

Appendix 11. Raw Quadrat Data

Rio Tinto Copper - Winu Project**Described by** Phase 1: PL/RM Phase 2: SCRM Phase 3: JP JW**Type** Quadrat 50x50m**Location** MIA**Central Coordinate** 357475 mE, 7711613 mN.**Habitat** Aeolian dune E-W (D2)**Soil** Red sand**Rock Type** N/A**Vegetation** **Phase 1:** Erythrophleum chlorostachys, (Grevillea stenobotrya) scattered low trees over A. sabulosa scattered shrubs over mixed low open shrubs over Triodia schinzii scattered hummock grasses over Aristida holathera var. holathera scattered tussock grasses.**Phase 2:** Erythrophleum chlorostachys, (Grevillea stenobotrya) scattered low trees over A. sabulosa scattered shrubs over mixed low open shrubs over Triodia schinzii scattered hummock grasses over Aristida holathera var. holathera scattered tussock grasses.**Phase 3:** Erythrophleum chlorostachys, (Grevillea stenobotrya) scattered low trees over A. sabulosa scattered shrubs over mixed low open shrubs over Triodia schinzii scattered hummock grasses over Aristida holathera var. holathera scattered tussock grasses.**Veg Condition** **Phase 1:** Excellent **Phase 2:** Excellent **Phase 3:** Excellent**Fire Age** **Phase 1:** Burnt <1 year ago **Phase 2:** Burnt <1 year ago **Phase 3:** 3 years**Notes****SPECIES LIST:**

Species	Phase 1			Phase 2			Phase 3			Comments
	Cover (%)	Height (cm)	Specimen	Cover (%)	Height (cm)	Specimen	Cover (%)	Height (cm)	Specimen	
Acacia anaticeps	0.1	70		0.1	70		0.1	70		
Acacia platycarpa 'Desert Form Non-Pruinose'	2	70	WIN01-20	1	70		1	70	01-01	
Acacia platycarpa 'Desert Form Pruinose'	1	70	WIN01-13	2	70		2	70	01-02	
Acacia sabulosa	1.5	180	WIN01-19	1.5	180		1.5	200		
Aristida holathera var. holathera	1	50	WIN01-06	1	50		1	50		
Aristida sp.	0.1	30	WIN01-24							
Calytrix carinata	0.1	50	WIN01-18	0.1	50		0.1	50		
Cassytha capillaris				0.1	10		0.1	10		
Codonocarpus cotinifolius	0.1	90		0.1	90		0.1	90		
Corynotheca gracilis							out	40	01-06	
Cyanostegia cyanocalyx	0.1	60		0.1	60		0.1	60		
Dampiera cinerea	0.5	50	WIN01-11	0.5	50		0.5	50	01-03	
Dicrastylis doranii	0.5	40	WIN01-01	0.5	40		0.5	40		
Eragrostis eriopoda	0.1	40	WIN01-03	0.1	40		0.1	40		
Eriachne aristidea	0.1	40	WIN01-07	0.1	40		0.1	40		
Eriachne helmsii	0.1	40	WIN01-22	0.1	40		0.1	60		
Erythrophleum chlorostachys	1	250		1	250		1	250		
Euphorbia myrtilloides	0.1	5	WIN01-10	0.1	5		0.1	5		
Euploca diversifolia	0.1	20	WIN01-21							
Gompholobium simplicifolium	1	70		1	70		1	70		
Grevillea eriostachya	0.1	50		0.1	50		0.1	100		
Grevillea stenobotrya	0.5	300		0.5	300		0.5	300		
Grevillea wickhamii subsp. hispidula	0.1	300	WIN01-14	0.1	300		0.1	300		
Gyrostemon tepperi	0.1	50		0.1	50		0.1	50		

Species	Phase 1			Phase 2			Phase 3			Comments
	Cover (%)	Height (cm)	Specimen	Cover (%)	Height (cm)	Specimen	Cover (%)	Height (cm)	Specimen	
<i>Indigofera ammobia</i>	0.1	50	WIN01-17	0.1	50		0.1	50		
<i>Jacksonia aculeata</i>	0.1	50		0.1	50		0.1	50		
<i>Newcastelia spodiotricha</i>	0.5	70	WIN01-02	0.5	70		0.5	70		
<i>Panicum australiense</i> var. <i>australiense</i>	0.1	10	WIN01-04	0.1	10		0.1	10		
<i>Paractaenum refractum</i>	0.1	40	WIN01-09	0.1	40	WIN01R-01	0.1	40		
<i>Petalostylis cassioides</i>	1	50		1	50		1	50		
<i>Polygala isingii</i>							0.1	20	01-05	
<i>Scaevola parvifolia</i> subsp. <i>parvifolia</i>	0.1	20	WIN01-05	0.1	20		0.1	20		
<i>Sida</i> sp. Western sand dunes (P.K. Latz 11980)	0.1	50	WIN01-23	0.1	50		0.1	50		
<i>Spermacoce occidentalis</i>	0.1	20	WIN01-16	0.1	20		0.1	20		
<i>Swainsona microphylla</i>							0.1	50	01-04	
<i>Synostemon arenosus</i>	0.1	30		0.1	30		0.1	30		
<i>Triodia schinzii</i>	1	40		1	40		1	40		



Phase 1



Phase 2

Rio Tinto Copper - Winu Project

Described by Phase 1: PL/RM Phase 2: SCRM Phase 3: JP JW
Type Quadrat 50x50m
Location MIA
Central Coordinate 357465 mE, 7711292 mN.
Habitat Valley between dunes, somewhat like a swale (P1)
Soil Sand
Rock Type N/A
Vegetation

Site WIN002**Date** Phase 1: 12-May-19 Phase 2: 23-Sep-19 Phase 3: 15-June-22

Phase 1: Erythrophleum chlorostachys low open woodland over Jacksonia aculeata, Seringia exastia, Acacia platycarpa low open shrubland over Bonamia erecta very open herbland over Triodia schinzii open hummock grassland.

Phase 2: Erythrophleum chlorostachys low open woodland over Jacksonia aculeata, Seringia exastia, Acacia platycarpa low open shrubland over Bonamia erecta very open herbland over Triodia schinzii hummock grassland.

Phase 3: Erythrophleum chlorostachys low open woodland over Jacksonia aculeata, Seringia exastia, Acacia platycarpa low open shrubland over Bonamia erecta very open herbland over Triodia schinzii hummock grassland.

Veg Condition**Phase 1:** Excellent **Phase 2:** Excellent **Phase 3:** Excellent**Fire Age****Phase 1:** No recent sign of fire **Phase 2:** No recent sign of fire **Phase 3:** No recent sign of fire**Notes****SPECIES LIST:**

Species	Phase 1			Phase 2			Phase 3			Comments
	Cover (%)	Height (cm)	Specimen	Cover (%)	Height (cm)	Specimen	Cover (%)	Height (cm)	Specimen	
Abildgaardia oxystachya	0.1	5	WIN02-09							
Acacia ancistrocarpa	0.1	200		0.1	200		0.1	270		
Acacia colei	0.1	220		0.1	220		0.1	300		
Acacia platycarpa 'Desert Form Non-Pruinose'	0.1	90		0.1	90		0.1	90		
Acacia platycarpa 'Desert Form Pruinose'	2	70		2	70		2	70		
Acacia sericophylla	0.1	170		0.1	170		0.1	170		
Amphipogon sericeus	0.5	40		0.5	40		0.5	40		
Aristida holathera var. holathera	0.1	40		0.1	40		0.1	40		
Bonamia erecta	2	25	WIN02-01	2	25		2	25		
Calytrix carinata	0.1	80		0.1	80		0.1	80		
Cassytha capillaris							0.1	20		
Corchorus sidoides subsp. vermicularis	0.1	40	WIN02-06	0.1	40		0.1	40		
Dampiera candidans							0.1	40	02-01	
Dicrastylis cordifolia	0.5	40		0.5	40		0.5	40		
Dodonaea coriacea	0.1	50	WIN02-11	0.1	50		0.1	80		
Dodonaea hispidula var. arida							out	150	02-02	
Eriachne lanata	0.1	40		0.1	40		0.1	40	02-04	
Eriachne obtusa				0.1	20					Most likely there but looked over in early quadrats
Erythrophleum chlorostachys	3	250		3	250		3	250		
Gompholobium simplicifolium	0.1	50		0.1	50		0.1	50		
Goodenia armitiana	0.1	25	WIN02-05	0.1	25					
Grevillea eriostachya	0.1	100		0.1	100		0.1	100		
Grevillea wickhamii subsp. hispidula	0.1	120	WIN02-07	0.1	120		0.1	200		

Species	Phase 1			Phase 2			Phase 3			Comments
	Cover (%)	Height (cm)	Specimen	Cover (%)	Height (cm)	Specimen	Cover (%)	Height (cm)	Specimen	
<i>Halgania solanacea</i> var. <i>solanacea</i>	0.1	40		0.1	40		0.1	40		
<i>Hibiscus leptocladus</i>	0.1	90		0.1	90					
<i>Jacksonia aculeata</i>	4	70	WIN02-02	4	70		4	70		
<i>Newcastelia cladotricha</i>	0.1	40	WIN02-10	0.1	40		0.1	40		
<i>Owenia reticulata</i>	0.1	180		0.1	180		0.1	180		
<i>Panicum australiense</i> var. <i>australiense</i>							0.1	15	02-03	
<i>Polygala isingii</i>							0.1	20		
<i>Ptilotus arthrolasius</i>	0.1	70		0.1	70		0.1	70		
<i>Ptilotus astrolasius</i>	0.1	40	WIN02-04	0.1	40		0.1	40		
<i>Ptilotus calostachyus</i>	0.1	70	WIN02-12							
<i>Scaevola parvifolia</i> subsp. <i>parvifolia</i>	0.5	30		0.5	30		0.5	30		
<i>Seringia exastia</i>	3	40		3	40		3	40		
<i>Sida</i> sp. Pindan (B.G. Thomson 3398)	0.1	30		0.1	30		0.1	30		
<i>Sorghum plumosum</i> var. <i>plumosum</i>							0.1	100	02-05	
<i>Tephrosia arenicola</i>	0.1	50	WIN02-08	0.1	50		0.1	100		
<i>Trichodesma zeylanicum</i> var. <i>zeylanicum</i>	0.1	80								
<i>Triodia schinzii</i>	18	35	WIN02-03	18	35		18	120		



Phase 1



Phase 2

Rio Tinto Copper - Winu Project**Described by** Phase 1: PL/RM Phase 2: SCRM Phase 3: JP JW**Type** Quadrat 50x50m**Location** MIA**Central Coordinate** 360853 mE, 7710303 mN.**Habitat** Sand dune east-west (D1)**Soil** Sand**Rock Type** N/A**Vegetation** **Phase 1:** *Corymbia chippendalei*, (*Erythrophleum chlorostachys*) low open woodland over *Acacia sabulosa* scattered shrubs over *A. platycarpa* low open shrubland over *Triodia schinzii* open hummock grassland.**Phase 2:** *Corymbia chippendalei*, (*Erythrophleum chlorostachys*) low open woodland over *Acacia sabulosa* scattered shrubs over *A. platycarpa* low open shrubland over *Triodia schinzii* open hummock grassland.**Phase 3:** *Corymbia chippendalei*, (*Erythrophleum chlorostachys*) low open woodland over *Acacia sabulosa* scattered shrubs over *A. platycarpa* low open shrubland over *Triodia schinzii* open hummock grassland.**Veg Condition** **Phase 1:** Excellent **Phase 2:** Excellent **Phase 3:** Excellent**Fire Age** **Phase 1:** No recent sign of fire **Phase 2:** No recent sign of fire **Phase 3:** No recent sign of fire**Notes****SPECIES LIST:**

Species	Phase 1			Phase 2			Phase 3			Comments
	Cover (%)	Height (cm)	Specimen	Cover (%)	Height (cm)	Specimen	Cover (%)	Height (cm)	Specimen	
<i>Acacia anaticeps</i>	0.1	50		0.1	50		0.1	50		
<i>Acacia platycarpa</i> 'Desert Form Pruinose'	3	80		3	80		3	80		
<i>Acacia sabulosa</i>	1.5	200		1.5	200		1.5	200		
<i>Acacia tumida</i> var. <i>kulparn</i>	0.1	110		0.1	110		0.1	110		
<i>Aristida holathera</i> var. <i>holathera</i>	0.1	70		0.1	70		0.1	70		
<i>Cassytha capillaris</i>	0.1	30		0.1	30		0.1	30		
<i>Corymbia chippendalei</i>	3	600	WIN03-05	3	600		3	600		
<i>Corynothea asperata</i>	0.1	40	WIN03-07	0.1	40		0.1	40		
<i>Crotalaria cunninghamii</i> subsp. <i>cunninghamii</i>	0.1	60		0.1	60		0.1	60	03-03	
<i>Cyanostegia cyanocalyx</i>	0.1	90		0.1	90		0.1	90		
<i>Dampiera cinerea</i>	1	35		1	35		1	35		
<i>Dicrastylis doranii</i>	2	30		2	30		0.1	30		Reduced the cover (possibly confused with <i>Thinicola incana</i>)
<i>Duboisia hopwoodii</i>	0.1	120	WIN03-09	0.1	120		0.1	120		
<i>Eragrostis eriopoda</i>	0.1	30		0.1	30		0.1	30		
<i>Eriachne aristidea</i>	0.1	50		0.1	50		0.1	50		
<i>Eriachne obtusa</i>	0.1	30	WIN03-03	0.1	30		0.1	30		
<i>Erythrophleum chlorostachys</i>	1	320		1	320		1	320		
<i>Euphorbia myrtilloides</i>							0.1	10		
<i>Gompholobium simplicifolium</i>	0.1	50		0.1	50		0.1	50		
<i>Grevillea stenobotrya</i>	0.1	210		0.1	210		0.1	210		
<i>Grevillea wickhamii</i> subsp. <i>hispidula</i>				0.1	90		0.1	140		
<i>Indigofera ammobia</i>	0.1	20	WIN03-01	0.1	20		0.1	20		
<i>Newcastelia spodioptricha</i>				0.1	60	WIN03R-01				

Species	Phase 1			Phase 2			Phase 3			Comments
	Cover (%)	Height (cm)	Specimen	Cover (%)	Height (cm)	Specimen	Cover (%)	Height (cm)	Specimen	
Panicum australiense var. australiense							0.1	10		
Paranotis pterospora	0.1	20	WIN03-08							
Petalostylis cassioides	0.1	70		0.1	70		0.1	70		
Ptilotus arthrolasius	0.1	40		0.1	40		0.1	40		
Scaevola parvifolia subsp. parvifolia	0.1	30		0.1	30		0.1	30		
Seringia exastia	0.1	40	WIN03-04	0.1	40		0.1	40		
Setaria surgens							0.1	30	03-02	
Sida sp. Western sand dunes (P.K. Latz 11980)	0.1	100		0.1	100		0.1	100		
Spermacoce occidentalis	0.1	15	WIN03-02	0.1	15		0.1	15		
Synostemon arenosus	0.1	20		0.1	20		0.1	20		
Thinicola incana							3	100	03-01	
Trianthema pilosum							0.1	10		
Triodia schinzii	15	30		15	30		15	30		



Phase 2 - NW



Phase 2 - SE

Rio Tinto Copper - Winu Project**Described by** Phase 1: PL/RM Phase 2: SCRM Phase 3: JP JW**Type** Quadrat 50x50m**Location** MIA**Central Coordinate** 361059 mE, 7709836 mN.**Habitat** Swale, plain (P3)**Soil** Sand**Rock Type** N/A**Vegetation** **Phase 1:** Acacia drepanocarpa subsp. latifolia, (Erythrophleum chlorostachys) shrubland over Jacksonia aculeata low open shrubland over Bonamia erecta, (Halgania solanacea var. solanacea) very open herbland over Triodia schinzii open hummock grassland.**Phase 2:** Acacia drepanocarpa subsp. latifolia, (Erythrophleum chlorostachys) shrubland over Jacksonia aculeata low open shrubland over Bonamia erecta, (Halgania solanacea var. solanacea) very open herbland over Triodia schinzii open hummock grassland.**Phase 3:** Acacia drepanocarpa subsp. latifolia, (Erythrophleum chlorostachys) shrubland over Jacksonia aculeata low open shrubland over Bonamia erecta, (Halgania solanacea var. solanacea) very open herbland over Triodia schinzii open hummock grassland**Veg Condition** **Phase 1:** Excellent **Phase 2:** Excellent **Phase 3:** Excellent**Fire Age** **Phase 1:** Burnt 3 to 5 years ago **Phase 2:** Burnt 3 to 5 years ago **Phase 3:** Burnt 5-8 years ago**Notes****SPECIES LIST:**

Species	Phase 1			Phase 2			Phase 3			Comments
	Cover (%)	Height (cm)	Specimen	Cover (%)	Height (cm)	Specimen	Cover (%)	Height (cm)	Specimen	
Acacia drepanocarpa subsp. latifolia	40	165	WIN04-01	40	165		40	165		
Acacia sericophylla	0.1	100		0.1	100		0.1	100		
Amphipogon sericeus	0.1	40		0.1	40		0.1	40		
Amphipogon sericeus							0.1	10	04-03	
Aristida holathera var. holathera				0.1	30		0.1	30		
Bonamia alatisemina	0.1	30		0.1	30		0.1	30		
Bonamia erecta	3	35		3	35		3	35		
Calytrix carinata	0.1	60		0.1	60		0.1	60		
Cassytha capillaris				0.1	30					
Corchorus sidoides subsp. vermicularis				0.1	20		0.1	20		
Corynothea asperata	0.1	40								
Dicrasyllis cordifolia	0.1	20		0.1	20		0.1	20		
Eriachne lanata	0.1	40		0.1	40		0.1	40		
Eriachne obtusa	0.1	50		0.1	50					
Erythrophleum chlorostachys	0.5	120		0.5	120					
Goodenia armitiana	0.1	30		0.1	30		0.1	30		
Goodenia hartiana				0.1	20		0.1	20		
Grevillea eriostachya	0.1	100					0.1	100		
Grevillea stenobotrya	0.1	90								
Grevillea wickhamii subsp. hispidula	0.1	200	WIN04-05	0.1	200		0.1	200		
Hakea macrocarpa				0.1	70		0.1	70		
Halgania solanacea var. solanacea	1	30		1	30		1	30		
Hibiscus leptocladus	0.1	60		0.1	60					
Indigofera boviparda subsp. eremaea	0.5	35		0.5	35		0.5	35		

Species	Phase 1			Phase 2			Phase 3			Comments
	Cover (%)	Height (cm)	Specimen	Cover (%)	Height (cm)	Specimen	Cover (%)	Height (cm)	Specimen	
<i>Jacksonia aculeata</i>	4	70		4	70		4	70		
<i>Leptosema anomalum</i>	0.1	30	WIN04-04	0.1	30		0.1	30	04-01	
<i>Panicum australiense</i> var. <i>australiense</i>							0.1	10	04-02	
<i>Paraneurachne muelleri</i>	0.1	50	WIN04-02	0.1	50		0.1	50		
<i>Ptilotus arthrolasius</i>				0.1	30					
<i>Ptilotus astrolasius</i>	0.5	30		0.1	40		0.1	40		
<i>Ptilotus calostachyus</i>							0.1	80		
<i>Trigastrotheca molluginea</i>	0.1	20		0.1	20		0.1	20		
<i>Triodia schinzii</i>	20	30		20	30		20	30		



