

ANNUAL REPORT Number 3

CO482/002/A

Claire and James DENNIS

February.2017



Landowner(s): Bleak House Pty Ltd (Claire and James Dennis)

Site Reference: TFN-C0482/002/A

Year	Site and Zone(s) (e.g. 001/A)	Management Actions to be completed (e.g. These actions are found listed in the Offset Management Plan appended to your Deed of Covenant)	Timing (What time of year?)	Description of Action (e.g. What method of control did you use?)	Supporting Documents (e.g. photos, receipts)	Comments and Observations (Have you noticed any changes in the vegetation, fauna or other features of the site e.g. have you found new species, have the weed/pest increased/ decreased/ remained the same?)
1-10	002/A	Stock exclusion: Monitor and maintain fencing	Continuous	The broader paddock has stock proof fencing which is maintained with monitoring and repairing if necessary.		The grazing cells which have been established with new ringlock fencing have been maintained.
		Stock exclusion: Ensure all stock remains absent from offset site (unless required as part of the ecological management of the site and prior consent has been obtained from Trust for Nature)	Continuous	A Letter of Approval from Trust for Nature allows grazing of sheep in the offset area at times indicated by the OMP. A second letter of Approval from Trust for Nature allows grazing if necessary during spring to reduce the growth of the annual weeds.	Copy of letters attached.	Since the last report there have been 3 pulse grazes in the offset area, February 2016, July 2016 and January 2017. We hoped we could graze in the spring to reduce the annual weed growth but the soil was very wet and soft from a wet winter and spring so we decided against grazing until the soil hardened.
		Woody weed control: There are currently no woody weeds within the offset area. Maintain the absence of high threat woody weeds	Continuous	There is constant monitoring for woody weeds in the area whenever any work or surveys are carried out.		No woody weeds have been found in the area. A seedling wild prunus (seed probably dropped by birds) adjacent to the area was cut and the stump painted with herbicide.
		Brown-top Bent: Burn standing dead material. New growth controlled with pulse grazing with sheep to prevent seed set and herbicide application. Cover at inception: 10%	July-November	Using the results of weed mapping of the area in December 2014 we are able to identify levels of weediness. Since the recovery from the burn in February 2014 grazing has been used to reduce the growth of the Bent Grass,	Photo point monitoring.	Although the burn reduced the biomass of the Brown Top Bent it has re-grown but with more native species amongst it, in particular Wallaby and other native grasses. Grazing has helped to keep the biomass at a lower level. Doing

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				three pulses within the last 12 months. Some herbicide application has been applied close to photopoints.		some herbicide control close to photo points will enable closer monitoring of this and easier to repeat the herbicide application.
		Sweet Vernal-grass: Controlled pulse grazing by sheep to prevent seed set. Spot spraying appropriate herbicide to prevent seeding. Cover at inception: 1-5%	July- November	Using the results of weed mapping of the area in December 2014 we are able to identify levels of weediness. Since the recovery from the burn in February 2014 grazing has been used to reduce the growth of the Sweet Vernal Grass, three pulses within the last 12 months.	Photos of photo point monitoring.	In this area there is not a high occurrence of Sweet Vernal. There has not been any increase in the area of this grass over the twelve months.
		Oats: Controlled pulse grazing by sheep to prevent seed set. Spot spraying appropriate herbicide to prevent seeding. Cover at inception: 1-5%	July- November	Using the results of weed mapping of the area in December 2014 we are able to identify levels of weediness. Since the recovery from the burn in February 2014 grazing has been used to reduce the growth of the Wild Oats, three pulses within the last 12 months.	Photo point monitoring.	There is little change in the area covered by the Wild Oats. Although the height of the vegetation in the photo point in the badly affected Wild Oats area reduced from 2014 to 2015 it had increased again in 2016. This was most probably from the favourable spring growing season with plenty of rain. The grazing in the spring to reduce the annual weed growth did not occur due to the wet conditions.

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1-10	002/A	Rye-grass: Controlled pulse grazing by sheep to prevent seed set. Spot spraying appropriate herbicide to prevent seeding. Cover at inception: 1-5%	July-November	Using the results of weed mapping of the area in December 2014 we are able to identify levels of weediness. Since the recovery from the burn in February 2014 grazing has been used to reduce the growth of the Rye Grass, three pulses within the last 12 months.	Photo point monitoring photos.	There is little change in the area of Rye Grass. There is very little in this offset area.
		Toowoomba Canary-grass: Spot spraying appropriate herbicide. Cover at inception: 1-5%	Early Spring	Using the results of weed mapping of the area in December 2014 we are able to identify levels of weediness. Since the recovery from the burn in February 2014 grazing has been used to reduce the growth of the Phalaris, three pulses within the last 12 months. Herbicide application with spot spraying was used on some areas.	Photo point monitoring photos.	There has been a slight decrease in the amount of phalaris in the area. This is due to the phalaris tussocks being killed by the herbicide treatment. In some areas where the bulky phalaris tussocks have been sprayed these have died but smaller single plants have appeared which will require weed wiping or a different control method to spraying to minimise off target damage.
		Salsify: Spot spraying appropriate herbicide. Cover at inception: <1%	Early Spring	Using the results of weed mapping of the area in December 2014 we are able to identify levels of weediness. Since the recovery from the burn in February 2014 grazing has been used to reduce the growth of the Salsify, three pulses within the last 12 months. Some areas of Salsify were cut, painted with herbicide or pulled out, bagged and removed from	Photo point monitoring photos	The areas of Salsify that were treated have responded well. Spraying of the younger plant is successful and prevents flowering and seed set and can also be done at other times of the year rather than spring time.

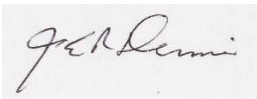
Year	Site and Zone(s) (e.g. 001/A)	Management Actions to be completed (e.g. These actions are found listed in the Offset Management Plan appended to your Deed of Covenant)	Timing (What time of year?)	Description of Action (e.g. What method of control did you use?)	Supporting Documents (e.g. photos, receipts)	Comments and Observations (Have you noticed any changes in the vegetation, fauna or other features of the site e.g. have you found new species, have the weed/pest increased/ decreased/ remained the same?)
				site. (If left on site the plant will continue to flower and set seed due to the large store of nutrients in its root.) If the plant had not elongated up to flower it was spot sprayed.		
		Spear Thistle: Spot spraying the appropriate herbicide to prevent flowering. Cover at inception: 1-5%	July- November	Using the results of weed mapping of the area in December 2014 we are able to identify levels of weediness. Since the recovery from the burn in February 2014 grazing has been used to reduce the growth of the Spear Thistle, three pulses within the last 12 months. Thistles have been hoed in autumn and spring and is ongoing whenever any work is done in the area.	Photo point monitoring photos.	It appears that the area of Thistles has reduced in the last 12 months but the whole area will be continually monitored and treated where necessary. Thistles continue to grow in the area germinating from the weed seed bank in the soil and from seed blown in from neighbouring paddocks.
		New and emerging weed control: Monitor for new and emerging weeds and eliminate any found.	Continuous	Continual monitoring for any new weeds is undertaken when other work is being done on site. The South African Weed Orchid was found in a few spots in the site in January 2015.		The areas where the South African Weed Orchid was found and removed have been carefully checked at various times and none has been seen in the area.
		Rabbit control: Monitor rabbit population and control by fumigating and hand-collapsing warrens and baiting or shooting.	Summer – Winter	Continual monitoring for rabbits is carried out whenever any work is done in the paddock.		No rabbits have been found on this site and there is no evidence of active rabbit burrows.

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1-10	002/A	Fox control: Monitor fox population and control by fumigating and hand-collapsing dens and baiting.	Summer/ Autumn	There is evidence of fox dens on the rocky barriers but these are not active at present. Continual monitoring is carried out whenever other work is done in the area.		There has been no need for control at the fox dens as yet but the area is monitored and baiting may be used if necessary.
		Hare control: Monitor hare population and control by baiting or shooting.	Summer – Winter	Continual monitoring is carried out whenever other work is done in the area.		No hares have been recorded.
		Other pest control: Monitor for new and emerging pest animal species and control any found	Continuous	Continual monitoring is carried out whenever other work is done in the area.		No new pest animals have been recorded.
		Biomass Management: Biomass management in the form of grazing will be conducted in consultation with Trust for Nature.	Late Summer- early Winter.	The broader paddock has stock proof fencing which has been maintained and repaired where necessary. Grazing cells have been established which allows pulse grazing of sheep.	Photo point monitoring,	There have been three pulse grazing cycles over the last 12 months. The wet winter and spring encouraged plant growth but we were unable to graze in the spring as the soil was wet and soft so did not use grazing to reduce biomass.
		Biomass Management: Biomass management in the form of burning will be conducted if required in consultation with Trust for Nature. No patch is to be burnt more than once every 3 years.	Once every 5 years in Autumn- Spring	Since the recovery from the burn in February 2014 pulse grazing has been used.	Table of average heights, %bare ground and	The photo point monitoring has recorded the amount of biomass present. For four photo points the records are for four years' worth of monitoring and for the total 15 for three years' worth. The 4

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					inter tussock space..	photo points with 4 years of results show that percentages of intertussock space, is still greater in 2016 than 2013, although slightly less than in 2014 and 2015. The average height of vegetation is lower in 2014 and 2015 but back to original height in 2016. Considering the 15 photo points over the three years intertussock space has decreased from 33% in 2014 after the burn to 26% in 2015 and 28% in 2016 while the average height is greater in 2016.

I hereby declare that the supplied information contained within this report is accurate and complies with all the reporting requirements under the Offset Management Plan.

Signed:

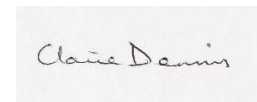


Name:

James E.R. Dennis

Date: 28th February 2017

Signed:



Name:

Claire Dennis

Date: 28th February 2017

Comparison of Averages from Photo Point Monitoring.

	Averages for 4 PPMs over 4 years %			
	2013	2014	2015	2016
Total Vegetation Cover	88%	79%	64%	88%
Average Height Vegetation	18cm	11cm	7cm	15cm
Total Native Vegetation Cover	46%	30%	40%	49%
Graminoids	29%	7%	22%	28%
Herbs	17%	23%	18%	21%
Total Weeds	42%	49%	24%	39%
Total Grasses	35%	36%	20%	29%
Grasses – perennial	28%	16%	9%	14%
Grasses – annual	7%	20%	11%	15%
Dicots	7%	13%	4%	10%
Inter-tussock space	20%	43%	43%	34%

This table compares the averages over the four photo points for which we have records for 4 years, the first being pre-burn and the others post burn.

The percentages of total vegetation had decreased from the first year for the next two years but increased again in 2016. The height of vegetation has also decreased and then increased in the last year. Over the four years 2015 was a much drier year and 2016 a wet winter and spring the native vegetation percentage had decreased from 2013 to 2015 and then increased again in 2016. The weeds have decreased over the time although again increased in 2016 but still less than the percentages in 2013 and 2014. The inter-tussock space has increased since 2013 although 2016 is less than 2015.

Averages for the 15 Photo Points over three years			
	2014	2015	2016
Total Vegetation Cover	77%	74%	88%
Average Height Vegetation cm	12	8	14.2
Total Native Vegetation Cover	36%	37%	48%
Graminoids	22%	26%	32%
Herbs	14%	11%	16%
Total Weeds	41%	37%	40%
Total Grasses	32%	30%	30%
Grasses – perennial	11%	9%	8%
Grasses – annual	21%	21%	21%
Dicots	9%	7%	10%
Inter-tussock space	33%	26%	28%

These averages show that over the three years post-burn the percentages of total vegetation have increased, native vegetation has also increased and the percentage of

weeds has remained similar. The inter-tussock space has increased slightly since the previous year but is still 5% less than the year post burn. The average height of vegetation has increased, probably caused by the wet winter and spring allowing more growth and preventing grazing in the spring.

Photo Point Monitoring.

A hot uncontrolled burn occurred across the offset site in late February 2014. In the spring of 2013, prior to the covenant and OMP being finalised, 15 photo points were set up using an old GPS unit to record the positions and marked with plastic whiskers. Unfortunately the GPS points were not accurate and could not be reproduced and the whiskers burnt in the fire. Four of the original points were marked with steel posts and these were found and used again in the new set of 15 photo points which were set up in spring 2014. A new GPS unit has been used to mark the points and short steel posts used as markers for the plots.

Surveys have been undertaken at each photo point. A marker post was placed at the 1 metre plot at the north east corner. A GPS point was taken at this corner. Within the 1 metre² plot percentages of total vegetation cover, native and weed species cover, inter-tussock space bare ground and litter were estimated. The percentages of different types of native (graminoids and herbs) and weed species (perennial, annual grasses and dicotyledons) were also recorded. It is important to consider that this is an estimation and depends on the time of year, the conditions at that time and the person undertaking the surveys. Commencing in 2015 a Biomass Estimation was also used employing the 'Golf Ball Method'*. This involved dropping 18 golf balls from a set height (1.3m) into the 1 metre² plot and an estimate made of the percentage of each golf ball not covered by vegetation. This gives an estimation of the biomass present. Over time it will be easier to note any trends in the data. At each photo point in each 1 metre² and 5 metre² plots a list of species present was recorded.

Vegetation height was also measured using the 'drop disc method' (Bransbury and Tainton 1977; Catchpole and Wheeler 1992). A disc with a central slot is dropped down a vertically held ruler and the height above ground where the disc comes to rest is then measured. The disc is a standard 200 g and 30 cm in diameter, and dropped from 1 meter.

*Morgan, John. Rapid Assessment of Biomass – the 'Golf Ball Method' in Land of Sweeping Plains – Managing and restoring the native grasslands of south-eastern Australia (2015) ed Nicholas S.G, Adrian Marshall and John W Morgan. CSIRO Publishing
Bransbury, D. I. and Tainton, N. M. (1977) The disc pasture meter: Possible applications in grazing management. Proc. Grass. Soc. Sth.Afr. 5, 115-18.
Catchpole, W. R. and Wheeler, C. J. (1992) Estimating plant biomass: A review of techniques. Australian Journal of Ecology 17, 121-131

Photos were taken of each plot; a landscape view and a close up view. Each time the landscape photo was taken from the north side of the plot looking due south, and the close up view was taken looking vertically down from the centre of 1 metre² plot from a height that included the whole plot in the frame. A new camera has been used in 2016 as the previous one has broken so the lens is slightly different.

