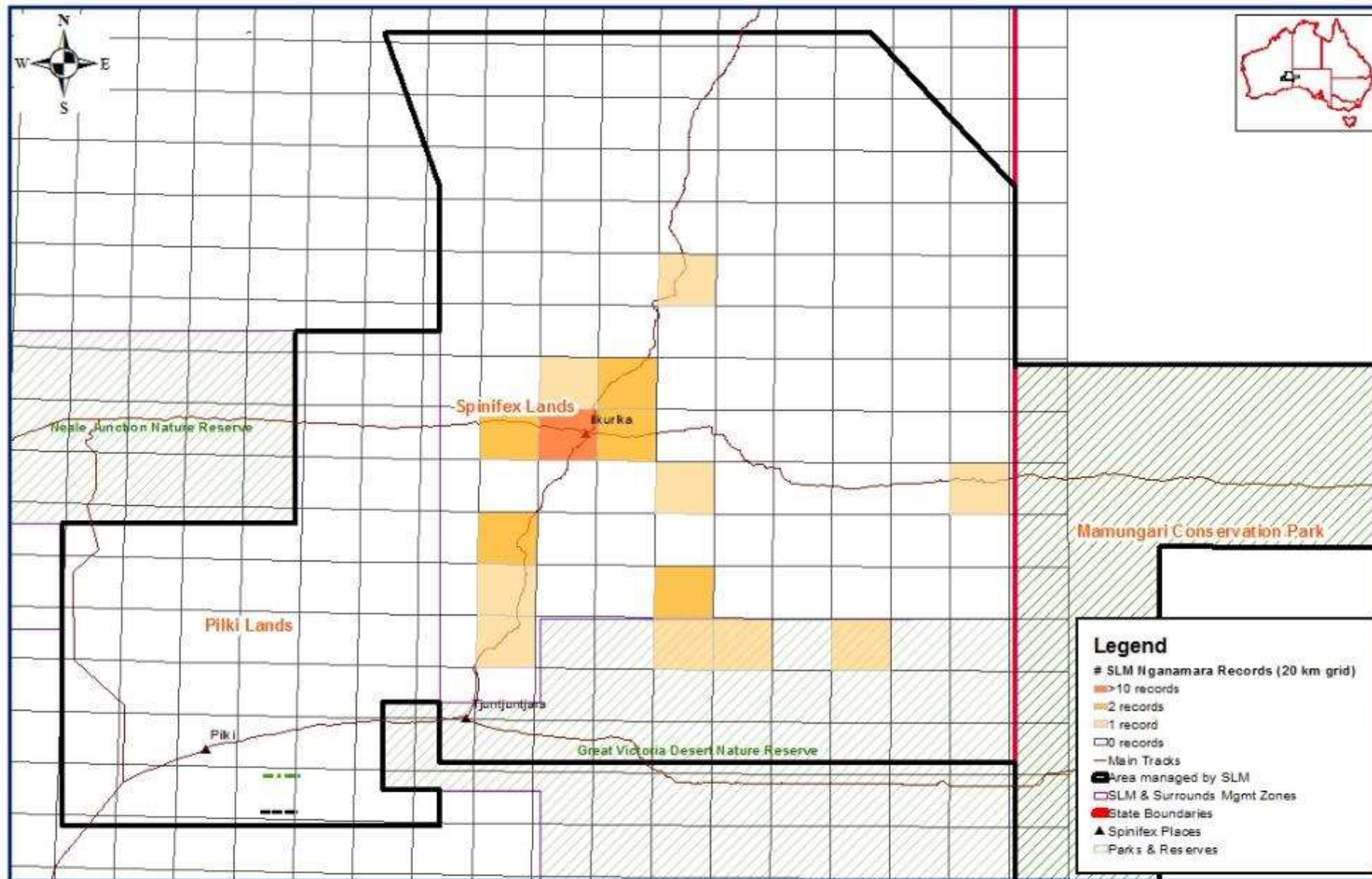
Opportunistic control: 2 foxes shot near Yackadunyah



1 of 2 foxes shot near Yackadunyah, May 2017



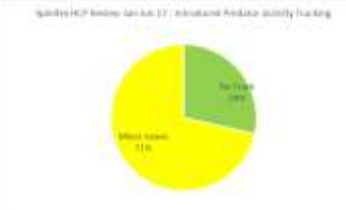
Nganamara courtship dances caught on SLM motion cameras near Ilkurlka, May 2017



Date: 26/09/2017
 Drawn: SLM
 Data Source: Spinifex LII GIS
 Coordinate System: GCS GDA 1994