Phase 2 - NW



Phase 2 - SE

Rio Tinto Copper - Winu Project**Described by** Phase 1: PL/RM Phase 2: SCRM Phase 3: JP JW**Type** Quadrat 50x50m**Location** MIA**Central Coordinate** 355628 mE, 7710883 mN.**Habitat** Swale, valley (C4)**Soil** Sand to loamy sand**Rock Type** N/A**Vegetation** **Phase 1:** Acacia ancistrocarpa low open shrubland over Eulalia aurea, (Eriachne lanata) very open tussock grassland over Triodia epactia open hummock grassland.**Phase 2:** Acacia ancistrocarpa low open shrubland over Eulalia aurea scattered tussock grasses over Triodia epactia hummock grassland.**Phase 3:** Acacia ancistrocarpa low open shrubland over Eulalia aurea scattered tussock grasses over Triodia epactia hummock grassland.**Veg Condition** **Phase 1:** Excellent **Phase 2:** Excellent **Phase 3:** Excellent**Fire Age** **Phase 1:** No recent sign of fire **Phase 2:** No recent sign of fire **Phase 3:** No recent sign of fire**SPECIES LIST:**

Species	Phase 1			Phase 2			Phase 3			Comments
	Cover (%)	Height (cm)	Specimen	Cover (%)	Height (cm)	Specimen	Cover (%)	Height (cm)	Specimen	
Abildgaardia oxystachya							0.1	10		
Acacia ?drepanocarpa							0.1	20	05-03	
Acacia adsurgens	0.1	70	WIN05-06	0.1	70		0.1	70	05-04	
Acacia ancistrocarpa	4	160		6	160		6	160		
Acacia maitlandii	0.1	80		0.1	80		0.1	80	05-02	
Amphipogon sericeus				0.1	30		0.1	30		
Aristida holathera var. holathera	0.1	30		0.1	30		0.1	30		
Calytrix carinata	0.1	80	WIN05-08	0.1	80		0.1	80		
Cassytha capillaris	0.1	25		0.1	25		0.1	25		
Dampiera candicans							0.1	10		
Dodonaea coriacea							0.1	20		
Eriachne lanata	0.5	40		0.1	40		0.1	40		
Eulalia aurea	2	50	WIN05-02	1	50		1	50		
Goodenia armitiana	0.1	30		0.1	30		0.1	30		
Goodenia panduriformis	0.1	15	WIN05-03							
Grevillea wickhamii subsp. hispidula	0.1	20		0.1	20		0.1	20		
Leptosema anomalum	0.1	20		0.1	20					
Mirbelia viminalis	0.1	70		0.1	70		0.1	70		
Polygala isingii							0.1	10		
Ptilotus calostachyus	0.1	60					0.1	20		
Sida arenicola							0.1	40		
Trigastrotheca molluginea	0.1	20		0.1	20		0.1	20		
Triodia epactia	18	50	WIN05-01	40	50		40	50	05-01	



Phase 1



Phase 2

Rio Tinto Copper - Winu Project**Described by** Phase 1: PL/RM Phase 2: SCRM Phase 3: JP JW**Type** Quadrat 50x50m**Location** MIA**Central Coordinate** 357959 mE, 7710443 mN.**Habitat** Swale, valley (P6)**Soil** Sand**Rock Type** N/A**Vegetation** **Phase 1:** Erythrophleum chlorostachys, Acacia drepanocarpa scattered low shrubs over Sorghum plumosum var. plumosum very open tussock grassland over Triodia schinzii, T. epactia very open hummock grassland.**Phase 2:** Erythrophleum chlorostachys, Acacia drepanocarpa scattered low shrubs over Sorghum plumosum var. plumosum very open tussock grassland over Triodia schinzii, T. epactia very open hummock grassland.**Phase 3:** Erythrophleum chlorostachys, Acacia drepanocarpa scattered low shrubs over Sorghum plumosum var. plumosum very open tussock grassland over Triodia schinzii, T. epactia very open hummock grassland.**Veg Condition** **Phase 1:** Excellent **Phase 2:** Excellent **Phase 3:** Excellent**Fire Age** **Phase 1:** Burnt 3-5 years ago/ No recent sign of fire **Phase 2:** Burnt 3-5 years ago/ No recent sign of fire **Phase 3:** No recent sign of fire**SPECIES LIST:**

Species	Phase 1			Phase 2			Phase 3			Comments
	Cover (%)	Height (cm)	Specimen	Cover (%)	Height (cm)	Specimen	Cover (%)	Height (cm)	Specimen	
Abildgaardia oxystachya	0.1	15	WIN06-02				0.1	10		
Acacia drepanocarpa subsp. latifolia	0.5	90		0.5	90		1	200		
Aristida holathera var. holathera	0.1	30		0.1	30		0.1	60		
Arivela viscosa	0.1	60		0.1	60		0.1	60		
Bonamia erecta	2.5	45		2.5	45		2.5	45		
Bulbostylis barbata							0.1	10		
Calytrix carinata	0.1	35	WIN06-04	0.1	35		0.1	35		
Dampiera candidans	0.1	30		0.1	30		0.1	30		
Dicrastylis cordifolia	0.1	30		0.1	30		0.1	30		
Eragrostis eriopoda	0.1	30	WIN06-03	0.1	30		0.1	30		
Eriachne aristidea							0.1	20		
Eriachne lanata	0.1	10		0.1	1		0.1	1		
Eriachne obtusa	0.1	40								
Erythrophleum chlorostachys	0.5	90		0.5	90		0.5	90		
Goodenia armitiana	0.5	30		0.5	30		0.5	30		
Hakea macrocarpa	0.1	160		0.1	160		0.1	20		
Hibiscus leptocladus	0.1	30		0.1	30		0.1	30		
Panicum australiense var. australiense	0.1	10		0.1	10		0.1	10		
Paraneurachne muelleri	0.1	30		0.1	30		0.1	30		
Polygala isingii	0.1	20	WIN06-01				0.1	10		
Ptilotus arthrolasius	0.1	25		0.1	25		0.1	25		
Ptilotus astrolasius	0.1	40		0.1	40		0.1	40		
Ptilotus calostachyus	0.1	40		0.1	40		0.1	40		
Senna curvistyla							0.1	10		
Senna notabilis				0.1	5					

Species	Phase 1			Phase 2			Phase 3			Comments
	Cover (%)	Height (cm)	Specimen	Cover (%)	Height (cm)	Specimen	Cover (%)	Height (cm)	Specimen	
Sida arenicola	0.1	5					0.1	120		
Solanum diversiflorum	0.1	25		0.1	25		0.1	25		
Sorghum plumosum var. plumosum	5	180		5	180		4.5	160		
Tephrosia arenicola	0.1	40		0.1	40		0.1	40		
Trianthema pilosum	0.1	8		0.1	8		0.1	8		
Trianthema triquetrum							0.1	10		
Triodia epactia	3	40		3	40		3	40		
Triodia schinzii	4	50		4	50		4.5	50		



Phase 1



Phase 2

Rio Tinto Copper - Winu Project

Described by Phase 1: PL/RM Phase 2: SCRM Phase 3: JP JW
Type Quadrat 50x50m
Location MIA
Central Coordinate 364887 mE, 7710126 mN.
Habitat Swale, valley (P1)
Soil Sand
Rock Type N/A
Vegetation

Site WIN007**Date** Phase 1: 13-May-19 Phase 2: 21-Sep-19 Phase 3: 17-Jun-22

Phase 1: Erythrophleum chlorostachys, Grevillea wickhamii subsp. hispidula low open woodland over Acacia platycarpa, (Androcalva loxophylla, Grevillea eriostachya) low open shrubland over Dicrastylis doranii, Gompholobium simplicifolium low open shrubland over Triodia schinzii open hummock grassland.

Phase 2: Erythrophleum chlorostachys, Grevillea wickhamii subsp. hispidula low open woodland over Acacia platycarpa, (Androcalva loxophylla, Grevillea eriostachya) low open shrubland over Dicrastylis doranii, Gompholobium simplicifolium low open shrubland over Triodia schinzii open hummock grassland.

Phase 3: Erythrophleum chlorostachys, Grevillea wickhamii subsp. hispidula low open woodland over Acacia platycarpa, (Androcalva loxophylla, Grevillea eriostachya) low open shrubland over Dicrastylis doranii, Gompholobium simplicifolium low open shrubland over Triodia schinzii open hummock grassland.

Veg Condition Phase 1: Excellent Phase 2: Excellent Phase 3: Excellent**Fire Age** Phase 1: No recent sign of fire Phase 2: No recent sign of fire Phase 3: No recent sign of fire**SPECIES LIST:**

Species	Phase 1			Phase 2			Phase 3			Comments
	Cover (%)	Height (cm)	Specimen	Cover (%)	Height (cm)	Specimen	Cover (%)	Height (cm)	Specimen	
Abildgaardia oxystachya							0.1	10		
Acacia platycarpa 'Desert Form Non-Pruinose'	1	90		1	90		1	90		
Acacia platycarpa 'Desert Form Pruinose'	5	90		5	90		5	90		
Acacia sericophylla	0.1	240		0.1	240		0.1	240		
Amphipogon sericeus	0.1	50		0.1	50		0.1	50		
Androcalva loxophylla	1	120		0.5	120		0.5	120		
Aristida holathera var. holathera	0.1	30		0.1	30		0.1	30		
Calytrix carinata	0.1	70	WIN07-03	0.1	70		0.1	70		
Cassytha capillaris	0.1	30	WIN07-06	0.1	30		0.1	30		
Dampiera candicans	0.1	80								
Dampiera cinerea	0.1	40		0.1	50		0.1	50		
Dicrastylis cordifolia	0.1	25		0.1	25		0.1	25		
Dicrastylis doranii	2	40		2	40		2	40		
Dodonaea coriacea	0.1	90		0.1	90		0.1	90		
Dodonaea hispidula var. arida	0.1	230	WIN07-07	0.1	230		0.1	230		
Eragrostis eriopoda	0.1	40	WIN07-02	0.1	40		0.1	40		
Eriachne aristidea				0.1	40					
Eriachne lanata	1	60	WIN07-04	1	60		1	60		
Erythrophleum chlorostachys	3	350		3	350		3	350		
Gompholobium simplicifolium	1	80		1	80		1	80		
Grevillea eriostachya	1	170		1	170		1	170		

Species	Phase 1			Phase 2			Phase 3			Comments
	Cover (%)	Height (cm)	Specimen	Cover (%)	Height (cm)	Specimen	Cover (%)	Height (cm)	Specimen	
<i>Grevillea wickhamii</i> subsp. <i>hispidula</i>	2	320	WIN07-01	1	320		1	320		
<i>Gyrostemon tepperi</i>				0.1	50					
<i>Hakea macrocarpa</i>	0.1	210		0.1	210		0.1	210		
<i>Halgania solanacea</i> var. <i>solanacea</i>	0.5	40		0.5	40		0.5	40		
<i>Indigofera boviparda</i> subsp. <i>eremaea</i>	0.1	40		0.1	40		0.1	40		
<i>Jacksonia aculeata</i>	0.1	40		0.1	40		0.1	40		
<i>Panicum australiense</i> var. <i>australiense</i>							0.1	10		
<i>Petalostylis cassioides</i>				0.1	70		0.1	70		
<i>Polygala isingii</i>							0.1	10		
<i>Ptilotus arthrolasius</i>	0.5	30		0.5	30		0.5	30		
<i>Scaevola parvifolia</i> subsp. <i>parvifolia</i>	0.1	25		0.1	25		0.1	25		
<i>Seringia exastia</i>	1	70		1	70		1	70		
<i>Setaria surgens</i>							0.1	30		
<i>Sorghum plumosum</i> var. <i>plumosum</i>	0.1	180		0.1	180		0.1	180		
<i>Trigastrotheca molluginea</i>	0.1	30		0.1	30		0.1	30		
<i>Triodia schinzii</i>	16	40		20	40		20	40		



Phase 1



Phase 2

Rio Tinto Copper - Winu Project**Described by** Phase 1: PL/RM Phase 2: SCRM Phase 3: JP JW**Type** Quadrat 50x50m**Location** MIA**Central Coordinate** 364474 mE, 7709546 mN.**Habitat** Swale, valley (P1)**Soil** Sand**Rock Type** N/A

Vegetation **Phase 1:** Owenia reticulata, Erythrophleum chlorostachys scattered low trees over Acacia platycarpa open shrubland over Jacksonia aculeata, (Gompholobium simplicifolium, Bonamia erecta, Androcalva loxophylla) low shrubland over Triodia schinzii open hummock grassland.

Phase 2: Owenia reticulata, Erythrophleum chlorostachys scattered low trees over Acacia platycarpa open shrubland over Jacksonia aculeata, (Gompholobium simplicifolium, Bonamia erecta, Androcalva loxophylla) low shrubland over Triodia schinzii open hummock grassland.

Phase 3: Owenia reticulata, Erythrophleum chlorostachys scattered low trees over Acacia platycarpa open shrubland over Jacksonia aculeata, (Gompholobium simplicifolium, Bonamia erecta, Androcalva loxophylla) low shrubland over Triodia schinzii open hummock grassland.

Veg Condition Phase 1: Excellent Phase 2: Excellent Phase 3: Excellent**Fire Age** Phase 1: Burnt 3-5 years ago/ No recent sign of fire Phase 2: Burnt 3-5 years ago/ No recent sign of fire Phase 3: No recent sign of fire**SPECIES LIST:**

Species	Phase 1			Phase 2			Phase 3			Comments
	Cover (%)	Height (cm)	Specimen	Cover (%)	Height (cm)	Specimen	Cover (%)	Height (cm)	Specimen	
Acacia platycarpa 'Desert Form Non-Pruinose'	6	120		6	120		6	120		
Acacia platycarpa 'Desert Form Pruinose'	0.1	120		0.1	120		0.1	120		
Acacia sericophylla	0.1	50		0.1	50		0.1	50		
Amphipogon sericeus				0.1	30					
Androcalva loxophylla	1	70		1	70		1	70		
Bonamia alatisemina							0.1	20		
Bonamia erecta	2	50		0.1	50		0.1	50		
Cassytha capillaris	0.1	30		0.1	30		0.1	30		
Corchorus sidoides subsp. vermicularis	0.1	40		0.1	40		0.1	40		
Dicrastylis cordifolia	0.1	40		0.1	40		0.1	40		
Dodonaea coriacea	0.1	40		0.1	40		0.1	40		
Dodonaea hispidula var. arida	0.1	120		0.1	120		0.1	120		
Eragrostis eriopoda	0.5	30								
Eriachne obtusa				0.1	45	WIN08R-01	0.1	45		
Erythrophleum chlorostachys	0.5	240		0.5	240		0.5	240		
Gompholobium simplicifolium	2.5	70		2.5	70		2.5	70		
Goodenia azurea subsp. hesperia	0.1	50								
Goodenia hartiana				0.1	50		0.1	50		
Grevillea wickhamii subsp. hispidula	0.1	100	WIN08-01	0.1	100		0.1	100		
Halgania solanacea var. solanacea	0.1	40		0.1	40		0.1	40		
Indigofera boviparda subsp. eremaea	0.5	45		0.1	45		0.1	45		
Jacksonia aculeata	11	70		11	70		11	70		
Leptosema anomalum	0.1	30		0.1	30		0.1	30		
Owenia reticulata	0.5	350		0.5	350		0.5	350		
Petalostylis cassioides	0.1	110		0.1	110		0.1	110		

Species	Phase 1			Phase 2			Phase 3			Comments
	Cover (%)	Height (cm)	Specimen	Cover (%)	Height (cm)	Specimen	Cover (%)	Height (cm)	Specimen	
Ptilotus astrolasius				0.1	40		0.1	40		
Trigastrotheca molluginea	0.1	15		0.1	15					
Triodia schinzii	25	40		25	40		25	40		



Phase 1



Phase 2

Rio Tinto Copper - Winu Project**Described by** Phase 1: PL/RM Phase 2: SCRM Phase 3: JP JW**Type** Quadrat 50x50m**Location** MIA**Central Coordinate** 364499 mE, 7708795 mN.**Habitat** Plain between dunes ?semi swale (P3)**Soil** Sand**Rock Type** N/A**Vegetation** **Phase 1:** Erythrophleum chlorostachys scattered low trees over Acacia drepanocarpa subsp. latifolia tall shrubland over Jacksonia aculeata, (A. platycarpa) low open shrubland over Triodia schinzii hummock grassland.**Phase 2:** Erythrophleum chlorostachys scattered low trees over Acacia drepanocarpa subsp. latifolia tall shrubland over Jacksonia aculeata, (A. platycarpa) low open shrubland over Triodia schinzii hummock grassland.**Phase 3:** Erythrophleum chlorostachys scattered low trees over Acacia drepanocarpa subsp. latifolia tall shrubland over Jacksonia aculeata, (A. platycarpa) low open shrubland over Triodia schinzii hummock grassland.**Veg Condition** **Phase 1:** Excellent **Phase 2:** Excellent **Phase 3:** Excellent**Fire Age** **Phase 1:** Burnt 3-5 years ago **Phase 2:** Burnt 3-5 years ago **Phase 3:** Burnt 5-8 years ago**SPECIES LIST:**

Species	Phase 1			Phase 2			Phase 3			Comments
	Cover (%)	Height (cm)	Specimen	Cover (%)	Height (cm)	Specimen	Cover (%)	Height (cm)	Specimen	
Acacia drepanocarpa subsp. latifolia	11	220		11	220		11	300		
Acacia platycarpa 'Desert Form Pruinose'	1	80		1	80		1	80		
Amphipogon sericeus	0.5	50		0.5	50		0.5	50		
Androcalva loxophylla	0.1	45		0.1	45		0.1	45		
Aristida holathera var. holathera	0.1	50								
Bonamia erecta	0.5	40		0.5	40		0.5	40		
Calytrix carinata	0.1	50	WIN09-02	0.1	50		0.1	50		
Cassutha capillaris							0.1	40		
Dicrastylis cordifolia	0.1	40		0.1	40		0.1	40		
Dodonaea coriacea							out	0		
Eriachne lanata	0.5	40	WIN09-01	0.5	40		0.5	40		
Erythrophleum chlorostachys	0.5	170		0.5	170		0.5	170		
Euploca transformis				0.1	45		0.1	45	09-01	
Goodenia hartiana				0.1	30		0.1	30		
Grevillea eriostachya							out	0		
Grevillea wickhamii subsp. hispidula	0.1	140		0.1	140		0.1	140		
Gyrostemon tepperi	0.1	140		0.1	140					
Hakea macrocarpa							out	0		
Halganina solanacea var. solanacea	1	40		1	40		1	40		
Indigofera boviparda subsp. eremaea	0.5	40		0.5	40		0.5	40		
Jacksonia aculeata	4	50		4	50		4	50		
Leptosema anomalum	0.1	30		0.1	30		0.1	30		
Petalostylis cassioides							out	0		
Ptilotus arthrolasius	0.5	40		0.5	40		0.5	40		
Ptilotus astrolasius	0.1	35		0.1	35					

Species	Phase 1			Phase 2			Phase 3			Comments
	Cover (%)	Height (cm)	Specimen	Cover (%)	Height (cm)	Specimen	Cover (%)	Height (cm)	Specimen	
Ptilotus calostachyus							0.1	60		
Triodia schinzii	32	40		32	40		32	40		



Phase 1



Phase 2

Rio Tinto Copper - Winu Project

Described by Phase 1: PL/RM Phase 2: SCRM Phase 3: JP JW
Type Quadrat 50x50m
Location MIA
Central Coordinate 366997 mE, 7707986 mN.
Habitat Dune (D1)
Soil Sand
Rock Type N/A
Vegetation

Site WIN010**Date** Phase 1: 14-May-19 Phase 2: 20-Sep-19 Phase 3: 17-Jun-22

Phase 1: *Corymbia chippendalei* low open woodland over *Acacia sabulosa*, (*A. tumida* var. *kulparn*, *Petalostylis cassioides*) tall open shrubland over *A. sabulosa*, *Dicrasyllis doranii* low open shrubland over *Triodia schinzii* very open hummock grassland.