MAB PPM 101

S 38°15.412'

E 143°46.282'

Date & time	26.11.2014 09.34	16.11.2015 16.02	22.11.2016 14.16
Total Vegetation Cover	75%	85%	85%
Average Height Vegetation	11.6cm	15.2cm	19.4cm
Total Native Vegetation Cover	35%	30%	40%
Graminoids	30%	28%	35%
Herbs	5%	2%	5%
Total Weeds	40%	55%	45%
Total Grasses	35%	45%	35%
Grasses – perennial	10%	10%	15%
Grasses – annual	25%	35%	20%
Dicots	5%	10%	10%
Inter-tussock space	25%	7%	20%
Bare Ground	20%	5%	15%
Litter	5%	10%	5%
Moss – present or absent	Present	Absent	Present
Biomass Monitoring Golf Ball Method		10.5 Medium biomass	9.5 Medium Biomass
Temperature / Wind	12.7°C WSW 17 kph	3pm - 26°C WNW 13kph	16°C WSW 2kph

Species Recorded MAB 101-1 m² Plot

2014	2015	2016
		<i>Amphibromus nervosus</i> Swamp Wallaby Grass
<i>Poa labillardierei</i> Silver Tussock	<i>Poa labillardierei</i> Silver Tussock	<i>Poa labillardierei</i> Silver Tussock
	<i>Poa sieberiana</i> Grey Tussock Grass	<i>Poa sieberiana</i> Grey Tussock Grass
<i>Rytidosperma</i> sp Wallaby Grass	<i>Rytidosperma</i> spp. x2 Wallaby Grass	<i>Rytidosperma</i> spp. x2 Wallaby Grass
		<i>Juncus bufonius</i> Toad Rush
<i>Convolvulus erubescens</i> Blushing Bind Weed	<i>Convolvulus erubescens</i> Blushing Bind Weed	
<i>Eryngium ovinum</i> Blue Devil		<i>Eryngium ovinum</i> Blue Devil
<i>Oxalis perennans</i> Wood Sorrell		<i>Oxalis perennans</i> Wood Sorrell
* <i>Agrostis capillaris</i> Brown Top Bent		* <i>Agrostis capillaris</i> Brown Top Bent
		* <i>Aira elegantissima</i> Delicate Hair Grass
* <i>Briza minor</i> Lesser Quaking Grass		* <i>Briza minor</i> Lesser Quaking Grass
* <i>Holcus lanatus</i> Fog Grass		* <i>Holcus lanatus</i> Fog Grass
* <i>Lolium multiflorum</i> Rye Grass	* <i>Lolium multiflorum</i> Rye Grass	* <i>Lolium multiflorum</i> Rye Grass
* <i>Vulpia bromoides</i> Squirrel Tail Fescue	* <i>Vulpia bromoides</i> Squirrel Tail Fescue	* <i>Vulpia bromoides</i> Squirrel Tail Fescue
		* <i>Isolepis marginata</i> Little Club Sedge
* <i>Romula rosea</i> Onion Grass		
* <i>Hypochoeris radicata</i> Flat Weed	* <i>Hypochoeris radicata</i> Flat Weed	* <i>Hypochoeris radicata</i> Flat Weed
	* <i>Trifolium angustifolium</i> Narrow Leaf Clover	

MAB 101 In 5 m² Plot

2014	2015	2016
		<i>Amphibromus nervosus</i> Swamp Wallaby Grass
	<i>Austrostipa</i> sp. Spear Grass	
<i>Dichelachne crinita</i> Plume Grass	<i>Dichelachne crinita</i> Plume Grass	<i>Dichelachne crinita</i> Plume Grass
<i>Elymus scaber</i> Australian Wheat Grass	<i>Elymus scaber</i> Australian Wheat Grass	
<i>Lachnagrostis aemula</i> Leafy Blown Grass	<i>Lachnagrostis aemula</i> Leafy Blown Grass	
<i>Poa labillardierei</i> Silver Tussock	<i>Poa labillardierei</i> Silver Tussock	<i>Poa labillardierei</i> Silver Tussock
	<i>Poa sieberiana</i> Grey Tussock	<i>Poa sieberiana</i> Grey Tussock
<i>Rytidosperma</i> sp. Wallaby Grass	<i>Rytidosperma</i> spp. Wallaby Grass x4	<i>Rytidosperma</i> spp. x3 Wallaby Grass
<i>Themeda triandra</i> Kangaroo Grass	<i>Themeda triandra</i> Kangaroo Grass	<i>Themeda triandra</i> Kangaroo Grass
		<i>Juncus bufonius</i> Toad Rush
		<i>Acaena echinata</i> Sheep's Burr
<i>Convolvulus erubescens</i> Blushing Bind Weed	<i>Convolvulus erubescens</i> Blushing Bind Weed	<i>Convolvulus erubescens</i> Blushing Bind Weed
<i>Eryngium ovium</i> Blue Devil	<i>Eryngium ovium</i> Blue Devil	<i>Eryngium ovium</i> Blue Devil
<i>Oxalis perennans</i> Wood Sorrell		<i>Oxalis perennans</i> Wood Sorrell
* <i>Agrostis capillaris</i> Brown Top Bent	* <i>Agrostis capillaris</i> Brown Top Bent	* <i>Agrostis capillaris</i> Brown Top Bent
* <i>Aira elegantissima</i> Delicate Hair Grass		* <i>Aira elegantissima</i> Delicate Hair Grass
* <i>Briza minor</i> Lesser Quaking Grass		* <i>Briza minor</i> Lesser Quaking Grass
* <i>Holcus lanatus</i> Fog Grass		* <i>Holcus lanatus</i> Fog Grass
* <i>Lolium multiflorum</i> Rye Grass	* <i>Lolium multiflorum</i> Rye Grass	* <i>Lolium multiflorum</i> Rye Grass
	* <i>Phalaris aquatic</i> Toowoomba Canary Grass	* <i>Phalaris aquatic</i> Toowoomba Canary Grass
* <i>Vulpia bromoides</i> Squirrel Tail Fescue	* <i>Vulpia bromoides</i> Squirrel Tail Fescue	* <i>Vulpia bromoides</i> Squirrel Tail Fescue
		* <i>Isolepis marginata</i> Little Club Sedge
* <i>Romula rosea</i> Onion Grass		
		* <i>Cirsium vulgare</i> Spear Thistle
* <i>Hypochoeris radicata</i> Flat Weed	* <i>Hypochoeris radicata</i> Flat Weed	* <i>Hypochoeris radicata</i> Flat Weed
* <i>Trifolium angustifolium</i> Narrow Leaf Clover	* <i>Trifolium angustifolium</i> Narrow Leaf Clover	* <i>Trifolium angustifolium</i> Narrow Leaf Clover
* <i>Trifolium</i> sp. Clover		* <i>Trifolium</i> sp. Clover

Photopoint photos.

	
C482/2A PPM 101 - 2014 Landscape View	C482/2A PPM 101 – 2016 Landscape View
	
C482/2A PPM 101 – 2014 Close up View	C482/2A PPM 101 – 2016 Close up View

MAB PPM 102

S 38°15.392'

E 143°46.191'

Date & time	26.11.2014 10.06	16.11.2015 16.30	22.11.2016 14.50
Total Vegetation Cover	80%	80%	80%
Average Height Vegetation	14 cm	10.60cm	19.2cm
Total Native Vegetation Cover	40%	25%	60%
Graminoids	20%	20%	40%
Herbs	20%	5%	20%
Total Weeds	40%	55%	20%
Total Grasses	35%	50%	18%
Grasses – perennial	20%	25%	5%
Grasses – annual	15%	25%	13%
Dicots	5%	5%	2%
Inter-tussock space	35%	15%	40%
Bare Ground	15%	10%	20%
Litter	5%	10%	0%
Moss – present or absent	Absent	Present	Present
Biomass Monitoring Golf Ball Method		8 Medium Biomass	9.5 Medium Biomass
Temperature / Wind	13.2°C W 17 kph	3pm - 26°C WNW 13kph	17.1°C WSW 7kph

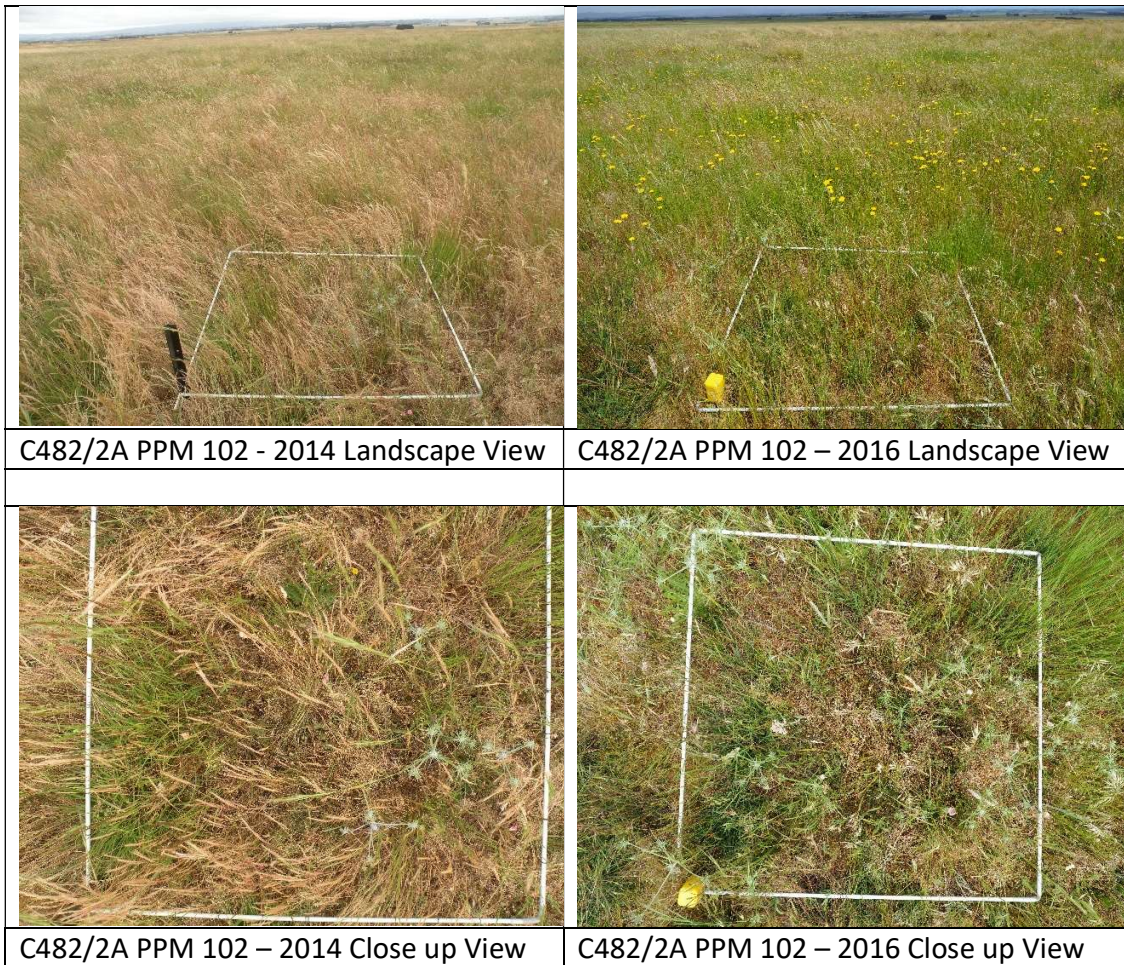
Species Recorded MAB 102 - 1 m² Plot

2014	2015	2016
		<i>Austrostipa</i> sp. Spear Grass
<i>Elymus scaber</i> Australian Wheat Grass	<i>Elymus scaber</i> Australian Wheat Grass	<i>Elymus scaber</i> Australian Wheat Grass
<i>Dichelachne crinita</i> Plume Grass	<i>Dichelachne crinita</i> Plume Grass	
<i>Rytidosperma</i> sp Wallaby Grass	<i>Rytidosperma</i> spp x3 Wallaby Grass	<i>Rytidosperma</i> spp x3 Wallaby Grass
<i>Themeda triandra</i> Kangaroo Grass	<i>Themeda triandra</i> Kangaroo Grass	<i>Themeda triandra</i> Kangaroo Grass
		<i>Juncus bufonius</i> Toad Rush
		<i>Microtis unifolia</i> Onion Orchid
<i>Convolvulus erubescens</i> Blushing Bind Weed	<i>Convolvulus erubescens</i> Blushing Bind Weed	<i>Convolvulus erubescens</i> Blushing Bind Weed
<i>Eryngium ovium</i> Blue Devil	<i>Eryngium ovium</i> Blue Devil	<i>Eryngium ovium</i> Blue Devil
<i>Oxalis perennans</i> Wood-sorrel	<i>Oxalis perennans</i> Wood-sorrel	<i>Oxalis perennans</i> Wood-sorrel
		* <i>Aira elegantissima</i> Delicate Hair Grass
* <i>Agrostis capillaris</i> Brown Top bent	* <i>Agrostis capillaris</i> Brown Top bent	* <i>Agrostis capillaris</i> Brown Top bent
* <i>Briza minor</i> Lesser Quaking Grass		* <i>Briza minor</i> Lesser Quaking Grass
	* <i>Bromus hordeaceus</i> Soft Brome	* <i>Bromus hordeaceus</i> Soft Brome
	* <i>Holcus lanatus</i> Fog Grass	* <i>Holcus lanatus</i> Fog Grass
	* <i>Lolium multiflorum</i> Rye Grass	* <i>Lolium multiflorum</i> Rye Grass
* <i>Vulpia bromoides</i> Squirrel Tail Fescue	* <i>Vulpia bromoides</i> Squirrel Tail Fescue	* <i>Vulpia bromoides</i> Squirrel Tail Fescue
		* <i>Isolepis marginata</i> Little Club Sedge
* <i>Romula rosea</i> Onion Grass		* <i>Romula rosea</i> Onion Grass
* <i>Hypochoeris radicata</i> Flat weed	* <i>Hypochoeris radicata</i> Flat weed	* <i>Hypochoeris radicata</i> Flat weed
		* <i>Trifolium</i> sp. Clover

MAB 102 In 5 m² Plot

2014	2015	2016
<i>Austrostipa sp</i> Spear Grass	<i>Austrostipa sp</i> Spear Grass	<i>Austrostipa sp.</i> Spear Grass
<i>Dichelachne crinita</i> Plume Grass	<i>Dichelachne crinita</i> Plume Grass	<i>Dichelachne crinita</i> Plume Grass
<i>Elymus scaber</i> Australian Wheat Grass	<i>Elymus scaber</i> Australian Wheat Grass	<i>Elymus scaber</i> Australian Wheat Grass
	<i>Poa labillardierei</i> Silver Tussock	
<i>Rytidosperma sp</i> Wallaby Grass	<i>Rytidosperma spp</i> Wallaby Grass x3	<i>Rytidosperma spp</i> x3 Wallaby Grass
<i>Themeda triandra</i> Kangaroo Grass	<i>Themeda triandra</i> Kangaroo Grass	<i>Themeda triandra</i> Kangaroo Grass
		<i>Juncus bufonius</i> Toad Rush
		<i>Microtis unifolia</i> Onion Orchid
		<i>Acaena echinata</i> Sheep's Burr
<i>Convolvulus erubescens</i> Blushing Bind Weed	<i>Convolvulus erubescens</i> Blushing Bind Weed	<i>Convolvulus erubescens</i> Blushing Bind Weed
<i>Eryngium ovium</i> Blue Devil	<i>Eryngium ovium</i> Blue Devil	<i>Eryngium ovium</i> Blue Devil
<i>Oxalis perennans</i> Wood sorrel	<i>Oxalis perennans</i> Wood sorrel	
<i>Rumex dumosus</i> Wiry Dock		
		<i>*Aira elegantissima</i> Delicate Hair Grass
<i>*Agrostis capillaris</i> Brown Top bent	<i>Agrostis capillaris</i> Brown Top bent	<i>*Agrostis capillaris</i> Brown Top bent
<i>*Briza minor</i> Lesser Quaking Grass		<i>*Briza minor</i> Lesser Quaking Grass
	<i>*Bromus hordeaceus</i> Soft Brome	<i>*Bromus hordeaceus</i> Soft Brome
<i>*Holcus lanatus</i> Fog Grass	<i>*Holcus lanatus</i> Fog Grass	<i>*Holcus lanatus</i> Fog Grass
<i>*Lolium multiflorum</i> Rye Grass	<i>*Lolium multiflorum</i> Rye Grass	<i>*Lolium multiflorum</i> Rye Grass
<i>*Vulpia bromoides</i> Squirrel Tail Fescue	<i>*Vulpia bromoides</i> Squirrel Tail Fescue	<i>*Vulpia bromoides</i> Squirrel Tail Fescue
		<i>*Isolepis marginata</i> Little Club Sedge
<i>*Romula rosea</i> Onion Grass		<i>*Romula rosea</i> Onion Grass
<i>*Hypochoeris radicata</i> Flat weed	<i>*Hypochoeris radicata</i> Flat weed	<i>*Hypochoeris radicata</i> Flat weed
<i>*Trifolium augustifolium</i> Narrow Leafed Clover		<i>*Trifolium augustifolium</i> Narrow Leafed Clover
		<i>*Trifolium sp.</i> Clover

Photopoint photos.