Density of SLM Ngnanamara Sign Observations, EOFY 2017
 (not all locations have been investigated within the last 2 yrs)





9.2 HCP Activity Tracking – Introduced Predators

Project 9: Introduced Predator Management

Objectives Remove as many introduced predators as possible, where possible

Indicators Distribution and abundance of cats and foxes

Strategies	Actions	Tracking			Progress Details Jan-Jun 2017	Jul-Dec 16 implemented?	Recommendations Jan-Jun 17
		Jan-Jun 16	Jul-Dec 16	Jan-Jun 17			
Trapping and shooting introduced predators (cats / foxes) at hotspots	Native threatened fauna baseline surveys	On-Track	On-Track	on-track	7 long walk surveys conducted. Sandhill Dunnart project to be contracted next financial year.		Complete Nganamara Long Walk surveys and mound surveys in Spinifex each year. Participate in GVDT SHD project, if time allows.
	Track-based monitoring to record cat and fox distribution and abundance	Minor Issues	Minor Issues	minor issues	2 sets of existing TBM quads not monitored yet. Pending review of purpose for each quad and how this work may/may not fit into larger GVD partnership plans		This activity is on the back burner until we get time to review the purpose for each quad
	Targeted control at threatened species sites	Minor Issues	Minor Issues	minor issues	Project submitted to Threatened Species Fund through RNRM		Postponed, pending outcomes of GVD partnership project studies
	Integrated management of cats and foxes	Minor Issues	Minor Issues	minor issues	Activity not scheduled yet		Postponed, pending outcomes of GVD partnership project studies
	Cat and Fox shooting - Opportunistic	Minor Issues	Minor Issues	on-track	2 foxes shot near Yackadunyah. Foxes caught on camera at Ilkurlka nganamara mound	✓	Continue to shoot if seen
	Cat and Fox baiting	Minor Issues	Minor Issues	minor issues	Activity not scheduled yet		Postponed, pending outcomes of GVD partnership project studies
	Cat Trapping	Minor Issues	Minor Issues	minor issues	Activity not scheduled yet		Postponed, pending outcomes of GVD partnership project studies

9.4 HCP Plan Update Recommendations

Project Title: no change. **Objectives:** no change. **Indicators:** no change. **Activities:** no change

10.0 Community Support

OBJECTIVE: Nil

INDICATOR: Nil

2017 Jan-June Summary

- PNAC AGM General Meeting organised and supported.
- Community Support not originally identified as a project in HCP. Allocate time to these activities in end of 2017 plan review.
- 5 activities, 149 indigenous people involved.
- 3 days of Ranger effort spent on 'Community Support', down from 5 days last reporting period.



Kaltupakal General Meeting at Pilki Meeting Place, supported by SLM



Spinifex Rangers supporting Close the Gap Day activities at Tjuntjuntjara Remote Community School

10.1 Progress Report: Jan-June 2017

INDICATOR PROGRESS

“No indicator” No activities were scheduled.

ACTIVITY PROGRESS – 5 activities, 149 people involved

Community Awareness of LM issues

- Return to Country week at Ilkurlka
- Return to Country week community movie night at Tjuntjuntjara Remote Community School
- Spinifex Land Management Facebook Site
- Photo display board in PTAC office
- Participated in NITV Ranger movie at Ilkurlka, scheduled to show Oct 17

Cultural Obligations

- Support for cultural business

Coordinating Community Events

- PNAC & Pilki General Meetings

Maintaining Community Assets

- PTAC – welding trailer
- School – welding roo bar



NG Media capturing buffel grass footage for the Spinifex Ranger doco to be shown on NITV in October