Phase 2: *Corymbia chippendalei* low open woodland over *Acacia sabulosa*, (*A. tumida* var. *kulparn*, *Petalostylis cassioides*) tall open shrubland over *A. sabulosa*, *Dicrasyllis doranii* low open shrubland over *Triodia schinzii* very open hummock grassland.

Phase 3: *Corymbia chippendalei* low open woodland over *Acacia sabulosa*, (*A. tumida* var. *kulparn*, *Petalostylis cassioides*) tall open shrubland over *A. sabulosa*, *Dicrasyllis doranii* low open shrubland over *Triodia schinzii* very open hummock grassland.

Veg Condition**Phase 1:** Excellent **Phase 2:** Excellent **Phase 3:** Excellent**Fire Age****Phase 1:** Burnt 3-5 years ago **Phase 2:** Burnt 3-5 years ago **Phase 3:** Burnt 5-8 years ago**SPECIES LIST:**

Species	Phase 1			Phase 2			Phase 3			Comments
	Cover (%)	Height (cm)	Specimen	Cover (%)	Height (cm)	Specimen	Cover (%)	Height (cm)	Specimen	
<i>Acacia anaticeps</i>	1	60		1	60		1	60		
<i>Acacia sabulosa</i>	3	240		3	240		3	240		
<i>Acacia tumida</i> var. <i>kulparn</i>	1	250		1	250		1	250		
<i>Aristida holathera</i> var. <i>holathera</i>	1.5	50	WIN10-10	1.5	50		1.5	50		
<i>Aristida holathera</i> var. <i>holathera</i>							0.1	60		
<i>Cassytha capillaris</i>	0.1	50		0.1	50		0.1	50		
<i>Corymbia chippendalei</i>	3	550	WIN10-01	3	550		3	550		
<i>Corynotheca asperata</i>	0.1	40		0.1	40	WIN01R-01	0.1	40		
<i>Crotalaria cunninghamii</i> subsp. <i>cunninghamii</i>	0.1	120	WIN10-12	0.1	120		0.1	120		
<i>Cucumis variabilis</i>	0.1	40	WIN10-09	0.1	40		0.1	40		
<i>Cyanostegia cyanocalyx</i>							out	0		
<i>Dicrasyllis doranii</i>	4	50		4	50		4	50		
<i>Eragrostis eriopoda</i>	0.1	40	WIN10-02	0.1	40		0.1	40		
<i>Eriachne aristidea</i>	0.1	40		0.1	40		0.1	40		
<i>Eriachne helmsii</i>							0.1	40		
<i>Eriachne obtusa</i>	0.5	50		0.5	50		0.5	50		
<i>Erythrophleum chlorostachys</i>							0.1	400		
<i>Euphorbia myrtoides</i>	0.1	20	WIN10-11				0.1	10		
<i>Gompholobium simplicifolium</i>	0.1	70		0.1	70		0.1	70		
<i>Grevillea stenobotrya</i>	0.1	250		0.1	250		0.1	250		
<i>Grevillea wickhamii</i> subsp. <i>hispidula</i>	0.1	100		0.1	100		0.1	100		
<i>Gyrostemon tepperi</i>	0.1	90	WIN10-05b	0.1	90		0.1	90		
<i>Indigofera ammobia</i>	0.1	40		0.1	40		0.1	40		
<i>Indigofera boviperda</i> subsp. <i>eremaea</i>	0.1	40	WIN10-06	0.1	40		0.1	40		
<i>Panicum australiense</i> var. <i>australiense</i>							0.1	10		

Species	Phase 1			Phase 2			Phase 3			Comments
	Cover (%)	Height (cm)	Specimen	Cover (%)	Height (cm)	Specimen	Cover (%)	Height (cm)	Specimen	
<i>Paractaenium refractum</i>							0.1	30		
<i>Paranotis pterospora</i>	0.1	25	WIN10-07				0.1	15		
<i>Petalostylis cassioides</i>	0.5	220		0.5	220		0.5	220		
<i>Polycarpaea longiflora</i>	0.1	30	WIN10-04	0.1	30					
<i>Setaria surgens</i>	0.1	30	WIN10-08				0.1	30		
<i>Sida</i> sp. Western sand dunes (P.K. Latz 11980)	0.1	180		0.1	180		0.1	180		
<i>Spermacoce occidentalis</i>	0.1	30	WIN10-03	0.1	30		0.1	30		
<i>Swainsona microphylla</i>							0.1	200		
<i>Thinicola incana</i>	0.1	70		0.1	70		0.1	70		
<i>Trianthema pilosum</i>	0.1	20		0.1	20		0.1	20		
<i>Triodia schinzii</i>	4	40	WIN10-05a	4	40		4	40		



Phase 1



Phase 2

Rio Tinto Copper - Winu Project

Described by Phase 1: PL/RM Phase 2: SCRM Phase 3: JP JW
Type Quadrat 50x50m
Location MIA
Central Coordinate 362790 mE, 7709997 mN.
Habitat Pindan plain (P3)
Soil Sand
Rock Type N/A
Vegetation

Site WIN011**Date** Phase 1: 14-May-19 Phase 2: 21-Sep-19 Phase 3: 16-Jun-22

Phase 1: Erythrophleum chlorostachys scattered low trees over Acacia drepanocarpa subsp. latifolia shrubland over Jacksonia aculeata, Gompholobium simplicifolium low open shrubland over Triodia schinzii open hummock grassland.

Phase 2: Erythrophleum chlorostachys scattered low trees over Acacia drepanocarpa subsp. latifolia shrubland over Jacksonia aculeata, Gompholobium simplicifolium low open shrubland over Triodia schinzii open hummock grassland.

Phase 3: Erythrophleum chlorostachys scattered low trees over Acacia drepanocarpa subsp. latifolia shrubland over Jacksonia aculeata, Gompholobium simplicifolium low open shrubland over Triodia schinzii open hummock grassland.

Veg Condition**Phase 1:** Excellent **Phase 2:** Excellent **Phase 3:** Excellent**Fire Age****Phase 1:** Burnt 1-2 years ago **Phase 2:** Burnt 1-2 years ago **Phase 3:** Burnt 4-5 years ago**SPECIES LIST:**

Species	Phase 1			Phase 2			Phase 3			Comments
	Cover (%)	Height (cm)	Specimen	Cover (%)	Height (cm)	Specimen	Cover (%)	Height (cm)	Specimen	
Acacia drepanocarpa subsp. latifolia	13	170		13	170		13	200		
Acacia platycarpa 'Desert Form Non-Pruinose'				0.1	40		0.1	40		
Acacia platycarpa 'Desert Form Pruinose'	1	90		1	90		1	90		
Amphipogon sericeus	0.1	40		0.1	40					
Bonamia erecta	0.1	40		0.1	40		0.1	40		
Calytrix carinata	0.1	80		0.1	80		0.1	80		
Dampiera cinerea	0.1	40		0.1	40		0.1	40		
Dicrasyllis cordifolia							0.1	30		
Dicrasyllis doranii	3	40		3	40		3	40		
Dodonaea coriacea				0.1	40		2	40		
Dodonaea hispidula var. arida	0.1	140		0.1	140		0.1	140	11-01	
Eriachne helmsii	0.1	40	WIN11-03	0.1	40					
Eriachne lanata							0.1	40		
Erythrophleum chlorostachys	1	280		1	280		1	280		
Gompholobium simplicifolium	4	70		4	70		4	70		
Grevillea eriostachya	0.1	140		0.1	140		0.1	140		
Grevillea wickhamii subsp. hispidula	0.5	250	WIN11-01	0.5	250		0.5	250		
Halgania solanacea var. solanacea	0.1	40					0.1	50		
Indigofera boviparda subsp. eremaea				0.1	20		0.1	20		
Jacksonia aculeata	4	60		4	60		4	60		
Leptosema anomalum	0.1	30								
Newcastelia cladotricha	0.1	40		0.1	40	WIN11R-01				
Polygala isingii	0.1	10	WIN11-02							
Ptilotus arthrolasius	0.1	30		0.1	30					
Scaevola parvifolia subsp. parvifolia	0.1	20		0.1	20		0.1	20		

Species	Phase 1			Phase 2			Phase 3			Comments
	Cover (%)	Height (cm)	Specimen	Cover (%)	Height (cm)	Specimen	Cover (%)	Height (cm)	Specimen	
Tridonia schinzii	28	40		28	40		28	40		



Rio Tinto Copper - Winu Project**Described by** Phase 1: PL/RM Phase 2: SCRM Phase 3: JP JW**Type** Quadrat 50x50m**Location** MIA**Central Coordinate** 363526 mE, 7709535 mN.**Habitat** Pindan dune (D1)**Soil** Sand**Rock Type** N/A**Vegetation** **Phase 1:** *Corymbia chippendalei* low open woodland over *Acacia platycarpa*, (*A. tumida* var. *kulparn*) tall open shrubland over *Aristida holathera* very open tussock grassland over *Triodia schinzii* very open hummock grassland.**Phase 2:** *Corymbia chippendalei* low open woodland over *Acacia platycarpa*, (*A. tumida* var. *kulparn*) tall open shrubland over *Aristida holathera* very open tussock grassland over *Triodia schinzii* very open hummock grassland.**Phase 3:** *Corymbia chippendalei* low open woodland over *Acacia platycarpa*, (*A. tumida* var. *kulparn*) tall open shrubland over *Aristida holathera* very open tussock grassland over *Triodia schinzii* very open hummock grassland.**Veg Condition** **Phase 1:** Excellent **Phase 2:** Excellent **Phase 3:** Excellent**Fire Age** **Phase 1:** Burnt 3-5 years ago **Phase 2:** Burnt 3-5 years ago **Phase 3:** Burnt 6-8 years ago**SPECIES LIST:**

Species	Phase 1			Phase 2			Phase 3			Comments
	Cover (%)	Height (cm)	Specimen	Cover (%)	Height (cm)	Specimen	Cover (%)	Height (cm)	Specimen	
<i>Acacia anaticeps</i>	0.1	70		0.1	70		0.1	70		
<i>Acacia platycarpa</i> 'Desert Form Pruinose'	9	220		9	220		9	220		
<i>Acacia sabulosa</i>	0.5	220		0.5	220		0.5	220		
<i>Acacia tumida</i> var. <i>kulparn</i>	1	200		1	200		1	200		
<i>Aristida holathera</i> var. <i>holathera</i>	2	40		2	40		2	40		
<i>Aristida holathera</i> var. <i>holathera</i>	2	50		2	50		2	50		
<i>Cassytha capillaris</i>	0.1	50		0.1	50					
<i>Corymbia chippendalei</i>	7	700		3	700	WIN12R-01	3	700		
<i>Corynothea asperata</i>	0.1	40		0.1	40		0.1	40		
<i>Cucumis variabilis</i>	0.1	110		0.1	110		0.1	110		
<i>Cyanostegia cyanocalyx</i>	0.1	80		0.1	80		0.1	80		
<i>Dampiera cinerea</i>	0.5	50		0.1	50		0.1	50		
<i>Dicrastylis doranii</i>	1	50		0.5	50		0.5	50		
<i>Eragrostis eriopoda</i>	0.1	40	WIN12-02	0.1	40		0.1	40		Name corrected from <i>E. aff. eriopoda</i>
<i>Eriachne aristidea</i>	0.1	50		0.1	50		0.1	50		
<i>Erythrophleum chlorostachys</i>	0.1	50		0.1	50		0.1	50		
<i>Euphorbia myrtilloides</i>							0.1	10	12-01	
<i>Gompholobium simplicifolium</i>	0.5	50		0.5	50		0.5	50		
<i>Grevillea stenobotrya</i>	0.1	140		0.1	140		0.1	140		
<i>Gyrostemon tepperi</i>	0.1	120		0.1	120		0.1	120		
<i>Indigofera ammobia</i>	0.1	40		0.1	40		0.1	40		
<i>Panicum australiense</i> var. <i>australiense</i>							0.1	10		
<i>Petalostylis cassioides</i>	0.1	80		0.1	80		0.1	80		
<i>Ptilotus arthrolasius</i>	0.1	40		0.1	40		0.1	40		

Species	Phase 1			Phase 2			Phase 3			Comments
	Cover (%)	Height (cm)	Specimen	Cover (%)	Height (cm)	Specimen	Cover (%)	Height (cm)	Specimen	
<i>Setaria surgens</i>	0.1	30					0.1	20		
<i>Sida</i> sp. Western sand dunes (P.K. Latz 11980)	0.1	160		0.1	160		0.1	160		
<i>Spermacoce occidentalis</i>	0.1	30	WIN12-01	0.1	30		0.1	30		
<i>Swainsona microphylla</i>							0.1	60		
<i>Synostemon arenosus</i>	0.1	40		0.1	40		0.1	40		
<i>Triodia schinzii</i>	8	40		8	40		8	40		



Phase 1



Phase 2

Rio Tinto Copper - Winu Project**Described by** Phase 1: PL/RM Phase 2: SCRM**Type** Quadrat 50x50m**Location** MIA**Central Coordinate** 376968 mE, 7703118 mN.**Habitat** Pindan plain (P2)**Soil** Sand**Rock Type** N/A**Vegetation** **Phase 1:** Acacia ancistrocarpa, (Dodonaea hispidula var. arida) tall shrubland over Acacia platycarpa scattered shrubs over Amphipogon sericeus, Aristida holathera var. holathera scattered tussock grasses over Triodia schinzii open hummock grassland.**Phase 2:** Acacia ancistrocarpa, (Dodonaea hispidula var. arida) tall shrubland over Acacia platycarpa scattered shrubs over Amphipogon sericeus, Aristida holathera var. holathera scattered tussock grasses over Triodia schinzii open hummock grassland.**Veg Condition** **Phase 1:** Excellent **Phase 2:** Excellent**Fire Age** **Phase 1:** Burnt 3-5 years ago **Phase 2:** Burnt 3-5 years ago**SPECIES LIST:**

Species	Phase 1			Phase 2			Comments
	Cover (%)	Height (cm)	Specimen	Cover (%)	Height (cm)	Specimen	
Acacia ancistrocarpa	9	280		9	280		
Acacia platycarpa 'Desert Form Pruinose'	1	100		1	100		
Amphipogon sericeus	1	50		1	50		
Aristida holathera var. holathera	0.5	40		0.5	40		
Aristida holathera var. holathera	0.1	40		0.1	40		
Bonamia alatisemina				0.1	10	WIN13R-02	
Calytrix carinata	0.1	60		0.1	60		
Corymbia zygophylla	0.1	280	WIN13-02	0.1	280		
Dampiera cinerea	0.1	40		0.1	40	WIN13R-01	
Dicrastylis cordifolia	0.1	40		0.1	40		
Dodonaea coriacea	0.1	50		0.1	50		
Dodonaea hispidula var. arida	1	250		1	250		
Eragrostis eriopoda	0.1	40	WIN13-01				
Eriachne aristidea	0.1	40					
Eriachne lanata	0.1	50					
Eriachne obtusa				0.1	15		
Gompholobium simplicifolium	0.1	60		0.1	60		
Goodenia armitiana	0.1	40		0.1	40		
Grevillea eriostachya	0.1	140		0.1	140		
Grevillea wickhamii subsp. hispidula	0.5	190		0.5	190		
Gyrostemon tepperi	0.1	110		0.1	110		
Halgania solanacea var. solanacea	0.5	40		0.5	40		
Indigofera boviparda subsp. eremaea	1	40		1	40		
Jacksonia aculeata	0.1	40		0.1	40		
Ptilotus arthrolasius	0.1	40		0.1	40		
Ptilotus astrolasius	0.1	50					
Ptilotus calostachyus	0.1	50					
Scaevola parvifolia subsp. parvifolia	0.1	40		0.1	40		

Species	Phase 1			Phase 2			Comments
	Cover (%)	Height (cm)	Specimen	Cover (%)	Height (cm)	Specimen	
Seringia exastia	0.1	50		0.1	50		
Sida sp. Pindan (B.G. Thomson 3398)	0.1	50					
Triodia schinzii	11	40		11	40		



Phase 1



Phase 2

Rio Tinto Copper - Winu Project**Described by** Phase 1: PL/RM Phase 2: SCRM**Type** Quadrat 50x50m**Location** MIA**Central Coordinate** 377100 mE, 7703645 mN.**Habitat** Pindan dune (D2)**Soil** Sand**Rock Type** N/A**Vegetation** **Phase 1:** Grevillea wickhamii scattered tall shrubs over Grevillea stenobotrya, Petalostylis cassioides, Acacia anaticeps, (Thinicola incana) open shrubland over Dampiera cinerea, Dicrastylis doranii scattered low shrubs over Triodia schinzii very open hummock grassland.**Phase 2:** Grevillea wickhamii scattered tall shrubs over Grevillea stenobotrya, Petalostylis cassioides, Acacia anaticeps, (Thinicola incana) open shrubland over Dampiera cinerea, Dicrastylis doranii scattered low shrubs over Triodia schinzii very open hummock grassland.**Veg Condition** **Phase 1:** Excellent **Phase 2:** Excellent**Fire Age** **Phase 1:** Burnt 3-5 years ago **Phase 2:** Burnt 3-5 years ago**SPECIES LIST:**

Species	Phase 1			Phase 2			Comments
	Cover (%)	Height (cm)	Specimen	Cover (%)	Height (cm)	Specimen	
Acacia anaticeps	3	190		3	190		
Acacia platycarpa 'Desert Form Non-Pruinose'	1	80		1	80		
Acacia tumida var. kulparn	0.5	170	WIN14-01	0.5	170		
Androcalva loxophylla	0.1	50		0.1	50		
Aristida holathera var. holathera	0.5	40	WIN14-04	0.5	40		
Calytrix carinata	0.1	60		0.1	60		
Cassytha capillaris				0.1	50		
Cyanostegia cyanocalyx	0.1	100		0.1	100		
Dampiera cinerea	1.5	50		1.5	50		
Dicrastylis doranii	1	60		1	60		
Dodonaea coriacea	0.1	40		0.1	40		
Eriachne aristidea	0.1	40		0.1	40		
Eriachne obtusa	0.1	40		0.1	40		
Gompholobium simplicifolium	0.1	70		0.1	70		
Goodenia armitiana				0.1	20		
Grevillea eriostachya	0.1	170		0.1	170		
Grevillea stenobotrya	4	190		4	190		
Grevillea wickhamii subsp. hispidula	0.5	250	WIN14-05	0.5	250		
Gyrostemon tepperi	0.1	110		0.1	110		
Halgania solanacea var. solanacea	0.1	40		0.1	40		
Jacksonia aculeata	0.1	50		0.1	50		
Newcastelia cladotricha				0.1	50	WIN14R-01	
Petalostylis cassioides	3	100		3	100		
Scaevola parvifolia subsp. parvifolia	0.1	40		0.1	40		
Spermacoce occidentalis	0.1	30	WIN14-02	0.1	30		
Tephrosia arenicola	0.1	60	WIN14-03	0.1	60		
Thinicola incana	1	190		1	190		
Triodia schinzii	8	40		8	40		