MAB PPM 103

S 38°15.379'

E 143°46.057'

Date & time	26.11.2014 10.52	18.11.2015 15.35	22.11.2016 15.23
Total Vegetation Cover	80%	70	95%
Average Height Vegetation	13.4 cm	11.6 cm	16.8 cm
Total Native Vegetation Cover	35%	30%	30%
Graminoids	20%	25%	25%
Herbs	15%	5%	5%
Total Weeds	45%	40%	65%
Total Grasses	35%	35%	55%
Grasses – perennial	10%	20%	20%
Grasses – annual	25%	15%	35%
Dicots	10%	5%	10%
Inter-tussock space	25%	10%	10%
Bare Ground	10%	5%	5%
Litter	10%	25%	0%
Moss–present or absent	Present	Present	Present
Biomass Monitoring Golf Ball Method		9.5 Medium Biomass	8 Medium-High Biomass
Temperature / Wind	15.3°C WSW 22 kph	3pm 25°C NNW 6kph	17°C W 7kph

Species Recorded MAB 103- 1 m² Plot

2014	2015	2016
<i>Austrostipa sp.</i> Spear Grass	<i>Austrostipa sp.</i> Spear Grass	<i>Austrostipa sp.</i> Spear Grass
<i>Dichelachne crinita</i> Plume Grass	<i>Dichelachne crinita</i> Plume Grass	<i>Dichelachne crinita</i> Plume Grass
<i>Elymus scaber</i> Australian Wheat Grass	<i>Elymus scaber</i> Australian Wheat Grass	<i>Elymus scaber</i> Australian Wheat Grass
	<i>Rytidosperma spp</i> x2 Wallaby Grass	<i>Rytidosperma spp</i> x2 Wallaby Grass
		<i>Juncus bufonius</i> Toad Rush
<i>Lomandra nana</i> Small Mat Rush		
<i>Convolvulus erubescens</i> Blushing Bind Weed	<i>Convolvulus erubescens</i> Blushing Bind Weed	<i>Convolvulus erubescens</i> Blushing Bind Weed
* <i>Agrostis capillaris</i> Brown Top Bent	* <i>Agrostis capillaris</i> Brown Top Bent	* <i>Agrostis capillaris</i> Brown Top Bent
* <i>Aira elegantissima</i> Delicate Hair Grass		* <i>Aira elegantissima</i> Delicate Hair Grass
* <i>Briza minor</i> Lesser Quaking Grass		* <i>Briza minor</i> Lesser Quaking Grass
	* <i>Bromus hordeaceus</i> Soft brome	
* <i>Holcus lanantus</i> Fog Grass	* <i>Holcus lanantus</i> Fog Grass	* <i>Holcus lanantus</i> Fog Grass
* <i>Lolium multiflorum</i> Rye Grass	* <i>Lolium multiflorum</i> Rye Grass	* <i>Lolium multiflorum</i> Rye Grass
* <i>Vulpia bromoides</i> Squirrel Tail Fescue	* <i>Vulpia bromoides</i> Squirrel Tail Fescue	* <i>Vulpia bromoides</i> Squirrel Tail Fescue
		* <i>Isolepis marginata</i> Little Club Sedge
* <i>Romula rosea</i> Onion Grass		* <i>Romula rosea</i> Onion Grass
* <i>Hypochoeris radicata</i> Flat Weed	* <i>Hypochoeris radicata</i> Flat Weed	* <i>Hypochoeris radicata</i> Flat Weed

MAB 103 In 5 m² Plot

2014	2015	2016
<i>Austrostipa</i> sp. Spear Grass	<i>Austrostipa</i> sp. Spear Grass	<i>Austrostipa</i> sp. Spear Grass
<i>Dichelachne crinita</i> Plume Grass	<i>Dichelachne crinita</i> Plume Grass	<i>Dichelachne crinita</i> Plume Grass
<i>Elymus scaber</i> Australian Wheat Grass	<i>Elymus scaber</i> Australian Wheat Grass	<i>Elymus scaber</i> Australian Wheat Grass
	<i>Poa labillardierei</i> Poa Tussock	<i>Poa labillardierei</i> Poa Tussock
<i>Rytidospermum</i> sp. Wallaby Grass	<i>Rytidosperma</i> spp.x2 Wallaby Grass	<i>Rytidosperma</i> spp x4 Wallaby Grass
	<i>Themeda triandra</i> Kangaroo Grass	<i>Themeda triandra</i> Kangaroo Grass
		<i>Juncus bufonius</i> Toad Rush
Small Mat Rush <i>Lomandra nana</i>		
		<i>Schoenus apogon</i> Common Bog Rush
		<i>Acaena echinata</i> Sheep's Burr
<i>Convolvulus erubescens</i> Blushing Bind Weed	<i>Convolvulus erubescens</i> Blushing Bind Weed	<i>Convolvulus erubescens</i> Blushing Bind Weed
	<i>Eryngium ovinum</i> Blue Devil	
* <i>Agrostis capillaris</i> Brown Top Bent	* <i>Agrostis capillaris</i> Brown Top Bent	* <i>Agrostis capillaris</i> Brown Top Bent
* <i>Aira elegantissima</i> Delicate Hair Grass		* <i>Aira elegantissima</i> Delicate Hair Grass
* <i>Briza minor</i> Lesser Quaking Grass	* <i>Briza minor</i> Lesser Quaking Grass	* <i>Briza minor</i> Lesser Quaking Grass
	* <i>Bromus hordeaceus</i> Soft brome	
* <i>Holcus lanantus</i> Fog Grass	* <i>Holcus lanantus</i> Fog Grass	* <i>Holcus lanantus</i> Fog Grass
* <i>Lolium multiflorum</i> Rye Grass	* <i>Lolium multiflorum</i> Rye Grass	* <i>Lolium multiflorum</i> Rye Grass
* <i>Vulpia bromoides</i> Squirrel Tail Fescue	* <i>Vulpia bromoides</i> Squirrel Tail Fescue	* <i>Vulpia bromoides</i> Squirrel Tail Fescue
		* <i>Isolepis marginata</i> Little Club Sedge
* <i>Romula rosea</i> Onion Grass		* <i>Romula rosea</i> Onion Grass
	* <i>Cirsium vulgare</i> Spear Thistle	* <i>Cirsium vulgare</i> Spear Thistle
* <i>Hypochoeris radicata</i> Flat Weed	* <i>Hypochoeris radicata</i> Flat Weed	* <i>Hypochoeris radicata</i> Flat Weed

Photopoint photos.

	
C482/2A PPM 103 - 2014 Landscape View	C482/2A PPM 103 – 2016 Landscape View
	
C482/2A PPM 103 – 2014 Close up View	C482/2A PPM 103 – 2016 Close up View

MAB PPM 104

S 38°15.427'

E 143°46.102'

Date & time	26.11.2014 11.21	18.11.2015 16.02	22.11.2016 15.50
Total Vegetation Cover	75%	85%	85%
Average Height Vegetation	13.8 cm	10.4cm	8.8 cm
Total Native Vegetation Cover	50%	30%	40%
Graminoids	30%	25%	30%
Herbs	20%	5%	10%
Total Weeds	25%	55%	45%
Total Grasses	10%	30%	40%
Grasses – perennial	5%	5%	10%
Grasses – annual	5%	25%	30%
Dicots	15%	25%	5%
Inter-tussock space	45%	10%	25%
Bare Ground	25%	5%	15%
Litter	0%	10%	10%
Moss – present or absent	Present	Present	Present
Biomass Monitoring Golf Ball Method		9.5 Medium Biomass	14.5 Low Biomass
Temperature / Wind	15.4°C WSW 24 kph	3pm 25°C NNW 6 kph	16°C ENE 17 kph

Species Recorded MAB 104 - 1 m² Plot

2014	2015	2016
		<i>Austrostipa</i> sp Spear Grass
<i>Elymus scaber</i> Australian Wheat Grass	<i>Elymus scaber</i> Australian Wheat Grass	<i>Elymus scaber</i> Australian Wheat Grass
<i>Dichelachne crinita</i> Plume Grass	<i>Dichelachne crinita</i> Plume Grass	
<i>Rytidospermum</i> sp Wallaby Grass		<i>Rytidospermum</i> sp Wallaby Grass
<i>Themeda triandra</i> Kangaroo Grass	<i>Themeda triandra</i> Kangaroo Grass	<i>Themeda triandra</i> Kangaroo Grass
<i>Arthropodium strictum</i> Chocolate Lily	<i>Arthropodium strictum</i> Chocolate Lily	<i>Arthropodium strictum</i> Chocolate Lily
		<i>Juncus bufonius</i> Toad Rush
		<i>Microtis unifolia</i> Onion Orchid
<i>Asperula conferta</i> Common Woodruff	<i>Asperula conferta</i> Common Woodruff	<i>Asperula conferta</i> Common Woodruff
<i>Haloragis heterophylla</i> Varied Raspwort		<i>Haloragis heterophylla</i> Varied Raspwort
<i>Oxalis perennans</i> Wood Sorrell		<i>Oxalis perennans</i> Wood Sorrell
<i>Solenogyne dominii</i> Solenogyne		
* <i>Agrostis capillaris</i> Brown Top Bent	* <i>Agrostis capillaris</i> Brown Top Bent	* <i>Agrostis capillaris</i> Brown Top Bent
* <i>Aira elegantissima</i> Delicate Hair Grass	* <i>Aira elegantissima</i> Delicate Hair Grass	* <i>Aira elegantissima</i> Delicate Hair Grass
	* <i>Avena barbata</i> Wild Oats	* <i>Avena barbata</i> Wild Oats
* <i>Briza minor</i> Lesser Quaking Grass		* <i>Briza minor</i> Lesser Quaking Grass
* <i>Bromus hordeaceus</i> Soft Brome	* <i>Bromus hordeaceus</i> Soft Brome	* <i>Bromus hordeaceus</i> Soft Brome
* <i>Lagurus ovatus</i> Hare's Tail Grass	* <i>Lagurus ovatus</i> Hare's Tail Grass	* <i>Lagurus ovatus</i> Hare's Tail Grass
* <i>Vulpia bromoides</i> Squirrel Tail Fescue	* <i>Vulpia bromoides</i> Squirrel Tail Fescue	
		* <i>Isolepis marginata</i> Little Club Sedge
	* <i>Romula rosea</i> Onion Grass	* <i>Romula rosea</i> Onion Grass
* <i>Hypochoeris radicata</i> Flat Weed	* <i>Hypochoeris radicata</i> Flat Weed	* <i>Hypochoeris radicata</i> Flat Weed
* <i>Trifolium angustifolium</i> Narrow Leafed Clover	* <i>Trifolium angustifolium</i> Narrow Leafed Clover	* <i>Trifolium angustifolium</i> Narrow Leafed Clover
		* <i>Trifolium dubium</i> Suckling Clover
* <i>Trifolium</i> sp. Clover	* <i>Trifolium</i> sp. Clover	

MAB 104 In 5 m² Plot

2014	2015	2016
		<i>Austrostipa</i> sp Spear Grass
<i>Dichelachne crinita</i> Plume Grass	<i>Dichelachne crinita</i> Plume Grass	<i>Dichelachne crinita</i> Plume Grass
<i>Elymus scaber</i> Australian Wheat Grass	<i>Elymus scaber</i> Australian Wheat Grass	<i>Elymus scaber</i> Australian Wheat Grass
		<i>Pentapogon quadrifidus</i> Five Awned Spear Grass
<i>Poa labillardierei</i> Silver Tussock	<i>Poa labillardierei</i> Silver Tussock	<i>Poa labillardierei</i> Silver Tussock
<i>Rytidospermum</i> sp Wallaby Grass	<i>Rytidospermum</i> sp Wallaby Grass	<i>Rytidospermum</i> sp Wallaby Grass
<i>Themeda triandra</i> Kangaroo Grass	<i>Themeda triandra</i> Kangaroo Grass	<i>Themeda triandra</i> Kangaroo Grass
<i>Arthropodium strictum</i> Chocolate Lily	<i>Arthropodium strictum</i> Chocolate Lily	<i>Arthropodium strictum</i> Chocolate Lily
		<i>Juncus bufonius</i> Toad Rush
	<i>Microtis unifolia</i> Onion Orchid	<i>Microtis unifolia</i> Onion Orchid
<i>Acaena echinata</i> Sheep's Burr		<i>Acaena echinata</i> Sheep's Burr
<i>Asperula conferta</i> Common Woodruff	<i>Asperula conferta</i> Common Woodruff	<i>Asperula conferta</i> Common Woodruff
<i>Eryngium ovinum</i> Blue Devil	<i>Eryngium ovinum</i> Blue Devil	
<i>Haloragis heterophylla</i> Varied Raspwort		<i>Haloragis heterophylla</i> Varied Raspwort
		<i>Leptorhynchos squamatus</i> Scaly Buttons
<i>Oxalis perennans</i> Wood Sorrell		<i>Oxalis perennans</i> Wood Sorrell
<i>Solenogyne dominii</i> Solenogyne		
* <i>Aira elegantissima</i> Delicate Hair Grass	* <i>Aira elegantissima</i> Delicate Hair Grass	* <i>Aira elegantissima</i> Delicate Hair Grass
		* <i>Anthoxanthum odoratum</i> Sweet Vernal Grass
* <i>Agrostis capillaris</i> Brown Top Bent	* <i>Agrostis capillaris</i> Brown Top Bent	* <i>Agrostis capillaris</i> Brown Top Bent
* <i>Avena barbata</i> Wild Oats	* <i>Avena barbata</i> Wild Oats	* <i>Avena barbata</i> Wild Oats
* <i>Briza minor</i> Lesser Quaking Grass		* <i>Briza minor</i> Lesser Quaking Grass
* <i>Bromus hordeaceus</i> Soft Brome	* <i>Bromus hordeaceus</i> Soft Brome	* <i>Bromus hordeaceus</i> Soft Brome
* <i>Centaurium tenuiflorum</i> Slender Century		

	* <i>Cirsium vulgare</i> Spear Thistle	
* <i>Holcus lanatus</i> Fog Grass	* <i>Holcus lanatus</i> Fog Grass	
* <i>Lagurus ovatus</i> Hare's Tail Grass	* <i>Lagurus ovatus</i> Hare's Tail Grass	* <i>Lagurus ovatus</i> Hare's Tail Grass
* <i>Vulpia bromoides</i> Squirrel Tail Fescue	* <i>Vulpia bromoides</i> Squirrel Tail Fescue	
		* <i>Isolepis marginata</i> Little Club Sedge
	* <i>Romula rosea</i> Onion Grass	* <i>Romula rosea</i> Onion Grass
* <i>Hypochoeris radicata</i> Flat Weed	* <i>Hypochoeris radicata</i> Flat Weed	* <i>Hypochoeris radicata</i> Flat Weed
* <i>Trifolium augustifolium</i> Narrow Leafed Clover	* <i>Trifolium augustifolium</i> Narrow Leafed Clover	* <i>Trifolium augustifolium</i> Narrow Leafed Clover
		* <i>Trifolium campestre</i> Hop Clover
		* <i>Trifolium dubium</i> Suckling Clover
* <i>Trifolium sp.</i> Clover	* <i>Trifolium sp.</i> Clover	Hop Clover

	
C482/2A PPM 104 - 2014 Landscape View	C482/2A PPM 104 – 2016 Landscape View
	
C482/2A PPM 104 – 2014 Close up View	C482/2A PPM 104 – 2016 Close up View

MAB PPM 105

S 38°15.581'

E 143°46.306'

Date & time	27.11.2014 09.10	16.11.2015 09.14	23.11.2016 10.38
Total Vegetation Cover	90%	80%	95%
Average Height Vegetation	13 cm	7.6 cm	13.8 cm
Total Native Vegetation Cover	45%	35%	40%
Graminoids	40%	30%	35%
Herbs	5%	5%	5%
Total Weeds	45%	45%	55%
Total Grasses	40%	35%	40%
Grasses – perennial	5%	5%	5%
Grasses – annual	35%	30%	35%
Dicots	5%	10%	15%
Inter-tussock space	15%	15%	10%
Bare Ground	10%	10%	5%
Litter	0%	10%	10%
Moss – present or absent	Present	Present	Present
Biomass Monitoring Golf Ball Method		10 Medium Biomass	11 Medium Low Biomass
Temperature / Wind	11.6°C S 19 kph	9am - 15°C.4 E 19 kph	11.4°C SSW 22 kph