Ranger Patrols

Table 8: Ranger Patrol Statistics

Management Area	Total Mapped Tracks (km) <i>Source: SLM GIS</i>	Distance Patrolled by Spinifex Rangers (km)					
		<i>NB: each track is only recorded once, even though some tracks are travelled more than once</i>					
		2015	2016		2017		TOTAL
		Jun-Dec	Jan-Jun	Jun-Dec	Jan June	Jun-Dec	
Cundeelee Reserve	26.6			26.6			26.6
GVD Nature Reserve	214	85.20	214	209.7	191.4		700.3
Laverton Shire (out of SLM Areas)							0
Mamungari Cons Park	283		283	52	251.6		586.6
Maralinga Tjarutja Lands	149.2			70.6	149.2		219.8
Menzies Shire (out of SLM Areas)	321.9	75.90	75.9	313.1	132.1		597
Nadju Lands	74.5			74.5	74.5		149
Neales Junction Reserve	117.7		117.7	117.7	117.7		353.1
Ngaanyatjarra Lands							0
Nullarbor National Park							0
Nullarbor Regional Research							0
Out of SLM Areas	242			242.2	209.9		452.1
Pilki Lands	474.5	164.50	445.5	368.9	352		1330.9
Plumridge Lakes Reserve	99			99			99
Queen Victoria Springs Nature Reserve				103			103
Spinifex & GVD Nature Reserve	292.7	153.60	292.7	217.8	223.9		888
Spinifex Lands	1010	102.40	582.7	684.1	660.5		2029.7
Tropicana Mine Lease	41.8			30.7			30.7
Yackadunyah Reserve	19	19	19	19	19		76
Yellabinna Regional Reserve							0
TOTAL	3365.9	600.6	2030.5	2628.9	2381.8	0	7641.8
Project Funding							
Fee for Service Funding							

Planned vs Actual Work Effort

Chart 3: Planned vs actual work effort, Jan-June 2017

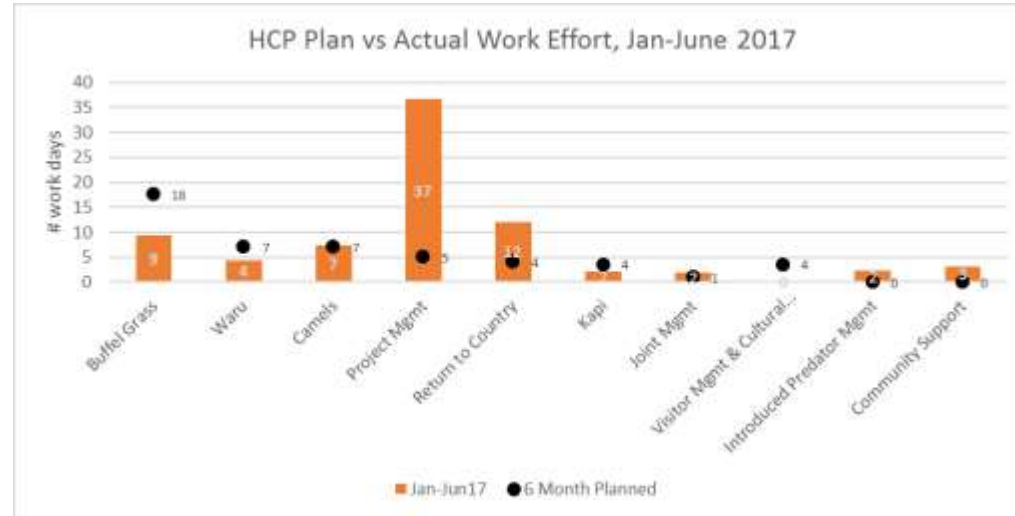
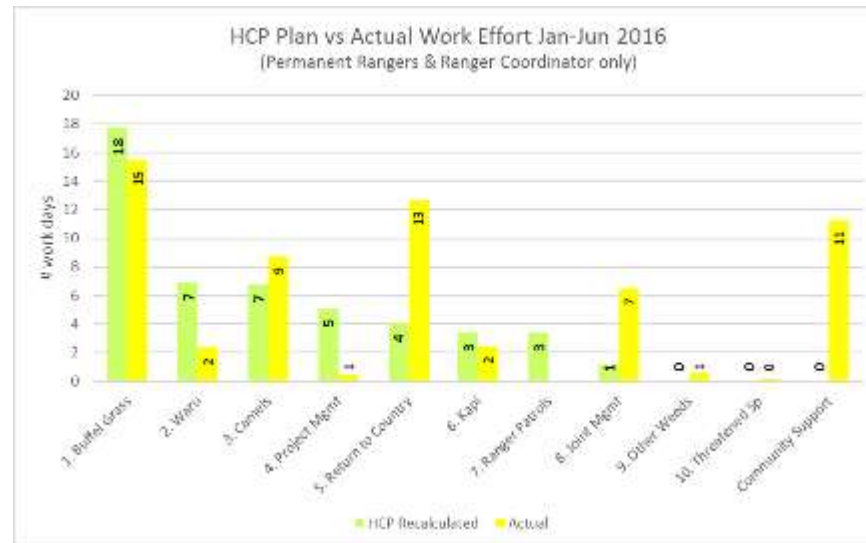