Phase 1



Phase 2

Rio Tinto Copper - Winu Project**Described by** Phase 1: PL/RM Phase 2: SCRM**Type** Quadrat 50x50m**Location** MIA**Central Coordinate** 377425 mE, 7702785 mN.**Habitat** Plain (R2)**Soil** Loamy sand**Rock Type** N/A**Vegetation** **Phase 1:** Grevillea wickhamii scattered shrubs over Mirbelia viminalis, (Tephrosia arenicola) low open shrubland over Triodia brizoides, (T. schinzii) open hummock grassland.**Phase 2:** Grevillea wickhamii scattered shrubs over Mirbelia viminalis, (Tephrosia arenicola) low open shrubland over Triodia brizoides, (T. schinzii) open hummock grassland.**Veg Condition** **Phase 1:** Excellent **Phase 2:** Excellent**Fire Age** **Phase 1:** Burnt 3-5 years ago **Phase 2:** Burnt 3-5 years ago**SPECIES LIST:**

Species	Phase 1			Phase 2			Comments
	Cover (%)	Height (cm)	Specimen	Cover (%)	Height (cm)	Specimen	
Acacia ancistrocarpa	0.1	90		0.1	90		
Acacia drepanocarpa subsp. latifolia	0.1	100		0.1	100		
Amphipogon sericeus	0.5	40	WIN15-03	0.5	40		
Calytrix carinata	1	80	WIN15-02	1	80		
Cassytha capillaris	0.1	20		0.1	20		
Codonocarpus cotinifolius	0.1	130		0.1	130		
Corchorus sidoides subsp. sidoides				0.1	20		
Dampiera candicans	0.1	40		0.1	40		
Dicrastylis cordifolia	0.1	40		0.1	40		
Dodonaea coriacea	0.1	40		0.1	40		
Eragrostis aff. eriopoda	0.1	40	WIN15-05	0.1	40		
Eriachne lanata	0.1	40					
Goodenia azurea subsp. hesperia	0.1	50		0.1	50		
Grevillea eriostachya	0.1	60		0.1	60		
Grevillea wickhamii subsp. hispidula	1	150		1	150		
Gyrostemon tepperi	0.1	40		0.1	40		
Halgania solanacea var. solanacea	0.1	40		0.1	40		
Leptosema anomalum	0.1	40	WIN15-04	0.1	40		
Mirbelia viminalis	7	140		7	140		
Ptilotus astrolasius	0.1	50					
Ptilotus calostachyus	0.1	80		0.1	80		
Scaevola parvifolia subsp. parvifolia	0.1	40					
Tephrosia arenicola	0.5	80		0.5	80		
Trigastroteca molluginea	0.1	15		0.1	15		
Triodia brizoides	16	30	WIN15-01	16	30		
Triodia schinzii	1	40		1	40		



Phase 1



Phase 2

Rio Tinto Copper - Winu Project**Described by** Phase 1: PL/RM Phase 2: SCRM**Type** Quadrat 50x50m**Location** MIA**Central Coordinate** 377216 mE, 7703108 mN.**Habitat** Plain, Swale (R2)**Soil** Sand**Rock Type** N/A**Vegetation** **Phase 1:** *Grevillea wickhamii* subsp. *hispidula* scattered tall shrubs over *Mirbelia viminalis*, (*Acacia hilliana*, *Calytrix carinata*) low shrubland over *Triodia brizoides*, (*T. schinzii*) open hummock grassland.**Phase 2:** *Grevillea wickhamii* subsp. *hispidula* scattered tall shrubs over *Mirbelia viminalis*, (*Acacia hilliana*, *Calytrix carinata*) low shrubland over *Triodia brizoides*, (*T. schinzii*) open hummock grassland.**Veg Condition** **Phase 1:** Excellent **Phase 2:** Excellent**Fire Age** **Phase 1:** Burnt 3-5 years ago **Phase 2:** Burnt 3-5 years ago**SPECIES LIST:**

Species	Phase 1			Phase 2			Comments
	Cover (%)	Height (cm)	Specimen	Cover (%)	Height (cm)	Specimen	
<i>Acacia ancistrocarpa</i>	0.1	60		0.1	60		
<i>Acacia hilliana</i>	4	40		4	40		
<i>Amphipogon sericeus</i>	0.1	30		0.1	30		
<i>Calytrix carinata</i>	2	40		2	40		
<i>Cassytha capillaris</i>	0.1	30		0.1	30		
<i>Dampiera candidans</i>	0.1	45		0.1	45		
<i>Dicrasyllis cordifolia</i>	0.1	30		0.1	30		
<i>Dodonaea coriacea</i>	0.1	50		0.1	50		
<i>Eriachne lanata</i>	0.1	35		0.1	35		
<i>Goodenia armitiana</i>				0.1	30		
<i>Goodenia azurea</i> subsp. <i>hesperia</i>				0.1	20		
<i>Grevillea eriostachya</i>	0.1	25		0.1	25		
<i>Grevillea wickhamii</i> subsp. <i>hispidula</i>	1	210		1	210		
<i>Halgania solanacea</i> var. <i>solanacea</i>	0.1	25		0.1	25		
<i>Indigofera boviperda</i> subsp. <i>eremaea</i>	0.1	40		0.1	40		
<i>Jacksonia aculeata</i>				0.1	50		
<i>Leptosema anomalum</i>	0.1	30		0.1	30		
<i>Mirbelia viminalis</i>	20	90		20	90		
<i>Ptilotus calostachyus</i>	0.1	60		0.1	60		
<i>Seringia exastia</i>	0.5	50	WIN16-01	0.5	50		
<i>Sida arenicola</i>	0.1	90	WIN16-02	0.1	90		
<i>Tephrosia arenicola</i>	0.5	50		0.5	50		
<i>Trigastrotheca molluginea</i>	0.1	30		0.1	30		
<i>Triodia brizoides</i>	18	30		18	30		
<i>Triodia schinzii</i>	1	30		1	30		



Phase 1



Phase 2

Rio Tinto Copper - Winu Project**Described by** Phase 1: PL/RM Phase 2: SCRM**Type** Quadrat 50x50m**Location** MIA**Central Coordinate** 373029 mE, 7702603 mN.**Habitat** Pindan dune (D2)**Soil** Sand**Rock Type** N/A**Vegetation** **Phase 1:** Erythrophleum chlorostachys scattered low trees over Acacia platycarpa, A. tumida var. kulparn, (Thinicola incana) open shrubland over Dampiera cinerea, Gompholobium simplicifolium low open shrubland over Triodia schinzii open hummock grassland.**Phase 2:** Erythrophleum chlorostachys scattered low trees over Acacia platycarpa, A. tumida var. kulparn, (Thinicola incana) open shrubland over Dampiera cinerea, Gompholobium simplicifolium low open shrubland over Triodia schinzii open hummock grassland.**Veg Condition** **Phase 1:** E Very Good **Phase 2:** Very Good**Fire Age** **Phase 1:** Burnt 3-5 years ago **Phase 2:** Burnt 3-5 years ago**SPECIES LIST:**

Species	Phase 1			Phase 2			Comments
	Cover (%)	Height (cm)	Specimen	Cover (%)	Height (cm)	Specimen	
Acacia anaticeps	0.1	60		0.1	60		
Acacia drepanocarpa subsp. latifolia	0.1	100		0.1	100		
Acacia platycarpa 'Desert Form Pruinose'	7	140		7	140		
Acacia tumida var. kulparn	2	170		2	170		
Aristida holathera var. holathera	0.5	40		0.5	40		
Bonamia erecta	0.1	40					
Calytrix carinata	0.1	170		0.1	170		
Cassytha capillaris	0.1	40		0.1	40		
Cyanostegia cyanocalyx	0.1	60		0.1	60		
Dampiera cinerea	3	50		3	50		
Dicrastylis doranii	0.1	50		0.1	50		
Eriachne aristidea				0.1	20		
Eriachne helmsii	0.1	50	WIN17-02	0.1	50		
Eriachne obtusa				0.1	40	WIN17R-01	
Erythrophleum chlorostachys	1	260		1	260		
Gompholobium simplicifolium	1	50		1	50		
Grevillea eriostachya	0.1	90		0.1	90		
Grevillea stenobotrya	0.1	140		0.1	140		
Grevillea wickhamii subsp. hispidula	0.5	280	WIN17-01	0.5	280		
Gyrostemon tepperi	0.1	40		0.1	40		
Halgania solanacea var. solanacea	0.1	40		0.1	40		
Paraneurachne muelleri				0.1	20		
Petalostylis cassioides	0.5	100		0.5	100		
Scaevola parvifolia subsp. parvifolia	0.5	40		0.5	40		
Seringia exastia	0.1	60		0.1	60		
Thinicola incana	0.5	190		0.5	190		
Triodia schinzii	12	40		12	40		



Phase 1



Phase 2

Rio Tinto Copper - Winu Project**Described by** Phase 1: PL/RM Phase 2: SCRM**Type** Quadrat 50x50m**Location** MIA**Central Coordinate** 373140 mE, 7703065 mN.**Habitat** Pindan dune (P6)**Soil** Loamy sand**Rock Type** N/A**Vegetation** **Phase 1:** Sorghum plumosum var. plumosum very open tall tussock grassland over Calytrix carinata, Gompholobium simplicifolium, Bonamia erecta low open shrubland.**Phase 2:** Sorghum plumosum var. plumosum very open tall tussock grassland over Calytrix carinata, Gompholobium simplicifolium, Bonamia erecta low open shrubland.**Veg Condition** **Phase 1:** Excellent **Phase 2:** Excellent**Fire Age** **Phase 1:** Burnt 1-2 years ago **Phase 2:** Burnt 1-2 years ago**SPECIES LIST:**

Species	Phase 1			Phase 2			Comments
	Cover (%)	Height (cm)	Specimen	Cover (%)	Height (cm)	Specimen	
Amphipogon sericeus	0.5	40		0.5	40		
Aristida holathera var. holathera	0.1	30		0.1	30		
Bonamia erecta	1	40		1	40		
Calytrix carinata	1	60		1	60		
Dampiera candidans				0.1	15		
Dicrastyli cordifolia	0.1	40		0.1	40		
Dodonaea coriacea	0.1	80					
Eragrostis eriopoda	0.1	40	WIN18-01				
Eriachne lanata	0.1	40		0.1	40		
Eriachne obtusa				0.1	30	WIN18R-01	
Gompholobium simplicifolium	1	50		1	50		
Grevillea wickhamii subsp. hispidula	0.1	40		0.1	40		
Halgania solanacea var. solanacea	0.1	40		0.1	40		
Indigofera boviparda subsp. eremaea	0.1	40		0.1	40		
Jacksonia aculeata	0.1	50		0.1	50		
Sorghum plumosum var. plumosum	9	140		9	140		
Trigastrotheca molluginea	0.1	15		0.1	15		
Triodia schinzii	0.1	10		0.1	10		



Phase 1



Phase 2

Rio Tinto Copper - Winu Project**Described by** Phase 1: PL/RM Phase 2: SCRM**Type** Quadrat 50x50m**Location** MIA**Central Coordinate** 377714 mE, 7702462 mN.**Habitat** Low lateritic rise (R2)**Soil** Loamy sand**Rock Type** N/A**Vegetation** **Phase 1:** Acacia drepanocarpa subsp. latifolia, A. orthocarpa, (Grevillea wickhamii subsp. hispidula) open shrubland over Mirbelia viminalis, (Calytrix carinata) low open shrubland over Triodia brizoides, (T. schinzii) open hummock grassland.**Phase 2:** Acacia drepanocarpa subsp. latifolia, A. orthocarpa, (Grevillea wickhamii subsp. hispidula) open shrubland over Mirbelia viminalis, (Calytrix carinata) low open shrubland over Triodia brizoides, (T. schinzii) open hummock grassland.**Veg Condition** **Phase 1:** Excellent **Phase 2:** Excellent**Fire Age** **Phase 1:** Burnt 3-5 years ago **Phase 2:** Burnt 3-5 years ago**SPECIES LIST:**

Species	Phase 1			Phase 2			Comments
	Cover (%)	Height (cm)	Specimen	Cover (%)	Height (cm)	Specimen	
Acacia ancistrocarpa	0.1	100		0.1	100		
Acacia colei	0.1	50		0.1	50		
Acacia drepanocarpa subsp. latifolia	2	160		2	160		
Acacia monticola	0.1	70		0.1	70		
Acacia orthocarpa	1	160		1	160		
Aristida holathera var. holathera	0.1	30		0.1	30		
Calytrix carinata	1	70	WIN19-02	1	70		
Cassytha capillaris				0.1	5		
Codonocarpus cotinifolius	0.1	100		0.1	100		
Corchorus sidoides subsp. vermicularis	0.1	40					
Dampiera candidans	0.5	40		0.5	40		
Dicrastylis cordifolia	0.1	40		0.1	40		
Dicrastylis sp.	0.1	60	WIN19-01	0.1	60		
Dodonaea coriacea	0.1	50		0.1	50		
Eriachne lanata	0.1	50		0.1	50		
Goodenia armitiana	0.1	40		0.1	40		
Goodenia azurea subsp. hesperia	0.1	40		0.1	40		
Grevillea wickhamii subsp. hispidula	0.5	100		0.5	100		
Gyrostemon tepperi	0.1	90		0.1	90		
Halgania solanacea var. solanacea	0.1	40		0.1	40		
Indigofera boviparda subsp. eremaea	0.1	40		0.1	40		
Jacksonia aculeata				0.1	50		
Mirbelia viminalis	6	70		6	70		
Paraneurachne muelleri				0.1	20		
Ptilotus arthrolasius	0.1	40					
Ptilotus calostachyus	0.1	70		0.1	70		
Scaevola parvifolia subsp. parvifolia				0.1	10		
Seringia exastia	0.1	60		0.1	60		

Species	Phase 1			Phase 2			Comments
	Cover (%)	Height (cm)	Specimen	Cover (%)	Height (cm)	Specimen	
Sida arenicola	0.1	120					
Tephrosia arenicola	0.1	60		0.1	60		
Trigastrotheca molluginea	0.1	15					
Triodia brizoides	19	30		19	30		
Triodia schinzii	2	40		2	40		



Phase 1



Phase 2

Rio Tinto Copper - Winu Project**Described by** Phase 1: PL/RM Phase 2: SCRM**Type** Quadrat 50x50m**Location** MIA**Central Coordinate** 380811 mE, 7702732 mN.**Habitat** Plain (R1)**Soil** Loamy sand**Rock Type** N/A**Vegetation** **Phase 1:** Acacia orthocarpa scattered tall shrubs over A. bivenosa, A. ancistrocarpa low open shrubland over Triodia brizoides, (T. schinzii, T. epactia) open hummock grassland.**Phase 2:** Acacia orthocarpa scattered tall shrubs over A. bivenosa, A. ancistrocarpa open shrubland over Triodia brizoides, (T. schinzii, T. epactia) open hummock grassland.**Veg Condition** **Phase 1:** Excellent **Phase 2:** Excellent**Fire Age** **Phase 1:** Patchily burnt – 1-2 years ago, and 3-5 years ago **Phase 2:** Patchily burnt – 1-2 years ago, and 3-5 years ago**SPECIES LIST:**

Species	Phase 1			Phase 2			Comments
	Cover (%)	Height (cm)	Specimen	Cover (%)	Height (cm)	Specimen	
Acacia ancistrocarpa	0.5	60		0.5	60		
Acacia bivenosa	1	120	WIN20-04	1	120		
Acacia orthocarpa	1	220	WIN20-01	1	220		
Aristida holathera var. holathera	0.1	40					
Calytrix carinata	0.1	40		0.1	40		
Dampiera candidans	0.1	40		0.1	40		
Eriachne aristidea	0.1	30		0.1	30		
Euploca pachyphylla	0.1	30	WIN20-03	0.1	30		
Euploca sp.	0.1	30	WIN20-07				
Goodenia armitiana	0.1	40		0.1	40		
Grevillea wickhamii subsp. hispidula	0.1	100		0.1	100		
Halgania solanacea var. solanacea	0.1	40		0.1	40		
Indigofera monophylla	0.1	80	WIN20-02	0.1	80		
Mirbelia viminalis	0.1	70		0.1	70		
Panicum australiense var. australiense	0.1	10					
Paraneurachne muelleri	0.1	40		0.1	40		
Ptilotus calostachyus	0.1	80		0.1	80		
Ptilotus fusiformis				0.1	10	WIN20R-01	
Senna notabilis	0.1	25		0.1	25		
Sporobolus australasicus	0.1	25	WIN20-05				
Streptoglossa macrocephala				0.1	20		
Streptoglossa sp.	0.1	40		0.1	40		
Tephrosia arenicola	0.5	50		0.5	50		
Tribulus hirsutus	0.1	8	WIN20-06	0.1	8		
Trigastrotheca molluginea	0.1	15		0.1	15		
Triodia brizoides	10	40		10	40		
Triodia epactia	1	40		1	40		
Triodia schinzii	2	40		2	40		



Phase 1



Phase 2

Rio Tinto Copper - Winu Project**Described by** Phase 1: PL/RM Phase 2: SCRM**Type** Quadrat 50x50m**Location** MIA**Central Coordinate** 381245 mE, 7702720 mN.**Habitat** Plain, low lying between dunes (R1)**Soil** Loamy sand**Rock Type** Ironstone/laterite**Vegetation** Phase 1: Acacia bivenosa open shrubland over Triodia brizoides open hummock grassland.
Phase 2: Acacia bivenosa open shrubland over Triodia brizoides, (T. schinzii) open hummock grassland.**Veg Condition** Phase 1: Excellent Phase 2: Excellent**Fire Age** Phase 1: Patchily burnt: Burnt <1 year ago/ No sign of recent fire Phase 2: Patchily burnt: Burn <1 year ago/ No sign of recent fire**SPECIES LIST:**

Species	Phase 1			Phase 2			Comments
	Cover (%)	Height (cm)	Specimen	Cover (%)	Height (cm)	Specimen	
Abildgaardia oxystachya	0.1	15	WIN21-09	0.1	15		
Acacia adsurgens	0.1	50	WIN21-04	0.1	50		
Acacia ancistrocarpa	0.1	100		0.1	100		
Acacia bivenosa	2	150		2	150		
Acacia tenuissima	0.1	80	WIN21-02	0.1	80		
Aristida holathera var. holathera	1	15		1	15		
Arivela viscosa	0.1	40					
Corchorus sidoides subsp. vermicularis	0.1	10		0.1	10		
Dicrastylis cordifolia	0.1	10					
Eragrostis eriopoda	0.1	20	WIN21-03	0.1	20		
Eriachne aristidea	0.1	15		0.1	15		
Eriachne lanata	0.1	20					
Euploca cunninghamii	0.1	15	WIN21-08	0.1	15		
Euploca glabella	0.1	40	WIN21-05				
Euploca ovalifolia	0.1	5		0.1	5		
Evolvulus alsinoides	0.1	10	WIN21-06				
Fimbristylis dichotoma	0.1	20	WIN21-07	0.1	20	WIN21R-01	
Goodenia armitiana	0.1	30		0.1	30		
Haloragis gossei var. gossei				0.1	5	WIN21R-02	
Indigofera monophylla	0.1	45		0.1	45		
Panicum australiense var. australiense	0.1	10		0.1	10		
Paraneurachne muelleri	0.1	30		0.1	30		
Ptilotus calostachyus	0.1	15		0.1	15		
Senna notabilis	0.1	20		0.1	20		
Tephrosia arenicola	0.1	40		0.1	40		
Tribulus hirsutus	0.1	5	WIN21-01	0.1	5		
Trigastrotheca molluginea				0.1	5		
Triodia brizoides	15	20		15	20		
Triodia schinzii	0.1	15		5	15		



Phase 2 - NW



Phase 2 - SE

Rio Tinto Copper - Winu Project**Described by** Phase 1: PL/RM Phase 2: SCRM**Type** Quadrat 50x50m**Location** MIA**Central Coordinate** 381682 mE, 7702525 mN.**Habitat** Low semi lateritic rise: calcrete chert (R1)**Soil** Loamy sand**Rock Type** N/A**Vegetation** Phase 1: Acacia bivenosa, A. ancistrocarpa open shrubland over Triodia brizoides open hummock grassland.