Species Recorded MAB 105 - 1 m² Plot

2014	2015	2016
		<i>Amphibromus nervosus</i> Swamp Wallaby Grass
<i>Dichelachne crinita</i> Plume Grass	<i>Dichelachne crinita</i> Plume Grass	<i>Dichelachne crinita</i> Plume Grass
<i>Rytidosperma spp.</i> x 2 Wallaby Grass	<i>Rytidosperma spp</i> x 2 Wallaby Grass	<i>Rytidosperma spp</i> x 2 Wallaby Grass
<i>Themeda triandra</i> Kangaroo Grass	<i>Themeda triandra</i> Kangaroo Grass	<i>Themeda triandra</i> Kangaroo Grass
		<i>Juncus bufonius</i> Toad Rush
<i>Convolvulus erubescens</i> Blushing Bind Weed	<i>Convolvulus erubescens</i> Blushing Bind Weed	
		<i>Eryngium ovinum</i> Blue Devil
<i>Oxalis perennans</i> Wood Sorrel		<i>Oxalis perennans</i> Wood Sorrel
	* <i>Aira elegantissima</i> Delicate Hair Grass	* <i>Aira elegantissima</i> Delicate Hair Grass
* <i>Agrostis capillaris</i> Brown Top Bent	* <i>Agrostis capillaris</i> Brown Top Bent	* <i>Agrostis capillaris</i> Brown Top Bent
* <i>Briza minor</i> Lesser Quaking Grass		* <i>Briza minor</i> Lesser Quaking Grass
* <i>Lagurus ovatus</i> Hare's Tail Grass		
	* <i>Lolium multiflorum</i> Rye Grass	* <i>Lolium multiflorum</i> Rye Grass
* <i>Vulpia bromoides</i> Squirrel Tail Fescue	* <i>Vulpia bromoides</i> Squirrel Tail Fescue	
		* <i>Isolepis levysiana</i> Tiny Flat Sedge
		<i>Juncus capitatus</i> Capitate Rush
* <i>Romula rosea</i> Onion Grass	* <i>Romula rosea</i> Onion Grass	* <i>Romula rosea</i> Onion Grass
<i>Hypochoeris radicata</i> Flat Weed	* <i>Hypochoeris radicata</i> Flat Weed	* <i>Hypochoeris radicata</i> Flat Weed
* <i>Trifolium augustifolium</i> Narrow Leaf Clover	* <i>Trifolium augustifolium</i> Narrow Leaf Clover	* <i>Trifolium augustifolium</i> Narrow Leaf Clover
* <i>Trifolium sp.</i> Clover		* <i>Trifolium sp.</i> Clover

MAB 105 In 5 m² Plot

2014	2015	2016
		<i>Amphibromus nervosus</i> Swamp Wallaby Grass
<i>Dichelachne crinita</i> Plume Grass	<i>Dichelachne crinita</i> Plume Grass	<i>Dichelachne crinita</i> Plume Grass
<i>Elymus scaber</i> Australian Wheat Grass		
		<i>Pentapogon quadrifidus</i> Five Awned Spear Grass
<i>Rytidosperma spp.</i> Wallaby Grass x 3	<i>Rytidosperma spp</i> Wallaby Grass x 3	<i>Rytidosperma spp</i> x 3 Wallaby Grass
<i>Themeda triandra</i> Kangaroo Grass	<i>Themeda triandra</i> Kangaroo Grass	<i>Themeda triandra</i> Kangaroo Grass
		<i>Juncus bufonius</i> Toad Rush
<i>Convolvulus erubescens</i> Blushing Bind Weed	<i>Convolvulus erubescens</i> Blushing Bind Weed	
<i>Eryngium ovinum</i> Blue Devil	<i>Eryngium ovinum</i> Blue Devil	<i>Eryngium ovinum</i> Blue Devil
		<i>Microtis unifolia</i> Onion Orchid
<i>Oxalis perennans</i> Wood Sorrell		<i>Oxalis perennans</i> Wood Sorrel
		* <i>Aira elegantissima</i> Delicate Hair Grass
* <i>Agrostis capillaris</i> Brown Top Bent	* <i>Agrostis capillaris</i> Brown Top Bent	* <i>Agrostis capillaris</i> Brown Top Bent
		* <i>Avena barbata</i> Wild Oats
* <i>Briza minor</i> Lesser Quaking Grass	* <i>Briza minor</i> Lesser Quaking Grass	* <i>Briza minor</i> Lesser Quaking Grass
* <i>Lagurus ovatus</i> Hare's Tail Grass		
		* <i>Lolium multiflorum</i> Rye Grass
* <i>Vulpia bromoides</i> Squirrel Tail Fescue	* <i>Vulpia bromoides</i> Squirrel Tail Fescue	
		* <i>Isolepis levysiana</i> Tiny Flat Sedge
		<i>Juncus capitatus</i> Capitate Rush
* <i>Romula rosea</i> Onion Grass	* <i>Romula rosea</i> Onion Grass	* <i>Romula rosea</i> Onion Grass
* <i>Hypochoeris radicata</i> Flat Weed	* <i>Hypochoeris radicata</i> Flat Weed	* <i>Hypochoeris radicata</i> Flat Weed
* <i>Trifolium augustifolium</i> Narrow Leaf Clover	* <i>Trifolium augustifolium</i> Narrow Leaf Clover	* <i>Trifolium augustifolium</i> Narrow Leaf Clover
* <i>Trifolium sp.</i> Clover		* <i>Trifolium sp.</i> Clover

Photopoint photos.

	
C482/2A PPM 105 - 2014 Landscape View	C482/2A PPM 105 – 2016 Landscape View
	
C482/2A PPM 105 – 2014 Close up View	C482/2A PPM 105 – 2016 Close up View

MAB PPM 106

S 38°15.580'

E 143°46.208'

Date & time	27.11.2014 09.37	16.11.2015 09.38	16.11.2016 16.44
Total Vegetation Cover	70%	70%	100%
Average Height Vegetation	9.8 cm	5 cm	13.6cm
Total Native Vegetation Cover	45%	40%	70%
Graminoids	20%	10%	20%
Herbs	25%	30%	50%
Total Weeds	25%	30%	30%
Total Grasses	20%	25%	25%
Grasses – perennial	15%	0%	10%
Grasses – annual	5%	25%	15%
Dicots	5%	5%	5%
Inter-tussock space	55%	40%	50%
Bare Ground	30%	20%	0%
Litter	0%	10%	0%
Moss – present or absent	Present	Present	Present
Biomass Monitoring Golf Ball Method		16 Low Biomass	11.5 Medium -Low Biomass
Temperature / Wind	13.5°C ESE 15 kph	9am - 15°C.4 E 19 kph	18.8°C E 20 kph

Species Recorded MAB 106 - In 1 m² Plot

2014	2015	2016
<i>Dichelachne crinita</i> Plume Grass	<i>Dichelachne crinita</i> Plume Grass	<i>Dichelachne crinita</i> Plume Grass
<i>Lachnagrostis aemula</i> Leafy Blown Grass	<i>Lachnagrostis aemula</i> Leafy Blown Grass	<i>Lachnagrostis aemula</i> Leafy Blown Grass
		<i>Poa sieberiana</i> Grey Tussock Grass
<i>Rytidosperma sp</i> Wallaby Grass	<i>Rytidosperma spp.x2</i> Wallaby Grass	<i>Rytidosperma spp. X3</i> Wallaby Grass
		<i>Juncus bufonius</i> Toad Rush
		<i>Microtis unifolia</i> Onion orchid
		<i>Drosera peltata</i> Pale Sundew
<i>Eryngium ovinum</i> Blue Devil	<i>Eryngium ovinum</i> Blue Devil	<i>Eryngium ovinum</i> Blue Devil
	<i>Haloragis heterophylla</i> Varied Raspwort	<i>Haloragis heterophylla</i> Varied Raspwort
<i>Leptorhynchos squamatus</i> Scaly Buttons	<i>Leptorhynchos squamatus</i> Scaly Buttons	<i>Leptorhynchos squamatus</i> Scaly Buttons
		<i>Rumex dumosus</i> Wiry Dock
* <i>Aira elegantissima</i> Delicate Hair Grass		* <i>Aira elegantissima</i> Delicate Hair Grass
* <i>Agrostis capillaris</i> Brown Top Bent		* <i>Agrostis capillaris</i> Brown Top Bent
* <i>Briza minor</i> Lesser Quaking Grass		* <i>Briza minor</i> Lesser Quaking Grass
		* <i>Holcus lanatus</i> Fog Grass
* <i>Lagurus ovatus</i> Hare's Tail Grass	* <i>Lagurus ovatus</i> Hare's Tail Grass	
* <i>Vulpia bromoides</i> Squirrel Tail Fescue	* <i>Vulpia bromoides</i> Squirrel Tail Fescue	* <i>Vulpia bromoides</i> Squirrel Tail Fescue
* <i>Romula rosea</i> Onion Grass		
* <i>Cuscuta sp.</i> Dodder	* <i>Cuscuta sp.</i> Dodder	* <i>Cuscuta sp.</i> Dodder
* <i>Hypochoeris radicata</i> Flat Weed	* <i>Hypochoeris radicata</i> Flat Weed	* <i>Hypochoeris radicata</i> Flat Weed
* <i>Trifolium augustifolium</i> Narrow Leaf Clover	* <i>Trifolium augustifolium</i> Narrow Leaf Clover	
* <i>Trifolium sp.</i> Clover		* <i>Trifolium sp.</i> Clover

MAB 106 In 5 m² Plot

2014	2015	2016
		<i>Amphibromus nervosus</i> Swamp Wallaby Grass
<i>Dichelachne crinita</i> Plume Grass	<i>Dichelachne crinita</i> Plume Grass	<i>Dichelachne crinita</i> Plume Grass
<i>Lachnagrostis aemula</i> Leafy Blown Grass	<i>Lachnagrostis aemula</i> Leafy Blown Grass	<i>Lachnagrostis aemula</i> Leafy Blown Grass
<i>Poa labillardierei</i> Tussock Grass	<i>Poa labillardierei</i> Tussock Grass	<i>Poa labillardierei</i> Tussock Grass
		<i>Poa sieberiana</i> Grey Tussock Grass
<i>Rytidosperma</i> spp. x3 Wallaby Grass	<i>Rytidosperma</i> spp.x3 Wallaby Grass	<i>Rytidosperma</i> spp. x3 Wallaby Grass
<i>Themeda triandra</i> Kangaroo Grass	<i>Themeda triandra</i> Kangaroo Grass	
		<i>Juncus bufonius</i> Toad Rush
		<i>Microtis unifolia</i> Onion orchid
<i>Calocephalus citreus</i> Lemon Beauty Heads 10m SE	<i>Calocephalus citreus</i> Lemon Beauty Heads 10m SE	<i>Calocephalus citreus</i> Lemon Beauty Heads 10m SE
		<i>Drosera peltata</i> Pale Sundew
<i>Eryngium ovinum</i> Blue Devil	<i>Eryngium ovinum</i> Blue Devil	<i>Eryngium ovinum</i> Blue Devil
	<i>Haloragis heterophylla</i> Varied Raspwort	<i>Haloragis heterophylla</i> Varied Raspwort
<i>Leptorhynchus squamatus</i> Scaly Buttons	<i>Leptorhynchus squamatus</i> Scaly Buttons	<i>Leptorhynchus squamatus</i> Scaly Buttons
		<i>Rumex dumosus</i> Wiry Dock
* <i>Aira elegantissima</i> Delicate Hair Grass		* <i>Aira elegantissima</i> Delicate Hair Grass
* <i>Agrostis cacpillaris</i> Brown Top Bent	* <i>Agrostis cacpillaris</i> Brown Top Bent	* <i>Agrostis capillaris</i> Brown Top Bent
* <i>Briza minor</i> Lesser Quaking Grass		* <i>Briza minor</i> Lesser Quaking Grass
* <i>Holcus lanatus</i> Fog Grass	* <i>Holcus lanatus</i> Fog Grass	* <i>Holcus lanatus</i> Fog Grass
* <i>Lagurus ovatus</i> Hare's Tail Grass	* <i>Lagurus ovatus</i> Hare's Tail Grass	
* <i>Vulpia bromoides</i> Squirrel Tail Fescue	* <i>Vulpia bromoides</i> Squirrel Tail Fescue	* <i>Vulpia bromoides</i> Squirrel Tail Fescue
* <i>Romula rosea</i> Onion Grass		
* <i>Hypochoeris radicata</i> Flat Weed	* <i>Hypochoeris radicata</i> Flat Weed	* <i>Hypochoeris radicata</i> Flat Weed
* <i>Cuscuta</i> sp. Dodder	* <i>Cuscuta</i> sp.Dodder	* <i>Cuscuta</i> sp.Dodder
* <i>Trifolium augustifolium</i> Narrow Leaf Clover	* <i>Trifolium augustifolium</i> Narrow Leaf Clover	
* <i>Trifolium</i> sp Clover		* <i>Trifolium</i> sp.Clover

Photopoint photos.

 A wide-angle photograph of a grassy field in 2014. A white square frame is marked on the ground, and a yellow survey stake is visible to the left of the frame. The grass is mostly dry and yellowish-brown.	 A wide-angle photograph of the same field in 2016. The vegetation is greener and more dense than in 2014. A white square frame and a yellow survey stake are visible in the same positions.
C482/2A PPM 106 - 2014 Landscape View	C482/2A PPM 106 – 2016 Landscape View
 A close-up photograph of the white square frame in 2014. The ground is covered with dry, brownish grass and some small yellow flowers.	 A close-up photograph of the white square frame in 2016. The ground is covered with lush green grass and many small yellow flowers.
C482/2A PPM 106 – 2014 Close up View	C482/2A PPM 106 – 2016 Close up View

MAB PPM 107

S 38°15.553'

E 143°46.035' (repositioned 2015)

Date & time	23.10.2014 15.15	18.11.2015 15.03	16.11.2016 16.00
Total Vegetation Cover	80%	75%	95%
Average Height Vegetation	12cm	8.6cm	8.6cm
Total Native Vegetation Cover	40%	40%	70%
Graminoids	30%	35%	65%
Herbs	10%	5%	5%
Total Weeds	40%	35%	25%
Total Grasses	35%	20%	20%
Grasses – perennial	20%	15%	0%
Grasses – annual	15%	5%	20%
Dicots	5%	15%	5%
Inter-tussock space	25%	10%	10%
Bare Ground	15%	5%	5%
Litter	5%	20%	5%
Moss – present or absent	Present	Present	Present
Biomass Monitoring Golf Ball Method		11.5 Medium – Low Biomass	12 Medium-Low Biomass
Temperature / Wind	15°C ESE 30 kph	3pm – 25°C NNW 6kph	19.7°C E20kph