Chart 4: : Planned vs actual work effort, Jan-June 2016



Planned vs Actual Work Effort

Chart 5: SLM HCP participation numbers, Jan-June 2017

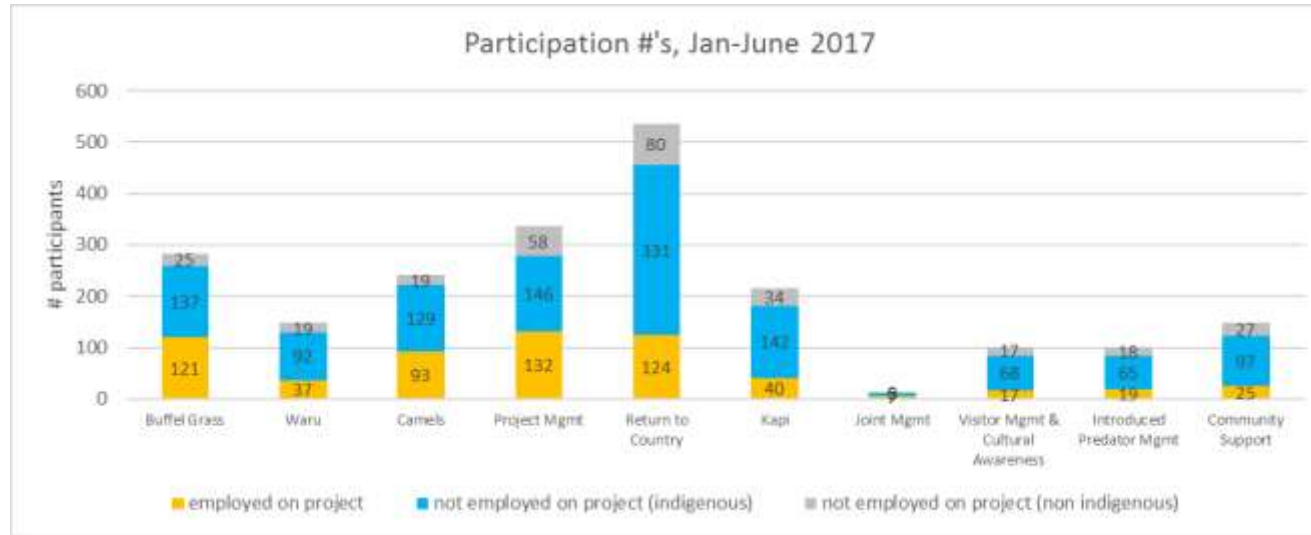


Chart 6: SLM HCP participation numbers, Jan-June 2016

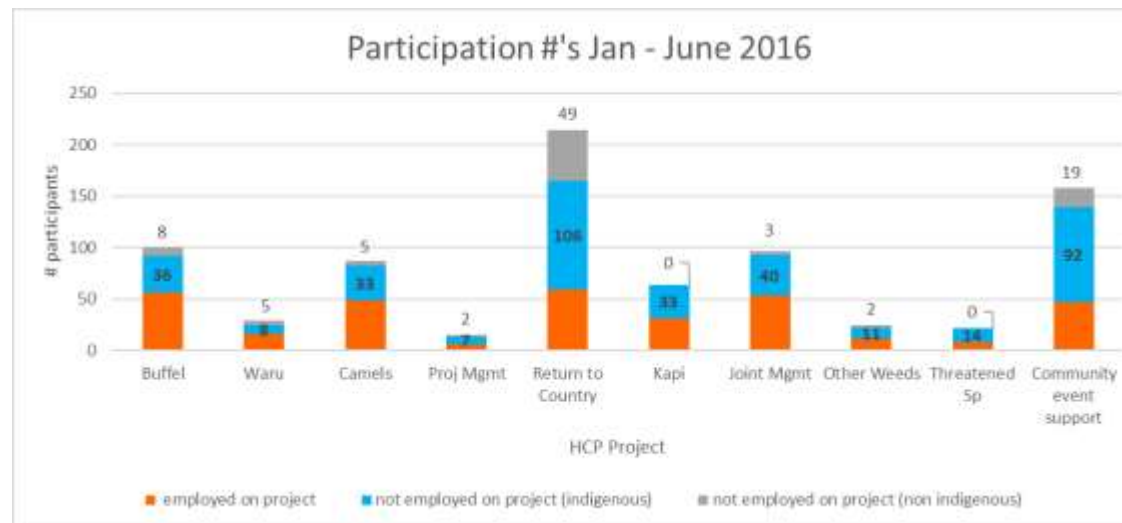


Chart 7: Breakdown of types of people participating in SLM HCP events