Phase 2: Acacia bivenosa, A. ancistrocarpa open shrubland over Triodia brizoides open hummock grassland.

Veg Condition Phase 1: Excellent Phase 2: Excellent**Fire Age** Phase 1: Burnt 3-5 years ago fire Phase 2: Burnt 3-5 years ago**SPECIES LIST:**

Species	Phase 1			Phase 2			Phase 3			Comments
	Cover (%)	Height (cm)	Specimen	Cover (%)	Height (cm)	Specimen	Cover (%)	Height (cm)	Specimen	
Acacia ancistrocarpa	1	140		1	140					
Acacia bivenosa	2	140		2	140					
Aristida holathera var. holathera	0.1	30		0.1	30					
Eragrostis eriopoda	0.1	40	WIN22-00							
Eriachne pulchella				0.1	5	WIN22R-01				
Euploca cunninghamii	0.1	25								
Euploca pachyphylla	0.1	30		0.1	30					
Euploca sp.	0.1	25								
Goodenia armitiana	0.1	40		0.1	40					
Halgania solanacea var. solanacea	0.1	40								
Indigofera monophylla	0.1	120		0.1	120					
Paraneurachne muelleri	0.1	40		0.1	40					
Ptilotus exaltatus	0.1	30	WIN22-01	0.1	30					
Sida arenicola				0.1	50					
Sporobolus australasicus	0.1	25								
Streptoglossa decurrens	0.1	40		0.1	40					
Trianthema triquetrum	0.1	10	WIN22-02							
Triodia brizoides	22	40		25	40					



Phase 1



Phase 2

Rio Tinto Copper - Winu Project**Described by** Phase 1: PL/RM Phase 2: SCRM**Type** Quadrat 50x50m**Location** MIA**Central Coordinate** 380249 mE, 7702678 mN.**Habitat** Pindan plain (P4)**Soil** Sand**Rock Type** N/A**Vegetation** **Phase 1:** Acacia orthocarpa, Petalostylis cassioides, (Dicrastylis cordifolia) low open shrubland over Bonamia erecta, Goodenia armitiana, Scaevola parvifolia very open herbland over Triodia schinzii very open hummock grassland.**Phase 2:** Acacia orthocarpa, Petalostylis cassioides, (Dicrastylis cordifolia) low open shrubland over Bonamia erecta, Goodenia armitiana, Scaevola parvifolia very open herbland over Triodia schinzii very open hummock grassland.**Veg Condition** **Phase 1:** Excellent **Phase 2:** Excellent**Fire Age** **Phase 1:** Burnt 1-2 years ago fire **Phase 2:** Burnt 1-2 years ago**SPECIES LIST:**

Species	Phase 1			Phase 2			Comments
	Cover (%)	Height (cm)	Specimen	Cover (%)	Height (cm)	Specimen	
Acacia monticola				0.1	5		
Acacia orthocarpa	3	100		3	100		
Amphipogon sericeus	0.1	50					
Aristida holathera var. holathera	0.1	30		0.1	30		
Bonamia erecta	4	40		4	40		
Calytrix carinata				0.1	30		
Dampiera candidans	0.1	50		0.1	50		
Dicrastylis cordifolia	2	40		2	40		
Eriachne lanata	0.1	50		0.1	50		
Gompholobium simplicifolium	0.1	50		0.1	50		
Goodenia armitiana	2	40		2	40		
Grevillea wickhamii subsp. hispidula	0.1	80		0.1	80		
Gyrostemon tepperi	0.1	50		0.1	50		
Hakea macrocarpa	0.1	80	=	0.1	80		
Halgania solanacea var. solanacea	0.1	40		0.1	40		
Hibiscus leptocladus	0.1	40		0.1	40		
Indigofera boviparda subsp. eremaea	0.5	40		0.5	40		
Jacksonia aculeata	0.1	50		0.1	50		
Owenia reticulata	0.5	500		0.5	500		
Panicum australiense var. australiense	0.1	20		0.1	20		
Petalostylis cassioides	3	80		3	80		
Ptilotus astrolasius	0.5	40		0.5	40		
Ptilotus calostachyus	0.1	70		0.1	70		
Scaevola parvifolia subsp. parvifolia	1	30	WIN23-01	1	30		
Tephrosia arenicola	0.1	50		0.1	50		
Triodia schinzii	3	15		3	15		



Phase 1



Phase 2

Rio Tinto Copper - Winu Project**Described by** Phase 1: PL/RM Phase 2: SCRM**Type** Quadrat 50x50m**Location** MIA**Central Coordinate** 379908 mE, 7702979 mN.**Habitat** Pindan plain (P4)**Soil** Sand**Rock Type** N/A**Vegetation** **Phase 1:** Owenia reticulata scattered low trees over Acacia orthocarpa, Dicrasyli cordifolia low open shrubland over Bonamia erecta, (Goodenia armitiana, Scaevola parvifolia) very open herbland over Triodia schinzii very open hummock grassland.**Phase 2:** Owenia reticulata scattered low trees over Acacia orthocarpa open shrubland over Dicrasyli cordifolia low open shrubland over Bonamia erecta, (Goodenia armitiana, Scaevola parvifolia) very open herbland over Triodia schinzii very open hummock grassland.**Veg Condition** **Phase 1:** Excellent **Phase 2:** Excellent**Fire Age** **Phase 1:** Burnt 1-2 years ago fire **Phase 2:** Burnt 1-2 years ago**SPECIES LIST:**

Species	Phase 1			Phase 2			Comments
	Cover (%)	Height (cm)	Specimen	Cover (%)	Height (cm)	Specimen	
Abildgaardia oxystachya	0.1	30	WIN24-05	0.1	30		
Acacia monticola				0.1	5		
Acacia orthocarpa	2.5	100		2.5	100		
Amphipogon sericeus	0.1	50		0.1	50		
Androcalva loxophylla	0.1	40		0.1	40		
Aristida holathera var. holathera	0.5	30		0.5	30		
Bonamia erecta	4	40		4	40		
Calytrix carinata	0.1	50	WIN24-01	0.1	50		
Corechoris sidoides subsp. vermicularis	0.1	40	WIN24-03	0.1	40		
Dampiera candidans	0.1	50		0.1	50		
Dicrasyli cordifolia	2	40		2	40		
Eragrostis eriopoda	0.1	40		0.1	40		
Eriachne aristidea	0.1	30		0.1	30		
Eriachne lanata	0.1	50		0.1	50		
Euploca diversifolia	0.1	25	WIN24-02	0.1	25		
Goodenia armitiana	1	40		1	40		
Grevillea wickhamii subsp. hispidula	0.1	80		0.1	80		
Gyrostemon tepperi	0.1	50		0.1	50		
Hakea macrocarpa	0.1	170		0.1	170		
Halgania solanacea var. solanacea	0.1	40		0.1	40		
Hibiscus leptocladus	0.1	40		0.1	40		
Jacksonia aculeata	0.1	40		0.1	40		
Owenia reticulata	0.1	500		0.1	500		
Panicum australiense var. australiense	0.1	15		0.1	15		
Paraneurachne muelleri	0.1	40		0.1	40		
Ptilotus arthrolasius	0.1	40		0.1	40		
Ptilotus astrolasius	0.5	40		0.5	40		
Ptilotus calostachyus	0.1	70		0.1	70		

Species	Phase 1			Phase 2			Comments
	Cover (%)	Height (cm)	Specimen	Cover (%)	Height (cm)	Specimen	
Scaevola parvifolia subsp. parvifolia	1	30		1	30		
Senna notabilis	0.1	20					
Seringia exastia	0.5	50		0.5	50		
Sida arenicola	0.1	60		0.1	60		
Solanum centrale	0.1	40	WIN24-04	0.1	40		
Tephrosia arenicola	0.1	50		0.1	50		
Trigastrotheca molluginea	0.1	10		0.1	10		
Triodia schinzii	3	15		3	15		



Phase 1



Phase 2

Rio Tinto Copper - Winu Project**Described by** Phase 1: PL/RM Phase 2: SCRM**Type** Quadrat 50x50m**Location** MIA**Central Coordinate** 381145 mE, 7702171 mN.**Habitat** Pindan plain (P4)**Soil** Sand**Rock Type** N/A**Vegetation** **Phase 1:** Dicrastylis cordifolia, (Acacia orthocarpa) low open shrubland over Eriachne lanata, Amphipogon sericeus very open tussock grasses over Triodia schinzii very open hummock grassland.**Phase 2:** Acacia orthocarpa scattered shrubs over Dicrastylis cordifolia scattered low shrubs over Eriachne lanata, Amphipogon sericeus very open tussock grasses over Triodia schinzii very open hummock grassland.**Veg Condition** **Phase 1:** Excellent **Phase 2:** Excellent**Fire Age** **Phase 1:** Burnt 1-2 years ago fire **Phase 2:** Burnt 1-2 years ago**SPECIES LIST:**

Species	Phase 1			Phase 2			Comments
	Cover (%)	Height (cm)	Specimen	Cover (%)	Height (cm)	Specimen	
Acacia monticola	0.1	140		0.1	140		
Acacia orthocarpa	0.5	100		0.5	120		
Amphipogon sericeus	1	50		1	50		
Androcalva loxophylla	0.1	40					
Aristida holathera var. holathera	0.1	30					
Calytrix carinata	0.5	50		0.5	50		
Dampiera candidans	0.1	50		0.1	50		
Dicrastylis cordifolia	3	40		3	40		
Eragrostis eriopoda	0.1	30					
Eriachne aristidea	0.1	20					
Eriachne lanata	2	50		2	50		
Eulalia aurea	0.1	40		0.1	40		
Goodenia armitiana	0.5	40		0.5	40		
Grevillea wickhamii subsp. hispidula	0.1	80		0.1	80		
Halgania solanacea var. solanacea	0.1	40		0.1	40		
Leptosema anomalum	0.1	30		0.1	30		
Paraneurachne muelleri	0.1	40		0.1	40		
Ptilotus astrolasius				0.1	15		
Ptilotus calostachyus				0.1	30		
Scaevola parvifolia subsp. parvifolia	0.1	30		0.1	30		
Senna notabilis				0.1	5		
Sida arenicola	0.1	70		0.1	70		
Solanum centrale	0.1	40		0.1	40		
Tephrosia arenicola	0.1	50		0.1	50		
Trigastrotheca molluginea	0.1	10		0.1	10		
Triodia schinzii	8	15		8	15		



Phase 1



Phase 2

Rio Tinto Copper - Winu Project**Described by** Phase 1: PL/RM Phase 2: SCRM**Type** Quadrat 50x50m**Location** MIA**Central Coordinate** 379517 mE, 7703089 mN.**Habitat** Pindan plain, slightly elevated (P5)**Soil** Sand**Rock Type** N/A**Vegetation** **Phase 1:** Acacia orthocarpa, A. monticola, A. ancistrocarpa scattered shrubs over Mirbelia viminalis low shrubland over Triodia schinzii, (T. epactia) open hummock grassland.**Phase 2:** Acacia orthocarpa, A. monticola, A. ancistrocarpa scattered shrubs over Mirbelia viminalis low open heath over Triodia schinzii, (T. epactia) open hummock grassland.**Veg Condition** **Phase 1:** Excellent **Phase 2:** Excellent**Fire Age** **Phase 1:** Burnt 3-5 years ago fire **Phase 2:** Burnt 3-5 years ago**SPECIES LIST:**

Species	Phase 1			Phase 2			Comments
	Cover (%)	Height (cm)	Specimen	Cover (%)	Height (cm)	Specimen	
Acacia ancistrocarpa	0.5	140		0.5	140		
Acacia monticola	0.5	140		0.5	140		
Acacia orthocarpa	0.5	140		0.5	140		
Amphipogon sericeus	1	40	WIN26-01	0.1	40		
Bonamia erecta	0.1	40		0.1	40		
Calytrix carinata	0.1	50		0.1	50		
Cassytha capillaris	0.1	20		0.1	20		
Dampiera candidans	0.1	40		0.1	40		
Dicrastylis cordifolia	0.1	40		0.1	40		
Dodonaea coriacea	0.1	40					
Eriachne lanata	0.5	40					
Euploca vestita	0.1	40	WIN26-03	0.1	40		
Goodenia armitiana	0.1	40					
Goodenia azurea subsp. hesperia	0.1	40					
Grevillea wickhamii subsp. hispidula	0.1	170	WIN26-02	0.1	170		
Halgania solanacea var. solanacea				0.1	20		
Indigofera boviparda subsp. eremaea	0.1	40		0.1	40		
Jacksonia aculeata				0.1	40		
Leptosema anomalum				0.1	10		
Mirbelia viminalis	18	90		31	90		
Paraneurachne muelleri	0.1	40		0.1	40		
Ptilotus astrolasius				0.1	20		
Ptilotus calostachyus	0.1	50		0.1	50		
Scaevola parvifolia subsp. parvifolia	0.1	40					
Tephrosia arenicola				0.1	30		
Trigastrotheca molluginea	0.1	20		0.1	20		
Triodia brizoides	0.1	40	=	0.1	40		
Triodia epactia	4	40		4	40		

Species	Phase 1			Phase 2			Comments
	Cover (%)	Height (cm)	Specimen	Cover (%)	Height (cm)	Specimen	
Triodia schinzii	15	40		15	40		



Phase 1



Phase 2

Rio Tinto Copper - Winu Project**Described by** Phase 1: PL/RM Phase 2: SCRM**Type** Quadrat 50x50m**Location** MIA**Central Coordinate** 377461 mE, 7704480 mN.**Habitat** Pindan plain (P5)**Soil** Loamy sand**Rock Type** N/A**Vegetation** **Phase 1:** Erythrophleum chlorostachys scattered low trees over Mirbelia viminalis, (Calytrix carinata, Acacia drepanocarpa subsp. latifolia) low shrubland over Amphipogon sericeus very open tussock grassland over Triodia schinzii open hummock grassland.**Phase 2:** Erythrophleum chlorostachys scattered low trees over Mirbelia viminalis, (Calytrix carinata, Acacia drepanocarpa subsp. latifolia) low shrubland over Amphipogon sericeus very open tussock grassland over Triodia schinzii open hummock grassland.**Veg Condition** **Phase 1:** Excellent **Phase 2:** Excellent**Fire Age** **Phase 1:** Burnt 3-5 years ago fire **Phase 2:** Burnt 3-5 years ago**SPECIES LIST:**

Species	Phase 1			Phase 2			Comments
	Cover (%)	Height (cm)	Specimen	Cover (%)	Height (cm)	Specimen	
Acacia drepanocarpa subsp. latifolia	1	80		1	80		
Acacia hilliana	0.1	30		0.1	30		
Amphipogon sericeus	2	40	WIN27-01	2	40		
Bonamia erecta	0.5	40		0.5	40		
Calytrix carinata	3	80		3	80		
Dampiera candidans	0.1	50		0.1	50		
Dicrastyli cordifolia	0.1	40		0.1	40		
Dodonaea coriacea	0.1	40		0.1	40		
Eriachne lanata	1	40		1	40		
Erythrophleum chlorostachys	0.5	140		0.5	140		
Gompholobium simplicifolium	0.1	60		0.1	60		
Goodenia azurea subsp. hesperia	0.1	50					
Grevillea wickhamii subsp. hispidula	0.1	90		0.1	90		
Gyrostemon tepperi	0.1	90		0.1	90		
Halgania solanacea var. solanacea	1	40		1	40		
Indigofera monophylla				0.1	60		
Jacksonia aculeata	1	60		1	60		
Leptosema anomalum	0.1	30		0.1	30		
Mirbelia viminalis	15	90		15	90		
Ptilotus arthrolasius	0.1	30		0.1	30		
Ptilotus calostachyus	0.1	50		0.1	50		
Tephrosia arenicola	0.1	60					
Trigastrotheca molluginea				0.1	10		
Triodia brizoides	0.1	40		0.1	40		
Triodia schinzii	15	30		15	30		



Phase 1



Phase 2

Rio Tinto Copper - Winu Project**Described by** Phase 1: PL/RM Phase 2: SCRM**Type** Quadrat 50x50m**Location** MIA**Central Coordinate** 376896 mE, 7704609 mN.**Habitat** Pindan plain (P5)**Soil** Loamy sand**Rock Type** N/A**Vegetation** **Phase 1:** *Mirbelia viminalis*, (*Calytrix carinata*, *Acacia drepanocarpa* subsp. *latifolia*, *Seringia exastia*) low shrubland over *Eriachne lanata* very open tussock grassland over *Triodia schinzii* open hummock grassland.**Phase 2:** *Mirbelia viminalis*, (*Calytrix carinata*, *Acacia drepanocarpa* subsp. *latifolia*, *Seringia exastia*) low shrubland over *Eriachne lanata* very open tussock grassland over *Triodia schinzii* open hummock grassland.**Veg Condition** **Phase 1:** Excellent **Phase 2:** Excellent**Fire Age** **Phase 1:** Burnt 3-5 years ago **Phase 2:** Burnt 3-5 years ago**SPECIES LIST:**

Species	Phase 1			Phase 2			Comments
	Cover (%)	Height (cm)	Specimen	Cover (%)	Height (cm)	Specimen	
<i>Acacia ancistrocarpa</i>	0.1	70		0.1	70		
<i>Acacia drepanocarpa</i> subsp. <i>latifolia</i>	2	80		2	80		
<i>Amphipogon sericeus</i>	0.5	40		0.5	40		
<i>Aristida holathera</i> var. <i>holathera</i>				0.1	10		
<i>Bonamia erecta</i>	1	40		1	40		
<i>Calytrix carinata</i>	3	80		3	80		
<i>Cassytha capillaris</i>	0.1	30		0.1	30		
<i>Corchorus sidoides</i> subsp. <i>vermicularis</i>	0.1	50					
<i>Dampiera candidans</i>	0.1	50		0.1	50		
<i>Dicrasyli cordifolia</i>	0.1	40		0.1	40		
<i>Dodonaea coriacea</i>	0.1	40		0.1	40		
<i>Eragrostis eriopoda</i>	0.1	40		0.1	40		
<i>Eriachne lanata</i>	3	40		3	40		
<i>Gompholobium simplicifolium</i>	0.5	60		0.5	60		
<i>Goodenia azurea</i> subsp. <i>hesperia</i>	0.1	50					
<i>Goodenia hartiana</i>				0.1	20		
<i>Grevillea wickhamii</i> subsp. <i>hispidula</i>	0.1	90		0.1	90		
<i>Hakea macrocarpa</i>	0.1	70		0.1	70		
<i>Halgania solanacea</i> var. <i>solanacea</i>	0.5	40		0.5	40		
<i>Indigofera boviparda</i> subsp. <i>eremaea</i>				0.1	30		
<i>Jacksonia aculeata</i>	0.5	60		0.5	60		
<i>Leptosema anomalum</i>	0.1	30	=	0.1	30		
<i>Mirbelia viminalis</i>	13	90		13	90		
<i>Ptilotus calostachyus</i>	0.1	50		0.1	50		
<i>Scaevola parvifolia</i> subsp. <i>parvifolia</i>	0.1	40		0.1	40		
<i>Seringia exastia</i>	3	50		3	50		
<i>Sida</i> sp. Pindan (B.G. Thomson 3398)	0.1	40					
<i>Tephrosia arenicola</i>	0.1	60		0.1	60		

Species	Phase 1			Phase 2			Comments
	Cover (%)	Height (cm)	Specimen	Cover (%)	Height (cm)	Specimen	
Triodia schinzii	15	40		15	40		



Phase 1



Phase 2

Rio Tinto Copper - Winu Project

Described by Phase 1: PL/RM Phase 2: SCRM Phase 3: JP JW
Type Quadrat 50x50m
Location MIA
Central Coordinate 369857 mE, 7708844 mN.
Habitat Pindan plain (P2)
Soil Sand
Rock Type N/A
Vegetation

Site WIN029**Date** Phase 1: 17-May-19 Phase 2: 20-Sep-19 Phase 3: 17-Jun-22

Phase 1: Owenia reticulata scattered low trees over Acacia ancistrocarpa, (Hakea macrocarpa) open shrubland over Bonamia erecta very open herbland over Aristida holathera var. holathera, Eriachne lanata, Amphipogon sericeus very open tussock grassland over Triodia schinzii hummock grassland.