Species Recorded MAB 107 - 1 m² Plot

2014	2015	2016
	<i>Austrostipa sp.</i> Spear Grass	<i>Austrostipa sp.</i> Spear Grass x2
<i>Dichelachne crinita</i> Plume Grass		<i>Dichelachne crinita</i> Plume Grass
	<i>Elymus scaber</i> Australian Wheat Grass	
	<i>Lachnagrostis aemula</i> Leafy Blown Grass	
<i>Rytidosperma spp.</i> x2 Wallaby Grass	<i>Rytidosperma spp.</i> x2 Wallaby Grass	<i>Rytidosperma spp.</i> x3 Wallaby Grass
<i>Themeda triandra</i> Kangaroo Grass	<i>Themeda triandra</i> Kangaroo Grass	<i>Themeda triandra</i> Kangaroo Grass
		<i>Juncus bufonius</i> Toad Rush
<i>Lomandra nana</i> Dwarf Mat Rush	<i>Lomandra nana</i> Dwarf Mat Rush	<i>Lomandra nana</i> Dwarf Mat Rush
		<i>Microtis unifolia</i> Toad Rush
<i>Schoenus apogon</i> Common Bog Sedge		<i>Schoenus apogon</i> Common Bog Sedge
<i>Acaena echinata</i> Sheep's Burr		
		<i>Asperula conferta</i> Common Woodruff
<i>Convolvulus erubescens</i> Blushing Bindweed	<i>Convolvulus erubescens</i> Blushing Bindweed	
		<i>Drosera peltata</i> Pale Sundew
	<i>Eryngium ovinum</i> Blue Devil	
	<i>Haloragis heterophylla</i> Varied Raspwort	<i>Haloragis heterophylla</i> Varied Raspwort
<i>Leptorhynchus squamatus</i> Scaly Buttons		
<i>Oxalis perennans</i> Wood Sorrel		
* <i>Aira elegantissima</i> Delicate Hair Grass		* <i>Aira elegantissima</i> Delicate Hair Grass
* <i>Agrostis capillaris</i> Brown Top Bent	* <i>Agrostis capillaris</i> Brown Top Bent	
		* <i>Avena barbata</i> Wild Oats
* <i>Briza minor</i> Lesser Quaking Grass	* <i>Briza minor</i> Lesser Quaking Grass	* <i>Briza minor</i> Lesser Quaking Grass
		* <i>Bromus hordeaceus</i> Soft Brome
	* <i>Lagurus ovatus</i> Hare's Tail Grass	
* <i>Romula rosea</i> Onion Grass		
	* <i>Hypochoeris radicata</i> Flat Weed	* <i>Hypochoeris radicata</i> Flat Weed
	* <i>Plantago lanceolata</i> Ribwort	
		* <i>Trifolium angustifolium</i> Narrow Leaf Clover

MAB 107 In 5 m² Plot

2014	2015	2016
	<i>Austrostipa</i> sp.Spear Grass	<i>Austrostipa</i> sp. Spear Grass x2
<i>Dichelachne crinita</i> Plume Grass	<i>Dichelachne crinita</i> Plume Grass	<i>Dichelachne crinita</i> Plume Grass
	<i>Elymus scaber</i> Australian Wheat Grass	
	<i>Lachnagrostis aemula</i> Leafy Blown Grass	
<i>Poa labillardierei</i> Silver Tussock	<i>Poa labillardierei</i> Silver Tussock	
<i>Rytidosperma</i> spp.x2 Wallaby Grass	<i>Rytidosperma</i> spp x3 Wallaby Grass	<i>Rytidosperma</i> spp.x3 Wallaby Grass
<i>Themeda triandra</i> Kangaroo Grass	<i>Themeda triandra</i> Kangaroo Grass	<i>Themeda triandra</i> Kangaroo Grass
<i>Arthropodium strictum</i> Chocolate Lily		<i>Arthropodium strictum</i> Chocolate Lily
		<i>Juncus bufonius</i> Toad Rush
<i>Lomandra nana</i> Dwarf Mat Rush	<i>Lomandra nana</i> Dwarf Mat Rush	<i>Lomandra nana</i> Dwarf Mat Rush
		<i>Microtis unifolia</i> Onion Orchid
<i>Schoenus apogon</i> Common Bog Sedge		<i>Schoenus apogon</i> Common Bog Sedge
<i>Acaena echinata</i> Sheep's Burr		
<i>Asperula conferta</i> Common Woodruff		<i>Asperula conferta</i> Common Woodruff
<i>Convolvulus erubescens</i> Blushing Bindweed	<i>Convolvulus erubescens</i> Blushing Bindweed	
		<i>Drosera peltata</i> Pale Sundew
<i>Eryngium ovinum</i> Blue Devil	<i>Eryngium ovinum</i> Blue Devil	<i>Eryngium ovinum</i> Blue Devil
	<i>Haloragis heterophylla</i> Varied Raspwort	<i>Haloragis heterophylla</i> Varied Raspwort
<i>Leptorhynchos squamatus</i> Scaly Buttons		<i>Leptorhynchos squamatus</i> Scaly Buttons
<i>Oxalis perennans</i> Wood Sorrel		
* <i>Aira elegantissima</i> Delicate Hair Grass		* <i>Aira elegantissima</i> Delicate Hair Grass
* <i>Agrostis capillaris</i> Brown Top Bent	* <i>Agrostis capillaris</i> Brown Top Bent	* <i>Agrostis capillaris</i> Brown Top Bent
		* <i>Avena barbata</i> Wild Oats
* <i>Briza minor</i> Lesser Quaking Grass	* <i>Briza minor</i> Lesser Quaking Grass	* <i>Briza minor</i> Lesser Quaking Grass
		* <i>Bromus hordeaceus</i> Soft Brome
		* <i>Holcus lanatus</i> Fog Grass
	* <i>Lagurus ovatus</i> Hare's Tail Grass	
		* <i>Vulpia bromoides</i> Squirrel Tail Fescue
* <i>Romula rosea</i> Onion Grass		

	<i>*Hypochoeris radicata</i> Flat Weed	<i>*Hypochoeris radicata</i> Flat Weed
		<i>*Isolepis levysiana</i> Tiny Flat Sedge
		<i>*Parentucellia viscosa</i> Sticky Bartsia
	<i>*Plantago lanceolata</i> Ribwort	
		<i>*Trifolium angustifolium</i> Narrow Leaf Clover

Photopoint photos.

	
C482/2A PPM 107 - 2014 Landscape View	C482/2A PPM 107 – 2016 Landscape View
	
C482/2A PPM 107 – 2014 Close up View	C482/2A PPM 107 – 2016 Close up View

MAB PPM 108

S 38°15.462'

E 143°46.301' (repositioned in 2015)

Date & time	18.10.14 10.10	16.11.15 15.42	18.11.2016 15.35
Total Vegetation Cover	80%	90%	95%
Average Height Vegetation	16.4cm	7cm	19cm
Total Native Vegetation Cover	30%	10%	40%
Graminoids	20%	5%	10%
Herbs	10%	5%	30%
Total Weeds	50%	80%	55%
Total Grasses	40%	70%	15%
Grasses – perennial	10%	0%	0%
Grasses – annual	30%	70%	15%
Dicots	10%	10%	40%
Inter-tussock space	30%	10%	35%
Bare Ground	20%	5%	5%
Litter	0%	5%	0%
Moss – present or absent	Absent	Present	Present
Biomass Monitoring Golf Ball Method		11.5 Medium - Low Biomass	2.5 High Biomass
Temperature / Wind	14°C NNW 7kph	3pm – 26°C WNW 13kph	16°C WSW 17kph

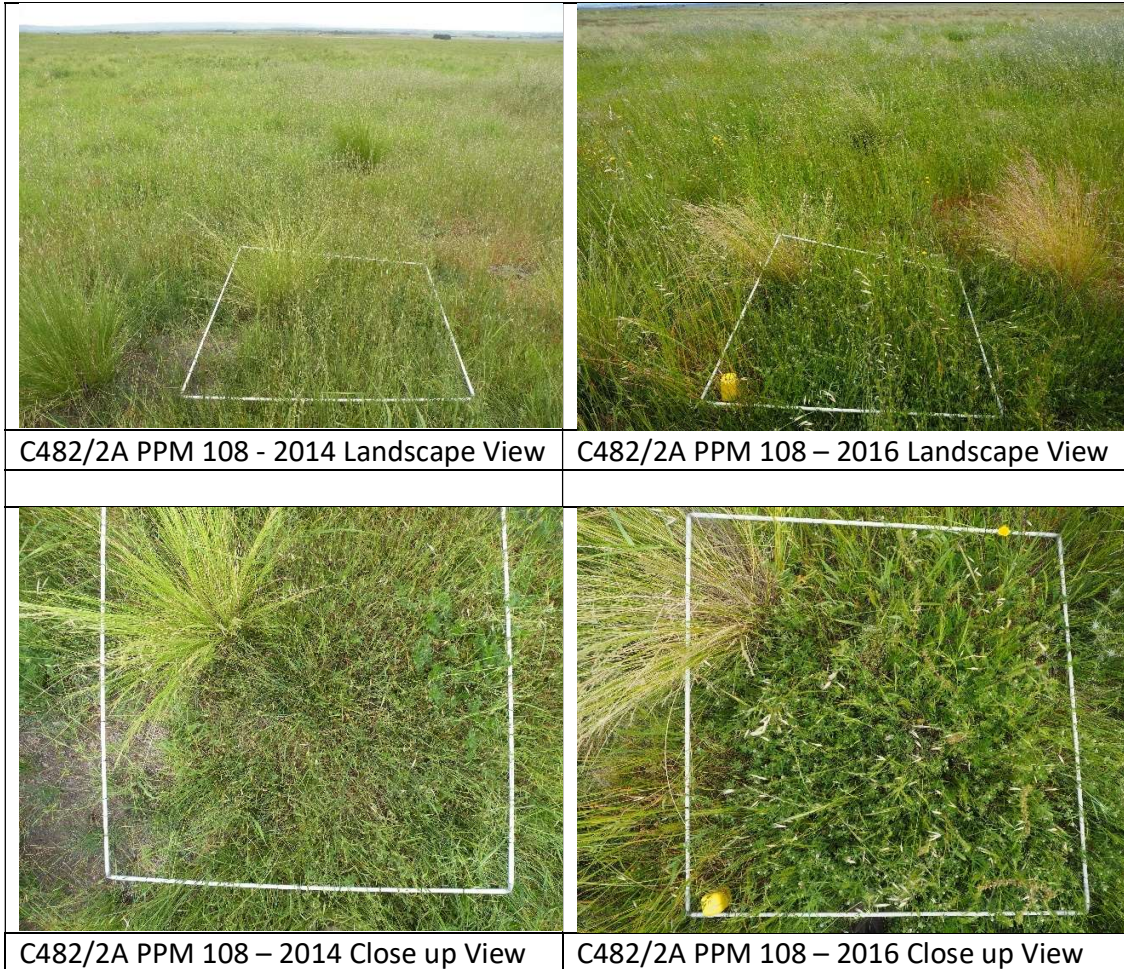
Species Recorded MAB 108 - 1 m² Plot

2014	2015	2016
	<i>Microlaena stipoides</i> Weeping Grass	
<i>Poa labillardierei</i> Silver Tussock	<i>Poa labillardierei</i> Silver Tussock	<i>Poa labillardierei</i> Silver Tussock
<i>Acaena echinata</i> Sheep's Burr	<i>Acaena echinata</i> Sheep's Burr	<i>Acaena echinata</i> Sheep's Burr
	<i>Eryngium ovinum</i> Blue Devil	
<i>Oxalis perennans</i> Wood Sorrel		<i>Oxalis perennans</i> Wood Sorrel
		<i>Rumex dumosus</i> Wiry Dock
		<i>*Aira elegantissima</i> Delicate Hair Grass
<i>*Avena barbata</i> Wild oats	<i>*Avena barbata</i> Wild oats	<i>*Avena barbata</i> Wild oats
<i>*Briza minor</i> Lesser Quaking Grass		
		<i>*Bromus hordeaceus</i> Soft Brome
<i>*Phalaris aquatica</i> Toowoomba Canary Grass	<i>*Holcus lanatus</i> Fog Grass	
	<i>*Lolium multiflorum</i> Rye Grass	
	<i>*Vulpia bromoides</i> Squirrel-tail Fescue	<i>*Vulpia bromoides</i> Squirrel-tail Fescue
		<i>*Juncus capitatus</i> Capitate Rush
<i>*Romula rosea</i> Onion Grass		
<i>*Cirsium vulgare</i> Spear Thistle		
	<i>*Hypochoeris radicata</i> Flat Weed	<i>*Hypochoeris radicata</i> Flat Weed
	<i>*Trifolium angustifolium</i> Narrow Leafed Clover	<i>*Trifolium angustifolium</i> Narrow Leafed Clover
		<i>*Trifolium dubium</i> Suckling Clover
<i>*Trifolium sp.</i> Clover		<i>*Trifolium sp.</i> Clover

MAB 108 In 5 m² Plot

2014	2015	2016
	<i>Elymus scaber</i> Australian Wheat Grass	
	<i>Microlaena stipoides</i> Weeping Grass	<i>Microlaena stipoides</i> Weeping Grass
<i>Poa labillardierei</i> Silver Tussock	<i>Poa labillardierei</i> Silver Tussock	<i>Poa labillardierei</i> Silver Tussock
<i>Lomandra nana</i> Dwarf Mat Rush		
<i>Acaena echinata</i> Sheep's Burr	<i>Acaena echinata</i> Sheep's Burr	<i>Acaena echinata</i> Sheep's Burr
	<i>Eryngium ovinum</i> Blue Devil	
<i>Oxalis perennans</i> Wood Sorrel		<i>Oxalis perennans</i> Wood Sorrel
		<i>Rumex dumosus</i> Wiry Dock
		* <i>Aira elegantissima</i> Delicate Hair Grass
* <i>Avena barbata</i> Wild oats	* <i>Avena barbata</i> Wild oats	* <i>Avena barbata</i> Wild oats
* <i>Briza minor</i> Lesser Quaking Grass		
		* <i>Bromus hordeaceus</i> Soft Brome
	* <i>Holcus lanatus</i> Fog Grass	* <i>Holcus lanatus</i> Fog Grass
	* <i>Lolium multiflorum</i> Rye Grass	
* <i>Phalaris aquatica</i> Toowoomba Canary Grass		
	* <i>Vulpia bromoides</i> Squirrel-tail Fescue	* <i>Vulpia bromoides</i> Squirrel-tail Fescue
		* <i>Juncus capitatus</i> Capitate Rush
* <i>Romula rosea</i> Onion Grass		* <i>Romula rosea</i> Onion Grass
* <i>Arctotheca calendula</i> Cape Weed		* <i>Arctotheca calendula</i> Cape Weed
* <i>Cirsium vulgare</i> Spear Thistle		* <i>Cirsium vulgare</i> Spear Thistle
* <i>Hypochoeris radicata</i> Flat Weed	* <i>Hypochoeris radicata</i> Flat Weed	* <i>Hypochoeris radicata</i> Flat Weed
	* <i>Trifolium angustifolium</i> Narrow Leafed Clover	* <i>Trifolium angustifolium</i> Narrow Leafed Clover
		* <i>Trifolium dubium</i> Suckling Clover
* <i>Trifolium sp.</i> Clover		* <i>Trifolium sp.</i> Clover

Photopoint photos.