Phase 2: Owenia reticulata scattered low trees over Acacia ancistrocarpa, (Hakea macrocarpa) open shrubland over Bonamia erecta very open herbland over Aristida holathera var. holathera, Eriachne lanata, Amphipogon sericeus very open tussock grassland over Triodia schinzii hummock grassland.

Phase 2: Owenia reticulata scattered low trees over Acacia ancistrocarpa, (Hakea macrocarpa) open shrubland over Bonamia erecta very open herbland over Aristida holathera var. holathera, Eriachne lanata, Amphipogon sericeus very open tussock grassland over Triodia schinzii hummock grassland.

Veg Condition**Phase 1:** Excellent **Phase 2:** Excellent **Phase 3:** Excellent**Fire Age****Phase 1:** No sign of recent fire **Phase 2:** No sign of recent fire **Phase 3:** No sign of recent fire**SPECIES LIST:**

Species	Phase 1			Phase 2			Phase 3			Comments
	Cover (%)	Height (cm)	Specimen	Cover (%)	Height (cm)	Specimen	Cover (%)	Height (cm)	Specimen	
Acacia ancistrocarpa	7	250		7	250		7	250		
Acacia sericophylla	0.1	160		0.1	160		0.1	160		
Amphipogon sericeus	0.5	40		0.5	40		0.5	40		
Androcalva loxophylla	0.1	45		0.1	45		0.1	45		
Aristida holathera var. holathera	1	30		0.1	30		0.1	30		
Bonamia alatisemina	0.1	30		0.1	30		0.1	30		
Bonamia erecta	5	40		5	40		5	40		
Calytrix carinata	0.1	150		0.1	150		0.1	150		
Cassytha capillaris	0.1	30		0.1	30		0.1	30		
Corchorus sidoides subsp. vermicularis	0.1	20		0.1	20		0.1	20		
Dampiera candidans				0.1	25		0.1	25		
Dicrastyis cordifolia	0.1	40		0.1	40		0.1	40		
Dodonaea coriacea	0.1	40		0.1	40		0.1	40		
Eragrostis eriopoda				0.1	30	WIN29R-01	0.1	30		
Eragrostis sp.	0.1	10	WIN29-01							
Eriachne aristidea	0.1	25								
Eriachne lanata	0.5	40		0.1	40		0.1	40		
Eriachne obtusa	0.1	40		0.1	40		0.1	40		
Erythrophleum chlorostachys	0.1	120		0.1	120		0.1	120		
Goodenia armitiana	0.1	30		0.1	30		0.1	30		
Goodenia azurea subsp. hesperia	0.5	30								
Goodenia hartiana				0.1	30		0.1	30		
Grevillea wickhamii subsp. hispidula	0.1	110		0.1	110		0.1	110		
Hakea macrocarpa	1	180		1	180		1	180		
Halgania solanacea var. solanacea	0.1	40		0.1	40		0.1	40		

Species	Phase 1			Phase 2			Phase 3			Comments
	Cover (%)	Height (cm)	Specimen	Cover (%)	Height (cm)	Specimen	Cover (%)	Height (cm)	Specimen	
<i>Hibiscus leptocladus</i>				0.1	10					
<i>Indigofera boviparda</i> subsp. <i>eremaea</i>	0.1	40		0.1	40		0.1	40		
<i>Jacksonia aculeata</i>	0.1	60		0.1	60		0.1	60		
<i>Owenia reticulata</i>	0.5	400		0.5	400		0.5	400		
<i>Panicum australiense</i> var. <i>australiense</i>							0.1	10		
<i>Paraneurachne muelleri</i>	0.1	30		0.1	30		0.1	30		
<i>Petalostylis cassioides</i>	0.1	50		0.1	50		0.1	50		
<i>Ptilotus arthrolasius</i>				0.1	30		0.1	30		
<i>Ptilotus astrolasius</i>	0.1	30		0.1	30		0.1	30		
<i>Ptilotus calostachyus</i>	0.1	70								
<i>Scaevola parvifolia</i> subsp. <i>parvifolia</i>				0.1	10		0.1	10		
<i>Senna curvistyla</i>	0.1	50	WIN29-02							
<i>Sorghum plumosum</i> var. <i>plumosum</i>	0.5	110		0.5	110		0.5	110		
<i>Trigastrotheca molluginea</i>	0.1	20		0.1	20		0.1	20		
<i>Triodia schinzii</i>	28	40		28	40		28	40		



Phase 1



Phase 2

Rio Tinto Copper - Winu Project**Described by** Phase 1: PL/RM Phase 2: SCRM**Type** Quadrat 50x50m**Location** MIA**Central Coordinate** 369549 mE, 7709739 mN.**Habitat** Pindan plain (P2)**Soil** Sand**Rock Type** N/A**Vegetation** **Phase 1:** Erythrophleum chlorostachys scattered low trees over Acacia ancistrocarpa, (Hakea macrocarpa) tall shrubland over Sorghum plumosum scattered tall tussock grasses over Aristida holathera var. holathera, Amphipogon sericeus very open tussock grassland over Triodia schinzii open hummock grassland.**Phase 2:** Erythrophleum chlorostachys scattered low trees over Acacia ancistrocarpa, (Hakea macrocarpa) tall shrubland over Sorghum plumosum scattered tall tussock grasses over Aristida holathera var. holathera, Amphipogon sericeus very open tussock grassland over Triodia schinzii open hummock grassland.**Veg Condition** **Phase 1:** Excellent **Phase 2:** Excellent**Fire Age** **Phase 1:** No sign of recent fire **Phase 2:** No sign of recent fire**SPECIES LIST:**

Species	Phase 1			Phase 2			Comments
	Cover (%)	Height (cm)	Specimen	Cover (%)	Height (cm)	Specimen	
Acacia ancistrocarpa	15	250		15	250		
Acacia sericophylla	0.1	160		0.1	160		
Amphipogon sericeus	1	40	WIN30-05	1	40		
Androcalva loxophylla	0.1	45					
Aristida holathera var. holathera	1	30		0.1	30		
Aristida inaequiglumis	0.1	70	WIN30-01	0.1	70		
Bonamia alatisemina	0.1	30					
Calytrix carinata	0.1	150		0.1	150		
Cassytha capillaris	0.1	30		0.1	30		
Corchorus sidoides subsp. vermicularis	0.1	20	WIN30-03	0.1	20		
Dampiera cinerea	0.1	30		0.1	30		
Dicrastyli cordifolia	0.1	40		0.1	40		
Dodonaea coriacea	0.1	40					
Eragrostis aff. eriopoda	0.1	30					
Eragrostis eriopoda				0.1	30		
Eriachne aristidea	0.1	25					
Eriachne lanata	0.1	40		0.1	40		
Eriachne obtusa	0.1	40		0.1	40		
Erythrophleum chlorostachys	0.5	250		0.5	250		
Euploca vestita	0.1	25	WIN30-02				
Goodenia armitiana	0.1	30		0.1	30		
Goodenia azurea subsp. hesperia	1	30					
Goodenia hartiana				0.1	30		
Grevillea wickhamii subsp. hispidula	0.1	110		0.1	110		
Hakea macrocarpa	0.5	180		0.5	180		

Species	Phase 1			Phase 2			Comments
	Cover (%)	Height (cm)	Specimen	Cover (%)	Height (cm)	Specimen	
<i>Halgania solanacea</i> var. <i>solanacea</i>	0.1	40		0.1	40		
<i>Hibiscus leptocladus</i>	0.1	40		0.1	40		
<i>Indigofera boviparda</i> subsp. <i>eremaea</i>	0.1	40		0.1	40		
<i>Jacksonia aculeata</i>	0.1	60		0.1	60		
<i>Orianthera centralis</i>	0.1	30					
<i>Paraneurachne muelleri</i>	0.1	30		0.1	30		
<i>Petalostylis cassioides</i>	0.1	50					
<i>Polygala isingii</i>	0.1	10	WIN30-04	0.1	10	WIN30R-01	
<i>Ptilotus astrolasius</i>	0.1	30		0.1	30		
<i>Ptilotus calostachyus</i>	0.1	70		0.1	70		
<i>Sorghum plumosum</i> var. <i>plumosum</i>	0.5	110		0.5	110		
<i>Trigastrotheca molluginea</i>	0.1	20		0.1	20		
<i>Triodia schinzii</i>	12	40		12	40		



Phase 1



Phase 2

Rio Tinto Copper - Winu Project

Described by Phase 1: PL/RM Phase 2: SCRM Phase 3: JP JW
Type Quadrat 50x50m
Location MIA
Central Coordinate 371753 mE, 7706828 mN.
Habitat Pindan plain (P1)
Soil Sand
Rock Type N/A
Vegetation

Site WIN031**Date** Phase 1: 17-May-19 Phase 2: 20-Sep-19 Phase 3: 18-Jun-22

Phase 1: Erythrophleum chlorostachys low open woodland over Acacia platycarpa open shrubland over Gompholobium simplicifolium, Dicrasyllis cordifolia low open shrubland over Triodia schinzii open hummock grassland.

Phase 2: Erythrophleum chlorostachys low open woodland over Acacia platycarpa open shrubland over Gompholobium simplicifolium, Dicrasyllis cordifolia low open shrubland over Triodia schinzii open hummock grassland.

Phase 3: Erythrophleum chlorostachys low open woodland over Acacia platycarpa open shrubland over Gompholobium simplicifolium, Dicrasyllis cordifolia low open shrubland over Triodia schinzii open hummock grassland.

Veg Condition**Phase 1:** Excellent **Phase 2:** Excellent **Phase 3:** Good**Fire Age****Phase 1:** Burnt 3-5 years ago in small patches **Phase 2:** Burnt 3-5 years ago in small patches **Phase 3:** Burnt 5-8 years ago in small patches**Notes:****Phase 3:** Extensive clearing for tracks and drill pad near NW Corner.**SPECIES LIST:**

Species	Phase 1			Phase 2			Phase 3			Comments
	Cover (%)	Height (cm)	Specimen	Cover (%)	Height (cm)	Specimen	Cover (%)	Height (cm)	Specimen	
Acacia drepanocarpa subsp. latifolia	0.1	180		0.1	180		0.1	250		
Acacia platycarpa 'Desert Form Non-Pruinose'	6	120		6	120		5	120		
Acacia platycarpa 'Desert Form Pruinose'	3	95		3	95		3	95		
Amphipogon sericeus	0.1	40		0.1	40		0.1	40		
Aristida holathera var. holathera	0.1	40		0.1	40		0.1	40		
Bonamia erecta	0.1	30					0.1	30		
Calytrix carinata	0.1	50	WIN31-02	0.1	50		0.1	50		
Cassytha capillaris							0.1	40		
Dampiera candicans	0.1	40		0.1	40		0.1	40		
Dampiera cinerea	0.1	40		0.1	40		0.1	40		
Dicrasyllis cordifolia	1	40		1	40		1	40		
Dicrasyllis doranii	0.1	40								
Dodonaea coriacea	0.1	110		0.1	110		0.1	110		
Dodonaea hispidula var. arida							0.1	120		
Eragrostis eriopoda							0.1	40		Disturbance area
Eriachne lanata	0.1	50		0.1	50		0.1	50		
Erythrophleum chlorostachys	3	280		3	280		3	280		
Gompholobium simplicifolium	2	90		2	90		2	90		
Grevillea eriostachya	0.1	145		0.1	145		0.1	145		
Grevillea wickhamii subsp. hispidula	0.1	170	WIN31-01	0.1	170		0.1	170		
Gyrostemon tepperi	0.1	120		0.1	120		0.1	120		
Halgania solanacea var. solanacea	0.1	30		0.1	30		0.1	30		
Jacksonia aculeata	0.1	50		0.1	50		0.1	50		

Species	Phase 1			Phase 2			Phase 3			Comments
	Cover (%)	Height (cm)	Specimen	Cover (%)	Height (cm)	Specimen	Cover (%)	Height (cm)	Specimen	
Leptosema anomalum	0.1	20		0.1	20					
Newcastelia cladotricha							0.1	60		
Orianthera centralis	0.1	50		0.1	50		0.1	50	3101	
Panicum australiense var. australiense							0.1	10		
Scaevola parvifolia subsp. parvifolia	0.1	20								
Triodia schinzii	18	30		18	30		18	30		



Phase 1



Phase 2

Rio Tinto Copper - Winu Project**Described by** Phase 1: PL/RM Phase 2: SCRM**Type** Quadrat 50x50m**Location** MIA**Central Coordinate** 366016 mE, 7708422 mN.**Habitat** Swale (Ecotone)**Soil** Sand**Rock Type** N/A**Vegetation** **Phase 1:** *Owenia reticulata* scattered low trees over *Acacia tumida* var. *kulparn*, (*A. platycarpa*) open shrubland over *Dampiera cinerea*, *Gompholobium simplicifolium*, (*Jacksonia aculeata*, *Dicrastylis doranii*) low open shrubland over *Triodia schinzii* open hummock grassland.**Phase 2:** *Owenia reticulata* scattered low trees over *Acacia tumida* var. *kulparn*, (*A. platycarpa*) open shrubland over *Dampiera cinerea*, *Gompholobium simplicifolium*, (*Jacksonia aculeata*, *Dicrastylis doranii*) low open shrubland over *Triodia schinzii* open hummock grassland.**Phase 3:** *Owenia reticulata* scattered low trees over *Acacia tumida* var. *kulparn*, (*A. platycarpa*) open shrubland over *Dampiera cinerea*, *Gompholobium simplicifolium*, (*Jacksonia aculeata*, *Dicrastylis doranii*) low open shrubland over *Triodia schinzii* open hummock grassland.**Veg Condition** **Phase 1:** Excellent **Phase 2:** Excellent **Phase 3:** Excellent**Fire Age** **Phase 1:** No sign of recent fire **Phase 2:** No sign of recent fire **Phase 3:** No sign of recent fire**SPECIES LIST:****Phase 1****Phase 2**

Rio Tinto Copper - Winu Project**Site** WIN033**Described by** Phase 1: SCRM Phase 2: JW ND**Date** Phase 1: 24-Aug-19 Phase 2: 5-Apr-23**Type** Quadrat 50x50m**Location** RAC**Central Coordinate** 259064 mE, 7803864 mN.**Habitat** Sand Plain (P10b)**Soil** Sand**Rock Type** N/A**Vegetation** **Phase 1:** Acacia tumida var. kulparn, (Erythrophleum chlorostachys) scattered tall shrubs over A. platycarpa, Grevillea wickhamii subsp. hispidula scattered shrubs over Dicrastylis doranii, A. stellaticeps (Dampiera cinerea, Gompholobium simplicifolium) low open shrubland over Triodia schinzii open hummock grassland.**Phase 2:** Acacia tumida var. kulparn, (Erythrophleum chlorostachys) scattered tall shrubs over A. platycarpa, Grevillea wickhamii subsp. hispidula scattered shrubs over Dicrastylis doranii, A. stellaticeps (Dampiera cinerea, Gompholobium simplicifolium) low open shrubland over Triodia schinzii open hummock grassland.**Veg Condition** **Phase 1:** Excellent **Phase 2:** Excellent**Fire Age** **Phase 1:** No sign of recent fire **Phase 2:** No sign of recent fire**SPECIES LIST:**

Species	Phase 1			Phase 2			Comments
	Cover (%)	Height (cm)	Specimen	Cover (%)	Height (cm)	Specimen	
Abildgaardia oxystachya				0.1	20		
Acacia anaticeps	5	300		0.1	250		
Acacia colei var. colei				0.1	120		
Acacia sericophylla	0.1	150	WIN33-03	0.1	100		
Acacia stellaticeps	1	30		1	50		
Acacia tumida var. kulparn	5	60		0.1	120		
Aristida holathera var. holathera				0.1	40		
Boerhavia gardneri				0.1	10		
Bonamia alatisemina	0.1	15	WIN33-04	0.1	15		
Bulbostylis barbata				0.1	10		
Calandrinia stropholota				0.1	10		
Cassytha capillaris				0.1	30		
Corchorus sidoides subsp. sidoides				0.1	40		
Corymbia zygophylla	0.1	150		0.1	150		
Corynotheca gracilis	0.1	20	WIN33-05	0.1	20		
Cyanostegia cyanocalyx	0.1	80		0.1	80		
Eragrostis eriopoda				0.1	20		
Eriachne ciliata				0.1	20		
Erythrophleum chlorostachys	0.1	220		0.1	100		
Euphorbia psilosperma				0.1	30		
Evolvulus alsinoides				0.1	10		
Gardenia pyramidalis subsp. keartlandii	0.1	120		0.5	50		
Gompholobium simplicifolium	0.1	45		0.1	50		
Goodenia hartiana	0.1	20	WIN33-02	0.1	30		
Gyrostemon tepperi				0.1	110		

Species	Phase 1			Phase 2			Comments
	Cover (%)	Height (cm)	Specimen	Cover (%)	Height (cm)	Specimen	
<i>Hibiscus leptocladus</i>				0.1	20		
<i>Jacksonia aculeata</i>	0.1	40		0.1	40		
<i>Leptosema anomalum</i>				1	40		
<i>Panicum australiense</i> var. <i>australiense</i>				0.1	10		
<i>Polygala isingii</i>				0.1	15		
<i>Ptilotus arthrolasius</i>				0.1	10		
<i>Ptilotus astrolasius</i>				0.1	20		
<i>Sorghum plumosum</i> var. <i>plumosum</i>	0.1	50					
<i>Trianthema pilosum</i>				0.1	10		
<i>Tribulopsis marliesiae</i>				0.1	20		
<i>Triodia epactia</i>	30	40		20	60-100		
<i>Triodia schinzii</i>	20	40		3	60-120		



Rio Tinto Copper - Winu Project**Described by** Phase 1: SCRM Phase 2: JP LS**Type** Quadrat 50x50m**Location** RAC**Central Coordinate** 332935 mE, 7770593 mN.**Habitat** Sand Plain (P10a)**Soil** Sand**Rock Type** N/A**Vegetation** **Phase 1:** *Corymbia zygophylla*, (*Gardenia pyriformis* subsp. *keartlandii*) low open woodland over *Sorghum plumosum* var. *plumosum* scattered tussock grasses over *Triodia epactia* open hummock grassland**Phase 2:** *Corymbia zygophylla*, (*Gardenia pyriformis* subsp. *keartlandii*) low open woodland over *Sorghum plumosum* var. *plumosum* scattered tussock grasses over *Triodia epactia* open hummock grassland**Veg Condition** **Phase 1:** Excellent **Phase 2:** Excellent**Fire Age** **Phase 1:** No sign of recent fire **Phase 2:** No sign of recent fire**SPECIES LIST:**

Species	Phase 1			Phase 2			Comments
	Cover (%)	Height (cm)	Specimen	Cover (%)	Height (cm)	Specimen	
<i>Acacia ancistrocarpa</i>				0.1	100		
<i>Acacia monticola</i>	0.1	5		0.1	100		
<i>Acacia tumida</i> var. <i>kulparn</i>	0.1	90		0.1	300		
<i>Aristida holathera</i> var. <i>holathera</i>				0.1	40		
<i>Arivela microphylla</i>	0.1	30		0.1	30	34-08	
<i>Arivela viscosa</i>	0.1	30		0.1	30	34-09	
<i>Boerhavia gardneri</i>	0.1	30		0.1	30	34-07	
<i>Bonamia alatisemina</i>	0.1	20	WIN34-03	0.1	20		
<i>Bulbostylis barbata</i>				0.1	5		
<i>Cassutha capillaris</i>				0.1	40		
<i>Corchorus sidoides</i> subsp. <i>sidoides</i>				0.1	30	34-04	
<i>Corymbia zygophylla</i>	3	180	WIN34-07	3	300		
<i>Cucumis variabilis</i>	0.1	20		0.1	20		
<i>Cymbopogon oblectus</i>				0.1	50	34-03	
<i>Eragrostis eriopoda</i>	0.1	20		0.1	20	34-01	
<i>Eriachne ciliata</i>	0.1	15		0.1	15	34-02	
<i>Erythrophleum chlorostachys</i>				0.1	170		
<i>Euphorbia australis</i> var. <i>subtomentosa</i>				0.1	5	34-05	
<i>Euphorbia psilosperma</i>				0.1	10	34-06	
<i>Evolvulus alsinoides</i> var. <i>decumbens</i>	0.1	20	WIN34-02	0.1	20		
<i>Gardenia pyriformis</i> subsp. <i>keartlandii</i>	0.1	300		0.1	300		
<i>Goodenia armitiana</i>				0.1	20		
<i>Goodenia hartiana</i>	0.1	30		0.1	30		
<i>Leptosema anomalum</i>				0.1	20		
<i>Panicum australiense</i> var. <i>australiense</i>	0.1	5	WIN34-04	0.1	5		
<i>Ptilotus calostachyus</i>				0.1	90		
<i>Ptilotus polystachyus</i>	0.1	45		0.1	45		
<i>Senna notabilis</i>	0.1	15		0.1	15		

Species	Phase 1			Phase 2			Comments
	Cover (%)	Height (cm)	Specimen	Cover (%)	Height (cm)	Specimen	
<i>Setaria surgens</i>				0.1	30		
<i>Sida arenicola</i>				0.1	100		
<i>Sorghum plumosum</i> var. <i>plumosum</i>	0.5	60		0.5	60		
<i>Tephrosia</i> sp. D Kimberley Flora (R.D. Royce 1848)				0.1	30		
<i>Tinospora smilacina</i>	0.1	80	WIN34-05	0.1	80		
<i>Trianthema pilosum</i>				0.1	5		
<i>Tribulopsis marliesiae</i>	0.1	20	WIN34-01	0.1	20		
<i>Trigastrotheca molluginea</i>	0.1	15		0.1	15		
<i>Triodia epactia</i>	15	30	WIN34-06	30	30-150		
<i>Urochloa holosericea</i> subsp. <i>velutina</i>				0.1	10	34-10	



North



South

Rio Tinto Copper - Winu Project**Described by** Phase 1: SCRM Phase 2: JW JP**Type** Quadrat 50x50m**Location** RAC**Central Coordinate** 352638 mE, 7712739 mN.**Habitat** Sand Plain (P2)**Soil** Sand**Rock Type** N/A**Vegetation** **Phase 1:** Erythrophleum chlorostachys scattered low trees over Acacia ancistrocarpa tall shrubland over A. sericophylla scattered shrubs over Indigofera monophylla scattered low shrubs over Triodia schinzii hummock grassland**Phase 2:** Erythrophleum chlorostachys scattered low trees over Acacia ancistrocarpa tall shrubland over A. sericophylla scattered shrubs over Indigofera monophylla scattered low shrubs over Triodia schinzii hummock grassland**Veg Condition** **Phase 1:** Excellent **Phase 2:** Excellent**Fire Age** **Phase 1:** No sign of recent fire **Phase 2:** No sign of recent fire**SPECIES LIST:**

Species	Phase 1			Phase 2			Comments
	Cover (%)	Height (cm)	Specimen	Cover (%)	Height (cm)	Specimen	
Acacia ancistrocarpa	15	220		15	220		
Acacia sericophylla	1	150	WIN35-01	1	150		
Amphipogon sericeus	1	40		1	40		
Aristida holathera var. holathera	0.1	20	WIN35-03	0.1	20	3505	
Aristida inaequiglumis				0.1	40	3504	
Arivela uncifera	0.1	30		0.1	30		
Bonamia erecta				0.1	40		
Calytrix carinata	0.1	60		0.1	60		
Dicrastylis cordifolia	0.1	40		0.1	40		
Dodonaea coriacea	0.1	50		0.1	50		
Eragrostis eriopoda				0.1	40		
Eriachne lanata				0.1	40	3501	
Eriachne obtusa	0.1	30	WIN35-02	0.1	30	3503	
Erythrophleum chlorostachys	1	250		1	250		
Evolvulus alsinoides var. decumbens				0.1	10	3506	
Goodenia armitiana	0.1	30		0.1	30		
Grevillea eriostachya	0.1	70	WIN35-04	0.1	70		
Grevillea wickhamii	0.1	180		out	180		
Gyrostemon tepperi	0.1	100		out	100		
Hakea macrocarpa	0.1	90		0.1	90		
Halgania solanacea var. solanacea	0.1	40		0.1	40		
Indigofera boviperda subsp. eremaea				out	10		
Indigofera monophylla	2	40		2	40	3502	
Jacksonia aculeata	0.1	60		0.1	60		
Leptosema anomalum	0.1	15		0.1	15		
Panicum australiense var. australiense				0.1	10		
Ptilotus astrolasius	0.1	20		0.1	20		
Ptilotus calostachyus	0.1	50		0.1	50		

Species	Phase 1			Phase 2			Comments
	Cover (%)	Height (cm)	Specimen	Cover (%)	Height (cm)	Specimen	
<i>Seringia exastia</i>	0.1	60		0.1	60		
<i>Sida arenicola</i>	0.1	150		0.1	150		
<i>Sorghum plumosum</i> var. <i>plumosum</i>	0.1	50		0.1	50		
<i>Tephrosia</i> sp. D Kimberley Flora (R.D. Royce 1848)	0.1	5		0.1	5		
<i>Trichodesma zeylanicum</i> var. <i>zeylanicum</i>	0.1	60					
<i>Triodia schinzii</i>	45	40		45	40		



North west



South east

Rio Tinto Copper - Winu Project**Described by** Phase 1: SCRM Phase 2: JP LS**Type** Quadrat 50x50m**Location** RAC**Central Coordinate** 267979 mE, 7790296 mN.**Habitat** Sand Plain (P3)**Soil** Sand**Rock Type** N/A**Vegetation** **Phase 1:** Gardenia pyriformis subsp. keartlandii scattered low trees over Acacia sp. Nalgi (N.T. Burbidge 1317) open heath over Acacia stellaticeps scattered low shrubs over Triodia epactia, (T. schinzii) open hummock grassland**Phase 2:** Gardenia pyriformis subsp. keartlandii scattered low trees over Acacia sp. Nalgi (N.T. Burbidge 1317) open heath over Acacia stellaticeps scattered low shrubs over Triodia epactia, (T. schinzii) open hummock grassland**Veg Condition** **Phase 1:** Excellent **Phase 2:** Excellent**Fire Age** **Phase 1:** No sign of recent fire **Phase 2:** No sign of recent fire**SPECIES LIST:**

Species	Phase 1			Phase 2			Comments
	Cover (%)	Height (cm)	Specimen	Cover (%)	Height (cm)	Specimen	
Abildgaardia oxystachya				0.1	10	36-10	
Acacia ?drepanocarpa x trachycarpa	0.1	180	WIN36-14				NOT FOUND
Acacia ancistrocarpa	0.1	250		0.1	250		
Acacia colei var. colei	0.1	20	WIN36-18	0.1	20		
Acacia drepanocarpa subsp. latifolia	0.1	120	WIN36-09	0.1	120	36-01	
Acacia monticola				0.1	20	36-06	
Acacia sericophylla	0.1	15	WIN36-08	0.1	15		
Acacia sp. Nalgi (N.T. Burbidge 1317)	40	150		25	150		
Acacia stellaticeps	1	30		1	30		
Acacia stellaticeps				0.1	50		
Achyranthes aspera	0.1	30		0.1	40		
Aristida holathera var. holathera				0.1	30		
Arivela uncifera	0.1	15	WIN36-06	0.1	15		
Boerhavia gardneri				0.1	10	36-08	
Bonamia alatisemina	0.1	10	WIN36-05	0.1	10		
Bulbostylis barbata				0.1	10		
Calandrinia strophiolata				0.1	10		
Cassutha capillaris	0.1	20	WIN36-04	0.1	20		
Corchorus sidoides subsp. sidoides	0.1	30	WIN36-03	0.1	30	36-05	
Cucumis variabilis	0.1	20					
Cyperus conicus	0.1	30	WIN36-11	0.1	30	36-04	
Dodonaea coriacea				0.1	70		
Eragrostis eriopoda	0.1	30	WIN36-01	0.1	30	36-14	
Eriachne lanata	0.1	20	WIN36-16	0.1	20		
Eriachne obtusa	0.1	20	WIN36-15	0.1	20		
Euphorbia psilosperma				0.1	10		
Euploca cunninghamii				0.1	10	36-06	
Euploca vestita	0.1	30	WIN36-02	0.1	30		

Species	Phase 1			Phase 2			Comments
	Cover (%)	Height (cm)	Specimen	Cover (%)	Height (cm)	Specimen	
<i>Evolvulus alsinoides</i>	0.1	10		0.1	10		
<i>Gardenia pyriformis</i> subsp. <i>keartlandii</i>	0.5	300	WIN36-10	0.5	350		
<i>Goodenia armitiana</i>				0.1	20		
<i>Gyrostemon tepperi</i>	0.1	50					
<i>Hibiscus leptocladus</i>	0.1	15	WIN36-17	0.1	15		
<i>Indigofera ammobia</i>				0.1	30		
<i>Jacksonia aculeata</i>	0.1	50					
<i>Leptosema anomalum</i>				0.1	20		
<i>Newcastelia cladotricha</i>				0.1	30		
<i>Panicum australiense</i> var. <i>australiense</i>				0.1	10		
<i>Paraneurachne muelleri</i>	0.1	15					
<i>Polycarpaea corymbosa</i> var. <i>corymbosa</i>				0.1	10		
<i>Polymeria</i> sp. <i>Broome</i> (K.F. Kenneally 9759)				0.1	10	36-09	
<i>Ptilotus astrolasius</i>	0.1	20		0.1	20		
<i>Ptilotus polystachyus</i>				0.1	10		
<i>Seringia exastia</i>	0.1	15	WIN36-07	0.1	15	36-07	
<i>Solanum diversiflorum</i>				0.1	20		
<i>Sorghum plumosum</i> var. <i>plumosum</i>	1	50		1	50-150		
<i>Spermacoce occidentalis</i>				0.1	5		
<i>Tinospora smilacina</i>	0.1	300	WIN36-12	0.1	300		
<i>Trianthema pilosum</i>				0.1	10		
<i>Tribulopsis marliesiae</i>				0.1	20		
<i>Trigastrotheca molluginea</i>	0.1	15		0.1	15		
<i>Triodia epactia</i>	15	30		8	30-150		
<i>Triodia schinzii</i>	1	30		4	30-150		
Unknown sp. (? <i>Euploca cunninghamii</i>)				0.1	10		
<i>Zornia chaetophora</i>	0.1	20	WIN36-13	0.1	20		



North



South

Rio Tinto Copper - Winu Project**Described by** Phase 1: SCRM Phase 2: JW ND**Type** Quadrat 50x50m**Location** RAC**Central Coordinate** 264407 mE, 7794216 mN.**Habitat** Sand Plain (P2)**Soil** Sand**Rock Type** N/A

Vegetation **Phase 1:** Acacia ancistrocarpa tall open shrubland over A. drepanocarpa subsp. latifolia scattered shrubs over Indigofera monophylla scattered low shrubs over Eriachne obtusa scattered tussock grasses over Triodia schinzii, T. epactia hummock grassland

Phase 2: Acacia ancistrocarpa tall open shrubland over A. drepanocarpa subsp. latifolia scattered shrubs over Indigofera monophylla scattered low shrubs over Eriachne obtusa scattered tussock grasses over Triodia schinzii, T. epactia hummock grassland

Veg Condition Phase 1: Excellent Phase 2: Excellent**Fire Age** Phase 1: Very long unburnt Phase 2: Very long unburnt**Notes:** Phase 2: Heavily cattle grazed.**SPECIES LIST:**

Species	Phase 1			Phase 2			Comments
	Cover (%)	Height (cm)	Specimen	Cover (%)	Height (cm)	Specimen	
?Lysiandra eremica	0.1	50	WIN37-03				
Abildgaardia oxystachya				0.1	20		
Acacia ?melleodora				0.1			not collected
Acacia ancistrocarpa	5	400		8	300		
Acacia drepanocarpa subsp. latifolia	0.1	160		0.1	200		
Acacia drepanocarpa subsp. latifolia	2	350		5	300		
Acacia sericophylla	0.1	90	WIN37-04	0.1	90		
Amphipogon sericeus				0.1	50		
Aristida holathera var. holathera				0.1	40		
Arivela uncifera				0.1	30		
Boerhavia gardneri				0.1	5		
Bonamia alatisemina	0.1	20		0.1	20		
Bulbostylis barbata				0.1	10		
Calandrinia strophiolata				0.1	15		
Corchorus sidoides subsp. vermicularis	0.1	30		0.1	30		
Cucumis variabilis				0.1	20		
Eragrostis eriopoda	0.1	30		0.1	30		
Eriachne lanata	0.1	30		0.1	40		
Eriachne obtusa	0.5	30		0.1	50		
Euphorbia psilosperma				0.1	20		
Euploca vestita				0.1	10		
Evolvulus alsinoides				0.1	30		
Goodenia armitiana				0.1	40		
Gossypium australe (Burrup Peninsula Form)	0.1	80		0.1	40		
Hakea macrocarpa	0.1	160	WIN37-01	0.1	10		
Indigofera monophylla	0.5	40		0.1	50		

Species	Phase 1			Phase 2			Comments
	Cover (%)	Height (cm)	Specimen	Cover (%)	Height (cm)	Specimen	
Leptosema anomalum	0.1	20		0.5	40		
Panicum australiense var. australiense				0.1	10		
Paraneurachne muelleri	0.1	30					
Polycarpaea corymbosa var. corymbosa				0.1	20		
Polygala isingii				0.1	10		
Portulaca filifolia				0.1	40		
Ptilotus astrolasius	0.1	40		0.1	40		
Ptilotus polystachyus				0.1	10		
Ptilotus calostachyus				0.1	60		
Setaria surgens				0.1	50		
Sida arenicola				0.1	20		
Sida sp. Pindan (B.G. Thomson 3398)				0.1	60		
Solanum diversiflorum				0.1	30		
Sorghum plumosum var. plumosum	0.1	50		0.1	80		
Tephrosia sp. D Kimberley Flora (R.D. Royce 1848)				0.1	10		
Trianthema pilosum	0.1	20		0.1	20		
Tribulopsis marliesiae				0.1	40		
Trigastrotheca molluginea	0.1	20		0.1	20		
Triodia epactia	20	40		5	40-160		
Triodia schinzii	30	40		15	40-170		
Urochloa holosericea subsp. velutina				0.1	10		
Zornia chaetophora	0.1	15	WIN37-02	0.1	10		



North

Rio Tinto Copper - Winu Project**Described by** Phase 1: SCRM Phase 2: JP LS**Type** Quadrat 50x50m**Location** RAC**Central Coordinate** 260724 mE, 7800902 mN.**Habitat** Sand Plain (P10b)**Soil** Sand**Rock Type** N/A**Vegetation** **Phase 1:** Acacia anaticeps scattered shrubs over A. tumida var. kulparn, A. stellaticeps, Gompholobium simplicifolium low open shrubland over Triodia epactia open hummock grassland**Phase 2:** Acacia anaticeps scattered shrubs over A. tumida var. kulparn, A. stellaticeps, Gompholobium simplicifolium low open shrubland over Triodia epactia open hummock grassland**Veg Condition** **Phase 1:** Excellent **Phase 2:** Excellent**Fire Age** **Phase 1:** Burnt 1-2 years ago **Phase 2:** Burnt 4-5 years ago**SPECIES LIST:**