MAB PPM 109

S 38°15.492'

E 143°46.328'

Date & time	07.12.2013 10.15	18.10.2014 11.10	16.11.2015 12.26	18.11.2016 15.00
Total Vegetation Cover	95%	94%	75%	80%
Average Height Vegetation	20.5	13.2cm	9.4cm	13.4cm
Total Native Vegetation Cover	40%	5%	30%	35%
Graminoids	35%	4%	30%	35%
Herbs	5%	1%	0%	0%
Total Weeds	55%	89%	45%	45%
Total Grasses	50%	85%	40%	40%
Grasses – perennial	45%	45%	30%	35%
Grasses – annual	5%	40%	10%	5%
Dicots	5%	4%	5%	5%
Inter-tussock space	10%	2%	0%	20%
Bare Ground	5%	1%	0%	20%
Litter	0%	5%	25%	5%
Moss – present or absent	Present	Absent	Absent	Present
Biomass Monitoring Golf Ball Method			7 - High-Medium Biomass	12.5 Medium-Low Biomass
Temperature / Wind	15°C N 6kph	19°C N 15kph	3pm - 26°C WNW 13kph	16.1°C WSW 17kph

Species Recorded MAB 109 - 1 m² Plot

2013	2014	2015	2016
	<i>Dichelachne crinita</i> Plume Grass		<i>Dichelachne crinita</i> Plume Grass
		<i>Elymus scaber</i> Australian Wheat Grass	
	<i>Rytidosperma sp.</i> Wallaby Grass		<i>Rytidosperma spp. x2</i> Wallaby Grass
<i>Themeda triandra</i> Kangaroo Grass	<i>Themeda triandra</i> Kangaroo Grass	<i>Themeda triandra</i> Kangaroo Grass	<i>Themeda triandra</i> Kangaroo Grass
			<i>Juncus bufonius</i> Toad Rush
	<i>Solenogyne dominii</i> Solenogyne		
* <i>Agrostis capillaris</i> Brown Top Bent	* <i>Agrostis capillaris</i> Brown Top Bent	* <i>Agrostis capillaris</i> Brown Top Bent	* <i>Agrostis capillaris</i> Brown Top Bent
* <i>Briza minor</i> Lesser Quaking Grass	* <i>Briza minor</i> Lesser Quaking Grass		* <i>Briza minor</i> Lesser Quaking Grass
* <i>Lagurus ovatus</i> Hare's Tail Grass			
		* <i>Vulpia bromoides</i> Squirrel Tail Fescue	
			* <i>Isolepis levysiana</i> Tiny Flat Sedge
	* <i>Romula rosea</i> Onion Grass		* <i>Romula rosea</i> Onion Grass
* <i>Hypochoeris radicata</i> Flat Weed	* <i>Hypochoeris radicata</i> Flat Weed	* <i>Hypochoeris radicata</i> Flat Weed	* <i>Hypochoeris radicata</i> Flat Weed
			* <i>Trifolium angustifolium</i> Narrow Leaf Clover
	* <i>Trifolium sp</i> Clover		* <i>Trifolium sp</i> Clover

MAB 109 In 5 m² Plot

2013	2014	2015	2016
	<i>Austrostipa sp</i> Spear Grass	<i>Austrostipa sp</i> Spear Grass	<i>Austrostipa sp</i> Spear Grass
<i>Dichelachne crinita</i> Plume Grass	<i>Dichelachne crinita</i> Plume Grass	<i>Dichelachne crinita</i> Plume Grass	<i>Dichelachne crinita</i> Plume Grass
		<i>Elymus scaber</i> Australian Wheat Grass	<i>Elymus scaber</i> Australian Wheat Grass
			<i>Lachnagrostis aemula</i> Blown Grass
<i>Poa labillardierei</i> Silver Tussock	<i>Poa labillardierei</i> Silver Tussock		<i>Poa labillardierei</i> Silver Tussock
<i>Rytidosperma spp</i> x2. Wallaby Grass	<i>Rytidosperma spp.</i> x2 Wallaby Grass	<i>Rytidosperma spp</i> x3. Wallaby Grass	<i>Rytidosperma spp.</i> x3 Wallaby Grass
<i>Themeda triandra</i> Kangaroo Grass	<i>Themeda triandra</i> Kangaroo Grass	<i>Themeda triandra</i> Kangaroo Grass	<i>Themeda triandra</i> Kangaroo Grass
			<i>Juncus bufonius</i> Toad Rush
			<i>Microtis unifolia</i> Onion Orchid
			<i>Acaena echinata</i> Sheep's Burr
<i>Convolvulus erubescens</i> Blushing Bind weed		<i>Convolvulus erubescens</i> Blushing Bind weed	<i>Convolvulus erubescens</i> Blushing Bind weed
			<i>Drosera peltata</i> Pale Sundew
	<i>Eryngium ovinum</i> Blue Devil	<i>Eryngium ovinum</i> Blue Devil	<i>Eryngium ovinum</i> Blue Devil
	<i>Solenogyne dominii</i> Solenogyne		
* <i>Agrostis capillaris</i> Brown Top Bent	* <i>Agrostis capillaris</i> Brown Top Bent	* <i>Agrostis capillaris</i> Brown Top Bent	* <i>Agrostis capillaris</i> Brown Top Bent
* <i>Briza minor</i> Lesser Quaking Grass	* <i>Briza minor</i> Lesser Quaking Grass		* <i>Briza minor</i> Lesser Quaking Grass
* <i>Holcus lanatus</i> Fog Grass			
* <i>Lagurus ovatus</i> Hare's Tail Grass			
* <i>Lolium multiflorum</i> Rye Grass			
		* <i>Vulpia bromoides</i> Squirrel Tail Fescue	
			* <i>Isolepis levysiana</i> Tiny Flat Sedge
	* <i>Romula rosea</i> Onion Grass		* <i>Romula rosea</i> Onion Grass
* <i>Hypochoeris radicata</i> Flat Weed	* <i>Hypochoeris radicata</i> Flat Weed	* <i>Hypochoeris radicata</i> Flat Weed	* <i>Hypochoeris radicata</i> Flat Weed

	* <i>Trifolium angustifolium</i> Narrow Leaf Clover		* <i>Trifolium angustifolium</i> Narrow Leaf Clover
	* <i>Trifolium sp</i> Clover		* <i>Trifolium sp</i> Clover

Photopoint photos.

	
C482/2A PPM 109 – 2013 Landscape View	C482/2A PPM 109 – 2016 Landscape View
	
C482/2A PPM 109 – 2013 Close up View	C482/2A PPM 109 – 2016 Close up View

MAB PPM 110

S 38°15.488'

E 143°46.275'

Date & time	07.12.13 10.34	18.10.2014 11.10	16.11.15 12.03	23.11.2016 13.30
Total Vegetation Cover	93%	60%	55%	90%
Average Height Vegetation	10.34cm	8.66cm	7.4cm	12.8 cm
Total Native Vegetation Cover	83%	50%	50%	60%
Graminoids	53%	10%	25%	30%
Herbs	30%	40%	25%	30%
Total Weeds	10%	10%	5%	30%
Total Grasses	5%	2%	3%	29%
Grasses – perennial	5%	0%	0%	0%
Grasses – annual	0%	2%	3%	29%
Dicots	5%	8%	2%	1%
Inter-tussock space	35%	80%	65%	40%
Bare Ground	5%	40%	40%	10%
Litter	2%	%	5%	5%
Moss – present or absent	Absent	Absent	Absent	Present
Biomass Monitoring Golf Ball Method			13.5 Medium – Low Biomass	12 Medium – Low Biomass
Temperature / Wind	17°C N 10kph	18°C NNW 12kph	3pm 26°C WNW 13kph	13.6°C SSW 39 kph

Species Recorded I MAB 110 - 1 m² Plot

2013	2014	2015	2016
			<i>Austrostipa sp.</i> Spear Grass
<i>Dichelachne crinita</i> Plume Grass	<i>Dichelachne crinita</i> Plume Grass	<i>Dichelachne crinita</i> Plume Grass	<i>Dichelachne crinita</i> Plume Grass
			<i>Lachnagrostis aemula</i> Blown Grass
<i>Poa labillardierei</i> Silver Tussock	<i>Poa labillardierei</i> Silver Tussock	<i>Poa labillardierei</i> Silver Tussock	<i>Poa labillardierei</i> Silver Tussock
<i>Rytidosperma sp.</i> Wallaby Grass	<i>Rytidosperma sp.</i> Wallaby Grass	<i>Rytidosperma spp. x2</i> Wallaby Grass	<i>Rytidosperma spp. x2</i> Wallaby Grass
			<i>Juncus bufonius</i> Toad Rush
<i>Microtis unifolia</i> Onion Orchid			
<i>Acaena echinata</i> Sheep's Burr	<i>Acaena echinata</i> Sheep's Burr	<i>Acaena echinata</i> Sheep's Burr	<i>Acaena echinata</i> Sheep's Burr
	<i>Asperula conferta</i> Woodruff	<i>Asperula conferta</i> Woodruff	<i>Asperula conferta</i> Woodruff
<i>Convolvulus erubescens</i> Blushing Bind Weed	<i>Convolvulus erubescens</i> Blushing Bind Weed	<i>Convolvulus erubescens</i> Blushing Bind Weed	<i>Convolvulus erubescens</i> Blushing Bind Weed
	<i>Dichondra repens</i> Kidney Weed	<i>Dichondra repens</i> Kidney Weed	<i>Dichondra repens</i> Kidney Weed
<i>Eryngium ovinum</i> Blue Devil	<i>Eryngium ovinum</i> Blue Devil	<i>Eryngium ovinum</i> Blue Devil	<i>Eryngium ovinum</i> Blue Devil
	<i>Oxalis perennans</i> Grassland Wood Sorrel		<i>Oxalis perennans</i> Grassland Wood Sorrel
	<i>Schoenus apogon</i> Common Bog Sedge		
			<i>Veronica gracilis</i> Veronica
<i>*Aira elegantissima</i> Delicate Hair Grass			
<i>*Anthoxanthum odoratum</i> Sweet Vernel Grass			
<i>*Briza minor</i> Lesser Quaking Grass	<i>*Briza minor</i> Lesser Quaking Grass		<i>*Briza minor</i> Lesser Quaking Grass
			<i>*Holcus lanatus</i> Fog Grass
<i>*Phalaris aquatica</i> Toowoomba Canary Grass			
<i>*Vulpia bromoides</i> Squirrel Tail Fescue		<i>*Vulpia bromoides</i> Squirrel Tail Fescue	<i>*Vulpia bromoides</i> Squirrel Tail Fescue
			<i>*Isolepis levysiana</i> Tiny Flat Sedge
<i>*Romula rosea</i> Onion Grass			<i>*Romula rosea</i> Onion Grass
<i>*Hypochoeris radicata</i> Flat Weed	<i>*Hypochoeris radicata</i> Flat Weed	<i>*Hypochoeris radicata</i> Flat Weed	<i>*Hypochoeris radicata</i> Flat Weed

MAB 110 In 5 m² Plot

2013	2014	2015	2016
	<i>Ausrostipa sp</i> Spear Grass		<i>Austrostipa sp.</i> Spear Grass
<i>Dichelachne crinita</i> Plume Grass	<i>Dichelachne crinita</i> Plume Grass	<i>Dichelachne crinita</i> Plume Grass	<i>Dichelachne crinita</i> Plume Grass
			<i>Lachnagrostis aemula</i> Blown Grass
<i>Poa labillardierei</i> Silver Tussock	<i>Poa labillardierei</i> Silver Tussock	<i>Poa labillardierei</i> Silver Tussock	<i>Poa labillardierei</i> Silver Tussock
<i>Rytidosperma sp.</i> Wallaby Grass	<i>Rytidosperma sp.</i> Wallaby Grass	<i>Rytidosperma spp</i> x2Wallaby Grass	<i>Rytidosperma spp.</i> x2 Wallaby Grass
			<i>Juncus bufonius</i> Toad Rush
<i>Microtis unifolia</i> Onion Orchid			
<i>Acaena echinata</i> Sheep's Burr	<i>Acaena echinata</i> Sheep's Burr	<i>Acaena echinata</i> Sheep's Burr	<i>Acaena echinata</i> Sheep's Burr
	<i>Asperula conferta</i> Woodruff	<i>Asperula conferta</i> Woodruff	<i>Asperula conferta</i> Woodruff
<i>Convolvulus erubescens</i> Blushing Bind Weed	<i>Convolvulus erubescens</i> Blushing Bind Weed	<i>Convolvulus erubescens</i> Blushing Bind Weed	<i>Convolvulus erubescens</i> Blushing Bind Weed
	<i>Dichondra repens</i> Kidney Weed	<i>Dichondra repens</i> Kidney Weed	<i>Dichondra repens</i> Kidney Weed
<i>Eryngium ovinum</i> Blue Devil	<i>Eryngium ovinum</i> Blue Devil	<i>Eryngium ovinum</i> Blue Devil	<i>Eryngium ovinum</i> Blue Devil
	<i>Oxalis perennans</i> Grassland Wood Sorrel		<i>Oxalis perennans</i> Grassland Wood Sorrel
	<i>Schoenus apogon</i> Common Bog Sedge		
	<i>Veronica gracilis</i> Slender Speedwell		<i>Veronica gracilis</i> Veronica
<i>*Aira elegantissima</i> Delicate Hair Grass			
<i>*Anthoxanthum odoratum</i> Sweet Vernel Grass			
<i>*Briza minor</i> Lesser Quaking Grass	<i>*Briza minor</i> Lesser Quaking Grass		<i>*Briza minor</i> Lesser Quaking Grass
			<i>*Holcus lanatus</i> Fog Grass
<i>*Phalaris aquatica</i> Toowoomba Canary Grass			
<i>*Vulpia bromoides</i> Squirrel Tail Fescue		<i>*Vulpia bromoides</i> Squirrel Tail Fescue	<i>*Vulpia bromoides</i> Squirrel Tail Fescue
			<i>*Isolepis levysiana</i> Tiny Flat Sedge
<i>*Romula rosea</i> Onion Grass			<i>*Romula rosea</i> Onion Grass

	<i>*Cirsium vulgare</i> Spear Thistle	<i>*Cirsium vulgare</i> Spear Thistle	
<i>*Hypochoeris radicata</i> Flat Weed	<i>*Hypochoeris radicata</i> Flat Weed	<i>*Hypochoeris radicata</i> Flat Weed	<i>*Hypochoeris radicata</i> Flat Weed

Photopoint photos.

	
C482/2A PPM 110 – 2013 Landscape View	C482/2A PPM 110 – 2016 Landscape View
	
C482/2A PPM 110 – 2013 Close up View	C482/2A PPM 110 – 2016 Close up View

MAB PPM 111

S 38°15.473'

E 143°46.139'

Date & time	07.12.13 11.20	23.10.14 15.45	16.11.15 17.00	22.11.2016 16.20
Total Vegetation Cover	95%	80%	80%	85%
Average Height Vegetation	15 cm	11.6cm	8cm	14.4cm
Total Native Vegetation Cover	10%	20%	40%	40%
Graminoids	5%	10%	30%	35%
Herbs	5%	10%	10%	5%
Total Weeds	85%	60%	40%	45%
Total Grasses	65%	30%	30%	25%
Grasses – perennial	45%	0%	5%	10%
Grasses – annual	20%	30%	25%	15%
Dicots	20%	30%	10%	20%
Inter-tussock space	5%	30%	20%	20%
Bare Ground	0%	20%	10%	15%
Litter	5%	0%	10%	5%
Moss – present or absent	Present	Absent	Present	Present
Biomass Monitoring Golf Ball Method			9.5 Medium-Biomass	10 Medium Biomass
Temperature / Wind	22°C wind not recorded	15°C E 31 kph	3pm 26°C WNW 13kph	16.3°C ENE 19kph

Species Recorded MAB 111 - 1 m² Plot

2013	2014	2015	2016
<i>Austrostipa sp.</i> Spear Grass	<i>Austrostipa sp.</i> Spear Grass	<i>Austrostipa sp.</i> Spear Grass	<i>Austrostipa sp.</i> Spear Grass
<i>Microlaena stipoides</i> Weeping Grass			
	<i>Rytidosperma sp.</i> Wallaby Grass	<i>Rytidosperma spp</i> x2. Wallaby Grass	<i>Rytidosperma spp</i> x2. Wallaby Grass
<i>Arthropodium strictum</i> Chocolate Lily	<i>Arthropodium strictum</i> Chocolate Lily	<i>Arthropodium strictum</i> Chocolate Lily	<i>Arthropodium strictum</i> Chocolate Lily
<i>Microtis unifolia</i> Onion Orchid			
<i>Acaena ovina</i> Sheep's Burr	<i>Acaena ovina</i> Sheep's Burr	<i>Acaena ovina</i> Sheep's Burr	<i>Acaena ovina</i> Sheep's Burr
	<i>Geranium retrorsum</i> Grassland's Crane's Bill		<i>Geranium retrorsum</i> Grassland's Crane's Bill
	<i>Oxalis perennans</i> Wood Sorrel		<i>Oxalis perennans</i> Wood Sorrel
<i>Rumex dumosus</i> Wiry Dock			
<i>*Aira elegantissima</i> Delicate Hair Grass		<i>*Aira elegantissima</i> Delicate Hair Grass	<i>*Aira elegantissima</i> Delicate Hair Grass
	<i>*Avena barbata</i> Wild Oats	<i>*Avena barbata</i> Wild Oats	<i>*Avena barbata</i> Wild Oats
<i>*Briza minor</i> Lesser Quaking Grass	<i>*Briza minor</i> Lesser Quaking Grass		<i>*Briza minor</i> Lesser Quaking Grass
<i>*Bromus hordeaceus</i> Soft Brome	<i>*Bromus hordeaceus</i> Soft Brome		<i>*Bromus hordeaceus</i> Soft Brome
		<i>*Holcus lanatus</i> Fog Grass	<i>*Holcus lanatus</i> Fog Grass
<i>*Lolium multiflorum</i> Ryegrass		<i>*Lolium multiflorum</i> Ryegrass	<i>*Lolium multiflorum</i> Ryegrass
		<i>*Vulpia bromoides</i> Squirrel Tail Fescue	<i>*Vulpia bromoides</i> Squirrel Tail Fescue
	<i>*Romula rosea</i> Onion Grass		
		<i>*Cirsium vulgare</i> Spear Thistle	<i>*Cirsium vulgare</i> Spear Thistle
<i>*Hypochoeris radicata</i> Flat Weed	<i>*Hypochoeris radicata</i> Flat Weed	<i>*Hypochoeris radicata</i> Flat Weed	<i>*Hypochoeris radicata</i> Flat Weed
			<i>*Trifolium angustifolium</i> Narrow Leaf Clover
<i>*Trifolium sp</i> Clover	<i>*Trifolium sp</i> Clover		<i>*Trifolium sp</i> Clover

MAB 111 In 5 m² Plot

2013	2014	2015	2016
<i>Austrostipa sp.</i> Spear Grass	<i>Austrostipa sp.</i> Spear Grass	<i>Austrostipa sp.</i> Spear Grass	<i>Austrostipa sp.</i> Spear Grass
		<i>Elymus scaber</i> Australian Wheat Grass	
		<i>Lachnagrostis aemula</i> Leafy Blown Grass	<i>Lachnagrostis aemula</i> Leafy Blown Grass
<i>Microlaena stipoides</i> Weeping Grass			
	<i>Rytidosperma sp.</i> x3 Wallaby Grass	<i>Rytidosperma sp.</i> x2 allaby Grass	<i>Rytidosperma spp</i> x3. Wallaby Grass
<i>Themeda triandra</i> Kangaroo Grass	<i>Themeda triandra</i> Kangaroo Grass	<i>Themeda triandra</i> Kangaroo Grass	<i>Themeda triandra</i> Kangaroo Grass
<i>Arthropodium strictum</i> Chocolate Lily	<i>Arthropodium strictum</i> Chocolate Lily	<i>Arthropodium strictum</i> Chocolate Lily	<i>Arthropodium strictum</i> Chocolate Lily
<i>Microtis unifolia</i> Onion Orchid	<i>Microtis unifolia</i> Onion Orchid		
<i>Acaena ovina</i> Sheep's Burr	<i>Acaena ovina</i> Sheep's Burr	<i>Acaena ovina</i> Sheep's Burr	<i>Acaena echinata</i> Sheep's Burr
	<i>Asperula conferta</i> Common Woodruff		<i>Asperula conferta</i> Common Woodruff
			<i>Crassula sieberiana</i> Stone Crop
	<i>Cynoglossum suaveolens</i> Sweet Hound's Tongue		
			<i>Eryngium ovinum</i> Blue Devil
	<i>Geranium retrorsum</i> Grassland's Crane's Bill		<i>Geranium retrorsum</i> Grassland's Crane's Bill
	<i>Oxalis perennans</i> Wood Sorrel		<i>Oxalis perennans</i> Wood Sorrel
<i>Rumex dumosus</i> Wiry Dock			
* <i>Aira elegantissima</i> Delicate Hair Grass		* <i>Aira elegantissima</i> Delicate Hair Grass	* <i>Aira elegantissima</i> Delicate Hair Grass
	* <i>Avena barbata</i> Wild Oats	* <i>Avena barbata</i> Wild Oats	* <i>Avena barbata</i> Wild Oats
* <i>Briza minor</i> Lesser Quaking Grass	* <i>Briza minor</i> Lesser Quaking Grass		* <i>Briza minor</i> Lesser Quaking Grass
* <i>Bromus hordeaceus</i> Soft Brome	* <i>Bromus hordeaceus</i> Soft Brome		* <i>Bromus hordeaceus</i> Soft Brome
		* <i>Holcus lanatus</i> Fog Grass	* <i>Holcus lanatus</i> Fog Grass
* <i>Lagurus ovatus</i> Hare's Tail Grass			
* <i>Lolium multiflorum</i> Ryegrass		* <i>Lolium multiflorum</i> Ryegrass	* <i>Lolium multiflorum</i> Ryegrass
		* <i>Vulpia bromoides</i> Squirrel Tail Fescue	* <i>Vulpia bromoides</i> Squirrel Tail Fescue

	<i>*Romula rosea</i> Onion Grass		
<i>*Cirsium vulgare</i> Spear Thistle		<i>*Cirsium vulgare</i> Spear Thistle	<i>*Cirsium vulgare</i> Spear Thistle
<i>*Hypochoeris radicata</i> Flat Weed	<i>*Hypochoeris radicata</i> Flat Weed	<i>*Hypochoeris radicata</i> Flat Weed	<i>*Hypochoeris radicata</i> Flat Weed
<i>*Parentucellia latifolia</i> Red Bartsia	<i>*Parentucellia latifolia</i> Red Bartsia		
			<i>*Trifolium angustifolium</i> Narrow Leaf Clover
<i>*Trifolium sp</i> Clover	<i>*Trifolium sp</i> Clover		<i>*Trifolium sp</i> Clover

Photopoint photos.

	
C482/2A PPM 111 – 2013 Landscape View	C482/2A PPM 111 – 2016 Landscape View
	
C482/2A PPM 111 – 2013 Close up View	C482/2A PPM 111 – 2016 Close up View

MAB PPM 112

S 38°15.535'

E 143°46.168'

Date & time	27.11.2014 10.28	21.11.15 16.44	23.11.2016 11.55
Total Vegetation Cover	65%	85%	80%
Average Height Vegetation	12.6 cm	5.6cm	13.2cm
Total Native Vegetation Cover	20%	55%	50%
Graminoids	15%	30%	30%
Herbs	5%	25%	20%
Total Weeds	45%	30%	30%
Total Grasses	40%	25%	25%
Grasses – perennial	5%	5%	5%
Grasses – annual	35%	20%	20%
Dicots	5%	5%	5%
Inter-tussock space	15%	35%	40%
Bare Ground	10%	10%	20%
Litter	25%	5%	0%
Moss – present or absent	Present	Present	Present
Biomass Monitoring Golf Ball Method		11 Medium – Low Biomass	12.5 Medium Low Biomass
Temperature / Wind	14.4°C ENE 20 kph	3pm 14°C SW 24kph	12°C SSW 28kph

Species Recorded MAB 112 - 1 m² Plot

2014	2015	2016
	<i>Dichelachne crinata</i> Plume Grass	<i>Dichelachne crinata</i> Plume Grass
<i>Rytidosperma</i> spp. Wallaby Grass x 2	<i>Rytidosperma</i> spp. Wallaby Grass x 4	<i>Rytidosperma</i> spp. Wallaby Grass x 4
	<i>Themeda triandra</i> Kangaroo Grass	<i>Themeda triandra</i> Kangaroo Grass
		<i>Juncus bufonius</i> Toad Rush
	<i>Lomandra nana</i> Dwarf Mat Rush	
		<i>Microtis unifolia</i> Onion Orchid
	<i>Asperula conferta</i> Common Woodruff	<i>Asperula conferta</i> Common Woodruff
	<i>Convolvulus angustissimus</i> Blushing Bind Weed	
<i>Eryngium ovinum</i> Blue Devil	<i>Eryngium ovinum</i> Blue Devil	<i>Eryngium ovinum</i> Blue Devil
<i>Leptorhynchos squamatus</i> Scaly Buttons	<i>Leptorhynchos squamatus</i> Scaly Buttons	<i>Leptorhynchos squamatus</i> Scaly Buttons
		<i>Oxalis perennans</i> Grassland Wood Sorrel
* <i>Aira elegantissima</i> Delicate Hair Grass	* <i>Aira elegantissima</i> Delicate Hair Grass	
* <i>Agrostis capillaris</i> Brown Top Bent	* <i>Agrostis capillaris</i> Brown Top Bent	* <i>Agrostis capillaris</i> Brown Top Bent
* <i>Briza minor</i> Lesser Quaking Grass		* <i>Briza minor</i> Lesser Quaking Grass
* <i>Lagurus ovatus</i> Hare's Tail Grass		
* <i>Vulpia bromoides</i> Squirrel Tail Fescue	* <i>Vulpia bromoides</i> Squirrel Tail Fescue	
* <i>Romula rosea</i> Onion Grass		* <i>Romula rosea</i> Onion Grass
		* <i>Centaurium erythraea</i> Common Centaury
* <i>Hypochoeris radicata</i> Flat Weed	* <i>Hypochoeris radicata</i> Flat Weed	* <i>Hypochoeris radicata</i> Flat Weed
	* <i>Plantago lanceolata</i> Ribwort	
* <i>Trifolium augustifolia</i> Narrow Leaf Clover		
* <i>Trifolium</i> sp. Clover		* <i>Trifolium</i> sp. Clover

MAB 112 In 5 m² Plot

2014	2015	2016
	<i>Austrostipa</i> sp. Spear Grass	
<i>Dichelachne crinita</i> Plume Grass	<i>Dichelachne crinita</i> Plume Grass	<i>Dichelachne crinita</i> Plume Grass
<i>Elymus scaber</i> Australian Wheat Grass	<i>Elymus scaber</i> Australian Wheat Grass	
	<i>Poa labillardierei</i> Silver Tussock	<i>Poa labillardierei</i> Silver Tussock
<i>Rytidosperma</i> spp Wallaby Grass x 3	<i>Rytidosperma</i> spp Wallaby Grass x 5	<i>Rytidosperma</i> spp. Wallaby Grass x 4
	<i>Themeda triandra</i> Kangaroo Grass	<i>Themeda triandra</i> Kangaroo Grass
		<i>Juncus bufonius</i> Toad Rush
		<i>Microtis unifolia</i> Onion Orchid
	<i>Acaena echinata</i> Sheep's Burr	<i>Acaena echinata</i> Sheep's Burr
	<i>Asperula conferta</i> Common Woodruff	<i>Asperula conferta</i> Common Woodruff
	<i>Convolvulus angustissimus</i> Blushing Bind Weed	<i>Convolvulus angustissimus</i> Blushing Bind Weed
<i>Eryngium ovinum</i> Blue Devil	<i>Eryngium ovinum</i> Blue Devil	<i>Eryngium ovinum</i> Blue Devil
<i>Leptorhynchus squamatus</i> Scaly Buttons	<i>Leptorhynchus squamatus</i> Scaly Buttons	<i>Leptorhynchus squamatus</i> Scaly Buttons
	<i>Lomandra nana</i> Dwarf Mat Rush	
		<i>Oxalis perennans</i> Grassland Wood Sorrel
* <i>Aira elegantissima</i> Delicate Hair Grass	* <i>Aira elegantissima</i> Delicate Hair Grass	
* <i>Agrostis capillaris</i> Brown Top Bent	* <i>Agrostis capillaris</i> Brown Top Bent	* <i>Agrostis capillaris</i> Brown Top Bent
* <i>Briza minor</i> Lesser Quaking Grass		* <i>Briza minor</i> Lesser Quaking Grass
* <i>Lagurus ovatus</i> Hare's Tail Grass		
* <i>Vulpia bromoides</i> Squirrel Tail Fescue	* <i>Vulpia bromoides</i> Squirrel Tail Fescue	
* <i>Romula rosea</i> Onion Grass		* <i>Romula rosea</i> Onion Grass
		* <i>Centaurium erythraea</i> Common Centaury
	* <i>Cuscuta planiflora</i> Dodder	
* <i>Hypochoeris radicata</i> Flat Weed	* <i>Hypochoeris radicata</i> Flat Weed	* <i>Hypochoeris radicata</i> Flat Weed
	* <i>Plantago lanceolata</i> Ribwort	
* <i>Trifolium augustifolia</i> Narrow Leaf Clover	* <i>Trifolium augustifolia</i> Narrow Leaf Clover	* <i>Trifolium augustifolia</i> Narrow Leaf Clover
* <i>Trifolium</i> sp.Clover		* <i>Trifolium</i> sp.Clover

Photopoint photos.

 A wide-angle photograph of a grassy field. A white rectangular frame is drawn on the ground, and a yellow marker is visible at the bottom left corner of the frame. The grass is a mix of green and brown, and the background shows a flat horizon under a clear sky.	 A wide-angle photograph of the same grassy field as in 2014. The white rectangular frame and yellow marker are still present. The vegetation appears slightly more lush and green compared to 2014.
C482/2A PPM 112 – 2014 Landscape View	C482/2A PPM 112 – 2016 Landscape View
 A close-up photograph of the ground within the white rectangular frame. The grass is dry and brown, with some small green plants and yellow flowers scattered throughout.	 A close-up photograph of the ground within the white rectangular frame. The grass is greener and more vibrant than in 2014, with more prominent yellow flowers and small green plants.
C482/2A PPM 112 – 2014 Close up View	C482/2A PPM 112 – 2016 Close up View

MAB PPM 113

S 38°15.537'

E 143°46.109'

Date & time	30.11.2014 10.00	16.11.15 10.03	23.11.2016 12.35
Total Vegetation Cover	55%	55%	60%
Average Height Vegetation	6.2 cm	4cm	7.2cm
Total Native Vegetation Cover	40%	50%	40%
Graminoids	35%	45%	39%
Herbs	5%	5%	1%
Total Weeds	15%	5%	20%
Total Grasses	5%	3%	18%
Grasses – perennial	0%	0%	0%
Grasses – annual	5%	3%	18%
Dicots	10%	2%	2%
Inter-tussock space	50%	45%	41%
Bare Ground	45%	40%	40%
Litter	0%	5%	0%
Moss – present or absent	Present	Absent	Present
Biomass Monitoring Golf Ball Method		15.5 Low Biomass	13.5 Medium Low Biomass
Temperature / Wind	20.2°C E 17 kph	9am 15°C E 19 kph	12.3°C SSW 30kph

Species Recorded MAB 113 - 1 m² Plot

2014	2015	2016
<i>Elymus scaber</i> Australian Wheat Grass		
<i>Themeda triandra</i> Kangaroo Grass	<i>Themeda triandra</i> Kangaroo Grass	<i>Themeda triandra</i> Kangaroo Grass
		<i>Juncus bufonius</i> Toad Rush
<i>Asperula conferta</i> Common Woodruff	<i>Asperula conferta</i> Common Woodruff	<i>Asperula conferta</i> Common Woodruff
<i>Oxalis perennans</i> Wood Sorrel		<i>Oxalis perennans</i> Wood Sorrel
* <i>Aira elegantissima</i> Delicate Hair Grass		* <i>Aira elegantissima</i> Delicate Hair Grass
* <i>Briza minor</i> Lesser Quaking Grass		* <i>Briza minor</i> Lesser Quaking Grass
* <i>Vulpia bromoides</i> Squirrel Tail Fescue	* <i>Vulpia bromoides</i> Squirrel Tail Fescue	* <i>Vulpia bromoides</i> Squirrel Tail Fescue
		* <i>Isolepis levynsiana</i> Tiny Flat Sedge
* <i>Romula rosea</i> Onion Grass		* <i>Romula rosea</i> Onion Grass
* <i>Cirsium vulgare</i> Spear Thistle	* <i>Cirsium vulgare</i> Spear Thistle	
* <i>Hypochoeris radicata</i> Flat Weed	* <i>Hypochoeris radicata</i> Flat Weed	* <i>Hypochoeris radicata</i> Flat Weed
* <i>Tragapogon porrifolius</i> Salsify		
* <i>Trifolium augustifolium</i> Narrow Leaf Clover	* <i>Trifolium augustifolium</i> Narrow Leaf Clover	* <i>Trifolium augustifolium</i> Narrow Leaf Clover

MAB 113 In 5 m² Plot

2014	2015	2016
<i>Austrostipa</i> sp. Spear Grass		<i>Austrostipa</i> sp. Spear Grass
<i>Elymus scaber</i> Australian Wheat Grass		
<i>Dichelachne crinita</i> Plume Grass	<i>Dichelachne crinita</i> Plume Grass	<i>Dichelachne crinita</i> Plume Grass
<i>Poa labillardierei</i> Silver tussock	<i>Poa labillardierei</i> Silver tussock	<i>Poa labillardierei</i> Silver tussock
	<i>Poa morrisii</i> Velvet Tussock	
<i>Rytidosperma</i> spp. Wallaby Grass x3	<i>Rytidosperma</i> spp. Wallaby Grass	
<i>Themeda triandra</i> Kangaroo Grass	<i>Themeda triandra</i> Kangaroo Grass	<i>Themeda triandra</i> Kangaroo Grass
		<i>Juncus bufonius</i> Toad Rush
<i>Acaena echinata</i> Sheep's Burr		
<i>Asperula conferta</i> Common Woodruff	<i>Asperula conferta</i> Common Woodruff	<i>Asperula conferta</i> Common Woodruff
<i>Eryngium ovinum</i> Blue Devil	<i>Eryngium ovinum</i> Blue Devil	
<i>Oxalis perennans</i> Wood Sorrel		<i>Oxalis perennans</i> Wood Sorrel
		<i>Rumex dumosus</i> Wiry Dock
* <i>Aira elegantissima</i> Delicate Hair Grass	* <i>Aira elegantissima</i> Delicate Hair Grass	* <i>Aira elegantissima</i> Delicate Hair Grass
	* <i>Avena barbata</i> Wild Oats	* <i>Avena barbata</i> Wild Oats
* <i>Briza minor</i> Lesser Quaking Grass		* <i>Briza minor</i> Lesser Quaking Grass
* <i>Holcus lanatus</i> Fog Grass		* <i>Holcus lanatus</i> Fog Grass
* <i>Vulpia bromoides</i> Squirrel Tail Fescue	* <i>Vulpia bromoides</i> Squirrel Tail Fescue	* <i>Vulpia bromoides</i> Squirrel Tail Fescue
		* <i>Isolepis levynsiana</i> Tiny Flat Sedge
* <i>Romula rosea</i> Onion Grass		* <i>Romula rosea</i> Onion Grass
* <i>Centaurium tenuiflorum</i> Slender Century		
* <i>Cirsium vulgare</i> Spear Thistle	* <i>Cirsium vulgare</i> Spear Thistle	* <i>Cirsium vulgare</i> Spear Thistle
* <i>Hypochoeris radicata</i> Flat Weed	* <i>Hypochoeris radicata</i> Flat Weed	* <i>Hypochoeris radicata</i> Flat Weed
* <i>Tragapogon porrifolius</i> Salsify	* <i>Tragapogon porrifolius</i> Salsify	* <i>Tragapogon porrifolius</i> Salsify
* <i>Trifolium augustifolium</i> Narrow Leaf Clover	* <i>Trifolium augustifolium</i> Narrow Leaf Clover	* <i>Trifolium augustifolium</i> Narrow Leaf Clover

Photopoint photos.

	
C482/2A PPM 113 – 2014 Landscape View	C482/2A PPM 113 – 2016 Landscape View
	
C482/2A PPM 113 – 2014 Close up View	C482/2A PPM 113 – 2016 Close up View

MAB PPM 114

S 38°15.513'

E 143°46.188'

Date & time	30.11.2014 10.40	21.11.15 15.45	23.11.2016 11.30
Total Vegetation Cover	90%	85%	100%
Average Height Vegetation	15.8 cm	7.8cm	15.2cm
Total Native Vegetation Cover	45%	55%	50%
Graminoids	40%	50%	45%
Herbs	5%	5%	5%
Total Weeds	45%	30%	50%
Total Grasses	45%	29%	45%
Grasses – perennial	0%	5%	0%
Grasses – annual	45%	24%	45%
Dicots	0%	1%	5%
Inter-tussock space	15%	10%	5%
Bare Ground	10%	5%	0%
Litter	0%	10%	0%
Moss – present or absent	Absent	Absent	Present
Biomass Monitoring Golf Ball Method		10.5 Medium Biomass	9.5 Medium Biomass
Temperature / Wind	22°C ENE 13 kph	3pm14°C SW 24kph	13°C SSW 22kph

Species Recorded MAB 114 - 1 m² Plot

2014	2015	2016
<i>Dichelachne crinita</i> Plume Grass	<i>Dichelachne crinita</i> Plume Grass	
<i>Rytidosperma sp.</i> Wallaby Grass		
<i>Themeda triandra</i> Kangaroo Grass	<i>Themeda triandra</i> Kangaroo Grass	<i>Themeda triandra</i> Kangaroo Grass
		<i>Juncus bufonius</i> Toad Rush
		<i>Acaena echinata</i> Sheep's Burr
<i>Convolvulus erubescens</i> Blushing Bind Weed	<i>Convolvulus erubescens</i> Blushing Bind Weed	<i>Convolvulus erubescens</i> Blushing Bind Weed
* <i>Aira elegantissima</i> Delicate Hair Grass		* <i>Aira elegantissima</i> Delicate Hair Grass
		* <i>Briza minor</i> Lesser Quaking Grass
* <i>Holcus lanatus</i> Fog Grass	* <i>Holcus lanatus</i> Fog Grass	
* <i>Vulpia bromoides</i> Squirrel Tail Fescue	* <i>Vulpia bromoides</i> Squirrel Tail Fescue	* <i>Vulpia bromoides</i> Squirrel Tail Fescue
		* <i>Isolepis levynsiana</i> Tiny Flat Sedge
* <i>Romula rosea</i> Onion Grass	* <i>Romula rosea</i> Onion Grass	* <i>Romula rosea</i> Onion Grass
	* <i>Hypochoeris radicata</i> Flat Weed	* <i>Hypochoeris radicata</i> Flat Weed
		* <i>Trifolium sp</i> Clover

MAB 114 In 5 m² Plot

2014	2015	2016
	<i>Austrostipa sp</i> Spear Grass	
<i>Dichelachne crinita</i> Plume Grass	<i>Dichelachne crinita</i> Plume Grass	<i>Dichelachne crinita</i> Plume Grass
<i>Elymus scaber</i> Australian Wheat Grass	<i>Elymus scaber</i> Australian Wheat Grass	
	<i>Lachnagrostis aemula</i> Leafy Blown Grass	
	<i>Poa labillardierei</i> Silver Tussock	
	<i>Poa morrisii</i> Velvet Tussock	
<i>Rytidosperma spp.</i> Wallaby Grass x3	<i>Rytidosperma spp.</i> Wallaby Grass x3	<i>Rytidosperma spp.</i> Wallaby Grass x2
<i>Themeda triandra</i> Kangaroo Grass	<i>Themeda triandra</i> Kangaroo Grass	<i>Themeda triandra</i> Kangaroo Grass
		<i>Juncus bufonius</i> Toad Rush
		<i>Acaena echinata</i> Sheep's Burr
<i>Convolvulus erubescens</i> Blushing Bind Weed	<i>Convolvulus erubescens</i> Blushing Bind Weed	<i>Convolvulus erubescens</i> Blushing Bind Weed
	<i>Eryngium ovium</i> Blue Devil	<i>Eryngium ovium</i> Blue Devil
* <i>Aira elegantissima</i> Delicate Hair Grass		* <i>Aira elegantissima</i> Delicate Hair Grass

* <i>Agrostis capillaries</i> Brown Top Bent		
		* <i>Briza minor</i> Lesser Quaking Grass
* <i>Holcus lanatus</i> Fog Grass	* <i>Holcus lanatus</i> Fog Grass	
* <i>Lagurus ovatus</i> Hare's Tail grass		
* <i>Vulpia bromoides</i> Squirrel Tail Fescue	* <i>Vulpia bromoides</i> Squirrel Tail Fescue	* <i>Vulpia bromoides</i> Squirrel Tail Fescue
		* <i>Isolepis levynsiana</i> Tiny Flat Sedge
* <i>Romula rosea</i> Onion Grass	* <i>Romula rosea</i> Onion Grass	* <i>Romula rosea</i> Onion Grass
	* <i>Cirsium vulgare</i> Spear Thistle	
	* <i>Hypochoeris radicata</i> Flat Weed	* <i>Hypochoeris radicata</i> Flat Weed
		* <i>Trifolium sp</i> Clover

Photopoint photos.

	
C482/2A PPM 114 – 2014 Landscape View	C482/2A PPM 114 – 2016 Landscape View
	
C482/2A PPM 114 – 2014 Close up View	C482/2A PPM 114 – 2016 Close up View

MAB PPM 115

S 38°15.482'

E 143°46.282

Date & time	07.12.13 12.30	18.10.14 10.50	16.11.15 11.04	18.11.2016 16.09
Total Vegetation Cover	70%	80%	45%	95%
Average Height Vegetation	25.6cm	10.2cm	3.6cm	17.6cm
Total Native Vegetation Cover	50%	45%	40%	60%
Graminoids	20%	5%	5%	10%
Herbs	30%	40%	35%	50%
Total Weeds	20%	35%	5%	35%
Total Grasses	18%	25%	5%	20%
Grasses – perennial	15%	20%	0%	10%
Grasses – annual	3%	5%	5%	10%
Dicots	2%	10%	0%	15%
Inter-tussock space	30%	60%	85%	55%
Bare Ground	0%	20%	50%	5%
Litter	30%	0%	5%	5%
Moss – present or absent	Present	Absent	Absent	Present
Biomass Monitoring Golf Ball Method			14 Medium - Low Biomass	8 Medium High Biomass
Temperature / Wind	18°C NW 8 kph	16°C NNW 9kph	9am 15 4°C E 19kph	15.5°C SW 15kph

Species Recorded MAB 115 - 1 m² Plot

2013	2014	2015	2016
<i>Poa labillardierei</i> Common Tussock	<i>Poa labillardierei</i> Common Tussock	<i>Poa labillardierei</i> Silver Tussock	<i>Poa labillardierei</i> Silver Tussock
<i>Rytidosperma sp</i> Wallaby Grass	<i>Rytidosperma sp</i> Wallaby Grass		
<i>Acaena echinata</i> Sheep's Burr	<i>Acaena echinata</i> Sheep's Burr	<i>Acaena echinata</i> Sheep's Burr	<i>Acaena echinata</i> Sheep's Burr
<i>Eryngium ovinum</i> Blue Devil	<i>Eryngium ovinum</i> Blue Devil		
	<i>Oxalis perennans</i> Wood Sorrel	<i>Oxalis perennans</i> Wood Sorrel	<i>Oxalis perennans</i> Wood Sorrel
			* <i>Aira elegantissima</i> Delicate Hair Grass
* <i>Avena barbata</i> Wild oats	* <i>Avena barbata</i> Wild oats	* <i>Avena barbata</i> Wild oats	* <i>Avena barbata</i> Wild oats
			* <i>Briza minor</i> Lesser Quaking Grass
		* <i>Bromus hordeaceus</i> Soft Brome	* <i>Bromus hordeaceus</i> Soft Brome
* <i>Holcus lanatus</i> Fog Grass			* <i>Holcus lanatus</i> Fog Grass
			* <i>Lolium multiflorum</i> Rye Grass
* <i>Phalaris aquatica</i> Toowoomba Canary Grass	* <i>Phalaris aquatica</i> Toowoomba Canary Grass		* <i>Phalaris aquatica</i> Toowoomba Canary Grass
	* <i>Romula rosea</i> Onion Grass		* <i>Romula rosea</i> Onion Grass
	* <i>Cirsium vulgare</i> Spear Thistle		
* <i>Hypochoeris radicata</i> Flat Weed	* <i>Hypochoeris radicata</i> Flat Weed		* <i>Hypochoeris radicata</i> Flat Weed
		* <i>Trifolium angustifolium</i> Narrow Leaf Clover	* <i>Trifolium angustifolium</i> Narrow Leaf Clover
	* <i>Trifolium sp.</i> Clover sp.		* <i>Trifolium sp</i> Clover

MAB 115 In 5 m² Plot

2013	2014	2015	2016
			<i>*Elymus scaber</i> Australian Wheat Grass
<i>Poa labillardierei</i> Silver Tussock	<i>Poa labillardierei</i> Silver Tussock	<i>Poa labillardierei</i> Silver Tussock	<i>Poa labillardierei</i> Silver Tussock
		<i>Rytidosperma sp</i> Wallaby Grass	<i>Rytidosperma sp</i> Wallaby Grass
<i>Acaena echinata</i> Sheep's Burr	<i>Acaena echinata</i> Sheep's Burr	<i>Acaena echinata</i> Sheep's Burr	<i>Acaena echinata</i> Sheep's Burr
<i>Eryngium ovinum</i> Blue Devil	<i>Eryngium ovinum</i> Blue Devil		<i>Eryngium ovinum</i> Blue Devil
	<i>Oxalis perennans</i> Wood Sorrel	<i>Oxalis perennans</i> Wood Sorrel	<i>Oxalis perennans</i> Wood Sorrel
	<i>Veronica gracilis</i> Slender Speedwell		
			<i>*Aira elegantissima</i> Delicate Hair Grass
<i>*Avena barbata</i> Wild oats	<i>*Avena barbata</i> Wild oats	<i>*Avena barbata</i> Wild oats	<i>*Avena barbata</i> Wild oats
			<i>*Briza minor</i> Lesser Quaking Grass
		<i>*Bromus hordeaceus</i> Soft Brome	<i>*Bromus hordeaceus</i> Soft Brome
<i>*Holcus lanatus</i> Fog Grass			<i>*Holcus lanatus</i> Fog Grass
<i>*Lolium multiflorum</i> Rye Grass	<i>*Lolium multiflorum</i> Rye Grass	<i>*Lolium multiflorum</i> Rye Grass	<i>*Lolium multiflorum</i> Rye Grass
<i>*Phalaris aquatica</i> Toowoomba Canary Grass	<i>*Phalaris aquatica</i> Toowoomba Canary Grass		<i>*Phalaris aquatica</i> Toowoomba Canary Grass
	<i>*Romula rosea</i> Onion Grass		<i>*Romula rosea</i> Onion Grass
	<i>*Cirsium vulgare</i> Spear Thistle		<i>*Cirsium vulgare</i> Spear Thistle
<i>*Hypochoeris radicata</i> Flat Weed	<i>*Hypochoeris radicata</i> Flat Weed	<i>*Hypochoeris radicata</i> Flat Weed	<i>*Hypochoeris radicata</i> Flat Weed
			<i>*Sonchus oleraceus</i> Sow Thistle
		<i>*Trifolium angustifolium</i> Narrow Leaf Clover	<i>*Trifolium angustifolium</i> Narrow Leaf Clover
	<i>*Trifolium sp.</i> Clover		<i>*Trifolium sp.</i> Clover

Photopoint photos.

 A wide-angle photograph of a grassy field. A white rectangular frame is placed on the ground in the foreground. The grass is a mix of green and yellow, indicating some dryness. In the background, there's a flat horizon under a clear sky.	 A wide-angle photograph of the same grassy field as in 2013. The white rectangular frame is still present. The vegetation appears slightly more lush and green compared to 2013, with more yellow flowers visible.
C482/2A PPM 115 – 2013 Landscape View	C482/2A PPM 115 – 2016 Landscape View
 A close-up photograph of the grass within the white rectangular frame. The grass is tall and thin, with some dry, brownish patches. A shadow is cast across the frame from the right.	 A close-up photograph of the grass within the white rectangular frame. The grass is greener and more dense than in 2013, with several bright yellow flowers in bloom.
C482/2A PPM 115 – 2013 Close up View	C482/2A PPM 115 – 2016 Close up View

Photos taken in offset site.