Species	Phase 1			Phase 2			Comments
	Cover (%)	Height (cm)	Specimen	Cover (%)	Height (cm)	Specimen	
Abildgaardia oxystachya				0.1	10		
Acacia anaticeps	0.5	180		0.5	300		
Acacia drepanocarpa subsp. latifolia	0.1	60		0.1	60	3802	
Acacia sericophylla	0.1	60		0.1	100		
Acacia stellaticeps	2	25		4	50		
Acacia tumida var. kulparn	0.5	90	WIN38-02	0.5	90		
Bonamia alatisemina	0.1	20	WIN38-01	0.1	20		
Calandrinia strophiolata				0.1	10		
Cassytha capillaris				0.1	30		
Corynothea gracilis	0.1	30		0.1	30		
Cyanostegia cyanocalyx	0.1	60		0.1	120		
Euphorbia psilosperma				0.1	10		
Gardenia pyriformis subsp. keartlandii	0.1	280		0.1	320		
Gompholobium simplicifolium	2	45		2	45		
Gyrostemon tepperi	0.1	40		0.1	120		
Halania solanacea var. solanacea				0.1	10		
Jacksonia aculeata	0.1	30		0.1	30		
Leptosema anomalum				0.1	20		
Newcastelia cladotricha				0.1	60		
Polygala isingii				0.1	10	38-01	
Ptilotus arthrolasius	0.1	30		0.1	30		
Ptilotus astrolasius	0.1	25		0.1	25		
Scaevola parvifolia subsp. parvifolia	0.1	20		0.1	20		
Solanum diversiflorum				0.1	30		
Spermacoce occidentalis				0.1	5	38-03	
Trigastrotheca molluginea	0.1	20		0.1	20		
Triodia epactia	12	40		12	40		
Triodia schinzii				10	30-150		



North



South

Rio Tinto Copper - Winu Project**Described by** Phase 1: SCRM Phase 2: JP LS**Type** Quadrat 50x50m**Location** RAC**Central Coordinate** 339672 mE, 7716709 mN.**Habitat** Sand Plain (P1)**Soil** Sand**Rock Type** N/A

Vegetation **Phase 1:** Owenia reticulata, Erythrophleum chlorostachys scattered low trees over Acacia platycarpa open shrubland over Dicrastylis doranii, (A. stellaticeps) low open shrubland over Triodia schinzii open hummock grassland

Phase 2: Owenia reticulata, Erythrophleum chlorostachys scattered low trees over Acacia platycarpa open shrubland over Dicrastylis doranii, (A. stellaticeps) low open shrubland over Triodia schinzii open hummock grassland

Veg Condition **Phase 1:** Excellent **Phase 2:** Excellent**Fire Age** **Phase 1:** Burnt 1-2 years ago. Small strip unburnt **Phase 2:** Burnt 5-6 years ago**SPECIES LIST:**

Species	Phase 1			Phase 2			Comments
	Cover (%)	Height (cm)	Specimen	Cover (%)	Height (cm)	Specimen	
Acacia colei var. colei				0.1	50	39-06	
Acacia monticola				0.1	100		
Acacia platycarpa 'Desert Form Pruinosae'	3	120	WIN39-03	5	160		
Acacia sericophylla	0.1	200	WIN39-04	0.1	200		
Acacia stellaticeps	1	40		2	100		
Acacia tumida var. pilbarensis	0.1	60		0.1	160		
Amphipogon sericeus				0.1	30		
Aristida holathera var. holathera	0.1	15	WIN39-06	0.1	30		
Bonamia alatisemina	0.1	10	WIN39-02	0.1	10		
Cassytha capillaris				0.1	20	39-03	
Dicrastylis doranii	6	40	WIN39-01	6	40		
Eragrostis eriopoda				0.1	10	39-02	
Eriachne helmsii	0.1	20	WIN39-07	0.1	40		
Eriachne lanata				0.1	70	39-04	
Erythrophleum chlorostachys	1	220		1	300		
Gompholobium simplicifolium	0.1	50		0.1	50		
Goodenia hartiana	0.5	20		0.5	20		
Goodenia triodiophila	0.1	15		0.1	15		
Grevillea wickhamii subsp. hispidula	0.1	40		0.1	300		
Gyrostemon tepperi	0.1	40					
Halgania solanacea var. solanacea	0.1	20		1	20		
Hibiscus leptocladus				0.1	50	39-05	
Indigofera boviparda subsp. eremaea	0.1	30		0.1	30		
Jacksonia aculeata	0.1	40		2	40		
Owenia reticulata	1	500		1	500		
Panicum australiense var. australiense	0.1	20	WIN39-05	0.1	20		
Ptilotus arthrolasius	0.1	20		0.1	20		
Scaevola parvifolia subsp. parvifolia				0.1	30		

Species	Phase 1			Phase 2			Comments
	Cover (%)	Height (cm)	Specimen	Cover (%)	Height (cm)	Specimen	
Sida sp. Pindan (B.G. Thomson 3398)				0.1	60	39-01	
Sorghum plumosum var. plumosum	0.1	60		0.1	120		
Triodia schinzii	12	30		15	30-150		



North west



South east

Rio Tinto Copper - Winu Project**Described by** Phase 1: SCRM Phase 2: JP LS**Type** Quadrat 50x50m**Location** RAC**Central Coordinate** 336059 mE, 7719512 mN.**Habitat** Sand Plain (P8)**Soil** Sand**Rock Type** N/A

Vegetation **Phase 1:** Corymbia zygophylla scattered low trees over Acacia eriopoda tall shrubland over Dicrastylis doranii and Gompholobium simplicifolium low open shrubland over Triodia schinzii hummock grassland
Phase 2: Corymbia zygophylla scattered low trees over Acacia eriopoda tall shrubland over Dicrastylis doranii and Gompholobium simplicifolium low open shrubland over Triodia schinzii hummock grassland

Veg Condition **Phase 1:** Excellent **Phase 2:** Excellent**Fire Age** **Phase 1:** No sign of recent fire **Phase 2:** No sign of recent fire**SPECIES LIST:**

Species	Phase 1			Phase 2			Comments
	Cover (%)	Height (cm)	Specimen	Cover (%)	Height (cm)	Specimen	
?Achyranthes aspera				0.1	5	40-03	
Acacia eriopoda	15	250	WIN40-01	15	300		
Acacia melleodora	0.1	200	WIN40-03				
Acacia sericophylla	0.1	280		0.1	350		
Acacia tumida var. kulparn	0.1	100		0.1	150		
Aristida holathera var. holathera	0.1	20		0.1	40		
Bonamia alatisemina				0.1	29		
Calytrix carinata	0.1	50		0.1	120		
Cassytha capillaris	0.1	30		0.1	30		
Corchorus sidoides subsp. sidoides				0.1	39		
Corymbia zygophylla	1	220	WIN40-02	1	220		
Dicrastylis doranii	3	50		3	50		
Dodonaea coriacea	0.1	120		0.1	120		
Eriachne lanata				0.1	50		
Erythrophleum chlorostachys	0.1	90		0.1	90		
Evolvulus alsinoides				0.1	30		n=8
Gompholobium simplicifolium	3	60		3	60	40-01	
Goodenia hartiana							n=10 (out)
Grevillea wickhamii subsp. macrodonta	0.1	250		0.1	350		
Halgania solanacea var. solanacea				0.1	29		
Indigofera boviparda subsp. eremaea	0.1	40		0.1	40		
Jacksonia aculeata	0.1	60		0.1	60		
Ptilotus arthrolasius	0.1	50					
Setaria surgens				0.1	39	40-02	
Sorghum plumosum var. plumosum				0.1	120		
Tribulopsis marliesiae				0.1	20		
Trigastrotheca molluginea				0.1	20		
Triodia schinzii	35	40		35	40-150		



North



South

Rio Tinto Copper - Winu Project**Site** WIN041**Described by** Phase 1: SCRM**Date** Phase 1: 23-Sep-19 Phase 2: 15-Jun-22**Type** Quadrat 50x50m**Location** MIA**Central Coordinate** 356118 mE, 7710673 mN.**Habitat** Sand Plain (C4)**Soil** Sand**Rock Type** N/A**Vegetation** Phase 1: Acacia ancistrocarpa, A. orthocarpa tall shrubland over Triodia epactia hummock grassland.

Phase 2: Acacia ancistrocarpa, A. orthocarpa tall shrubland over Triodia epactia hummock grassland.

Veg Condition Phase 1: Excellent Phase 2: Excellent**Fire Age** Phase 1: No sign of recent fire Phase 2: No sign of recent fire**SPECIES LIST:**

Species	Phase 1			Phase 2			Comments
	Cover (%)	Height (cm)	Specimen	Cover (%)	Height (cm)	Specimen	
Acacia ancistrocarpa	6	220		6	220		
Acacia orthocarpa	5	200	WIN40-01	5	200	4103	
Amphipogon sericeus	0.1	20		0.1	40		
Aristida holathera var. holathera	0.1	20		0.1	20		
Bulbostylis barbata				0.1	10	4101	
Cassytha capillaris	0.1	20		0.1	20		
Dampiera candidans	0.1	30		0.1	30		
Dodonaea coriacea				0.1	50		
Eragrostis eriopoda				0.1	50		
Eriachne lanata	0.1	20		0.1	20		
Goodenia armitiana	0.1	20		0.1	20		
Goodenia hartiana	0.1	30		0.1	30		
Grevillea wickhamii subsp. hispidula	0.1	50		0.1	50		
Halgania solanacea var. solanacea	0.1	20		0.1	20		
Leptosema anomalum				0.1	30	4104	
Ptilotus astrolasius	0.1	30		0.1	30		
Ptilotus calostachyus	0.1	50		0.1	50		
Senna notabilis	0.1	30		0.1	30		
Sida arenicola	0.1	30		0.1	30		
Solanum diversiflorum				0.1	15	4102	
Tephrosia arenicola	0.1	20		0.1	20		
Trigastrotheca molluginea	0.1	10		0.1	10		
Triodia epactia	31	40		31	40		



Northwest

Rio Tinto Copper - Winu Project

Described by Phase 1: RM
Type Quadrat 50x50m
Location WRIB
Central Coordinate 369902 mE, 7714153 mN.
Habitat Swale (D1)
Soil Sand
Rock Type N/A
Vegetation

Site WIN042**Date** Phase 1: 15-Jul-20

Phase 1: Owenia reticulata low open woodland over Grevillea stenobotrya, (Acacia tumida var. kulparn) tall open shrubland over Scaevola parvifolia subsp. parvifolia, Dampiera cinerea, Gompholobium simplicifolium, (Dicrastylis doranii, Petalostylis cassioides) low open shrubland over Triodia schinzii hummock grassland over Eriachne obtusa, Eriachne mucronata very open tussock grassland.

Phase 2:**Veg Condition****Phase 1:** Excellent**Fire Age****Phase 1:** No sign of recent fire.**SPECIES LIST:**

Species	Phase 1			Comments
	Cover (%)	Height (cm)	Specimen	
Acacia anaticeps	0.1	200		
Acacia sabulosa	0.1	170		
Acacia tumida var. kulparn	3	180		
Aristida holathera var. holathera	0.1	50		
Calytrix carinata	0.1	70		
Cassutha capillaris	0.1	20		
Crotalaria cunninghamii subsp. cunninghamii	0.1	160	WIN42-09	
Cyanostegia cyanocalyx	0.1	70		
Dampiera cinerea	5	70	WIN42-01	
Dicrastylis doranii	0.5	50	WIN42-04	
Eriachne aristidea	0.1	20		
Eriachne mucronata	1	40		
Eriachne obtusa	1.5	50	WIN42-02	
Euphorbia myrtoidea	0.1	15	WIN42-11	
Gompholobium simplicifolium	4	70		
Grevillea eriostachya	0.1	90		
Grevillea stenobotrya	2.5	200	WIN42-10	
Grevillea wickhamii subsp. hispidula	0.1	300		
Gyrostemon tepperi	0.1	80		
Indigofera ammobia	0.1	50		
Jacksonia aculeata	0.1	50		
Newcastelia cladotricha	0.1	30	WIN42-12	
Owenia reticulata	3	550		
Paranotis pterospora	0.1	10	WIN42-05	
Petalostylis cassioides	0.5	60	WIN42-03	
Scaevola parvifolia subsp. parvifolia	8	30		
Sida sp. Western sand dunes (P.K. Latz 11980)	0.1	160	WIN42-08	
Spermacoce occidentalis	0.1	30		

Species	Phase 1			Comments
	Cover (%)	Height (cm)	Specimen	
<i>Thinicola incana</i>	0.1	140	WIN42-06	
<i>Trianthema pilosum</i>	0.1	8		
<i>Triodia schinzii</i>	40	40		



Northwest

Rio Tinto Copper - Winu Project

Described by Phase 1: RM
Type Quadrat 50x50m
Location WRIB
Central Coordinate 369902 mE, 7714153 mN.
Habitat Plain between dunes (P1)
Soil Sand
Rock Type N/A
Vegetation

Site WIN043**Date** Phase 1: 15-Jul-20

Phase 1: Acacia tumida var. kulparn tall open shrubland over Grevillea wickhamii subsp. hispidula, (Androcalva loxophylla, Erythrophleum chlorostachys) open shrubland over Bonamia erecta, (Gompholobium simplicifolium) low open shrubland over Triodia schinzii open hummock grassland.

Phase 2:**Veg Condition****Phase 1:** Excellent**Fire Age****Phase 1:** No sign of recent fire.**SPECIES LIST:**

Species	Phase 1			Comments
	Cover (%)	Height (cm)	Specimen	
Acacia ancistrocarpa	0.1	230		
Acacia tumida var. kulparn	2.5	300		
Amphipogon sericeus	0.1	40		
Androcalva loxophylla	1	130	WIN43-01	
Aristida holathera var. holathera	0.1	40		
Bonamia erecta	4	30		
Calytrix carinata	0.1	50		
Cassytha capillaris	0.1	20		
Chrysopogon fallax	0.1	150		
Codonocarpus cotinifolius	0.1	170		
Cyanostegia cyanocalyx	0.1	60		
Dampiera cinerea	0.1	50		
Dicrastylis cordifolia	0.1	50		
Eragrostis eriopoda	0.1	25	WIN43-02	
Eriachne lanata	0.1	40		
Erythrophleum chlorostachys	0.5	170		
Gompholobium simplicifolium	1	50		
Goodenia hartiana	0.1	50		
Grevillea eriostachya	0.1	150		
Grevillea wickhamii subsp. hispidula	5	170		
Gyrostemon tepperi	0.1	180		
Halgania solanacea var. solanacea	0.1	30		
Jacksonia aculeata	0.1	50		
Petalostylis cassioides	0.1	50		
Ptilotus arthrolasius	0.1	40		
Scaevola parvifolia subsp. parvifolia	0.1	30		
Triodia schinzii	20	60		



Northwest

Rio Tinto Copper - Winu Project

Described by Phase 1: RM Phase 2:
Type Quadrat 50x50m
Location WRIB
Central Coordinate 364738 mE, 7713413 mN
Habitat Plain (P2)
Soil Sand
Rock Type N/A
Vegetation

Site WIN044**Date** Phase 1: 16-Jul-20 Phase 2:

Phase 1: Acacia ancistrocarpa, (Acacia orthocarpa) tall open shrubland over Acacia monticola open shrubland over Seringia exastia low open shrubland over Triodia schinzii hummock grassland over Eriachne lanata, (Aristida inaequiglumis) very open tussock grassland.

Phase 2:**Veg Condition** Phase 1: Excellent Phase 2: Excellent**Fire Age** Phase 1: No sign of recent fire Phase 2:**SPECIES LIST:**

Species	Phase 1			Comments
	Cover (%)	Height (cm)	Specimen	
Acacia ancistrocarpa	8	350		
Acacia monticola	2.5	280		
Acacia orthocarpa	0.5	320		
Aristida holathera var. holathera	0.1	30		
Aristida inaequiglumis	1	70	WIN44-02	
Cassytha capillaris	0.1	20		
Codonocarpus cotinifolius	0.1	100		
Dampiera cinerea	0.1	50		
Dicrastylis cordifolia	0.1	40		
Dodonaea coriacea	0.1	70		
Eriachne lanata	3	50		
Eriachne mucronata (typical form)	0.1	30	WIN44-03	
Eulalia aurea	0.1	70	WIN44-09	
Goodenia armitiana	0.1	30	WIN44-05	
Grevillea wickhamii subsp. hispidula	0.1	90		
Hibiscus leptocladus	0.1	80	REL09-03=	
Indigofera monophylla	0.1	50		
Leptosema anomalum	0.1	30		
Panicum australiense var. australiense	0.1	20		
Paraneurachne muelleri	0.1	30		
Pluchea tetranthera	0.1	30	WIN44-08	
Ptilotus calostachyus	0.1	50		
Ptilotus fusiformis	0.1	30	WIN44-04	
Seringia exastia	3	70	WIN44-01, WIN44-07	
Sida arenicola	0.1	50	WIN44-06	
Trigastrotheca molluginea	0.1	10		
Triodia schinzii	45	60		



Southwest

Rio Tinto Copper - Winu Project**Site** WIN045**Described by** Phase 1: RM Phase 2: JP LS**Date** Phase 1: 16-Jul-20 Phase 2: 31-Mar-23**Type** Quadrat 50x50m**Location** RAC**Central Coordinate** 333004 mE, 7719587 mN**Habitat** Plain (C4)**Soil** Sand**Rock Type** N/A

Vegetation Phase 1: Acacia ancistrocarpa tall shrubland over Triodia schinzii, (Triodia epactia) hummock grassland over Eulalia aurea very open tussock grassland.
 Phase 2: Acacia ancistrocarpa tall shrubland over Triodia schinzii, (Triodia epactia) hummock grassland over Eulalia aurea very open tussock grassland.

Veg Condition Phase 1: Excellent Phase 2: Excellent**Fire Age** Phase 1: No sign of recent fire Phase 2: No sign of recent fire**SPECIES LIST:**

Species	Phase 1			Phase 2			Comments
	Cover (%)	Height (cm)	Specimen	Cover (%)	Height (cm)	Specimen	
Acacia ancistrocarpa	15	350		15	450		
Acacia colei var. colei	0.1	90		0.1	90		
Acacia monticola	0.1	280					
Acacia sericophylla	0.1	350		0.1	400		
Aristida holathera var. holathera	0.1	30		0.1	30		
Bonamia alatisemina				0.1	20		
Bulbostylis barbata				0.1	5		
Calytrix carinata	0.1	30		0.1	70		
Cassylia capillaris	0.1	30		0.1	30		
Corchorus sidoides subsp. sidoides	0.1	90		0.1	90		
Dodonaea coriacea	0.1	70		0.1	70		
Eragrostis eriopoda				0.1	20	45-01	
Eriachne lanata	0.1	50		0.1	50		
Eriachne mucronata (typical form)	0.1	30	WIN44-03=	0.1	50		
Eulalia aurea	0.5	70	WIN44-09=	0.5	100		
Evolvulus alsinoides				0.1	30		
Goodenia armitiana	0.1	30	WIN44-05=	0.1	30		
Grevillea wickhamii subsp. hispidula	0.1	90		0.1	90		
Indigofera boviparda subsp. boviparda	0.1	50		0.1	50		
Jacksonia aculeata	0.1	90		0.1	90		
Leptosema anomalum	0.1	30		0.1	30		
Panicum australiense var. australiense				0.1	5		
Paraneurachne muelleri	0.1	30					
Pluchea ferdinandi-muelleri	0.1	30	WIN45-02	0.1	30	45-04	
Pluchea tetranthera	0.1	30	WIN44-08=	0.1	30		
Pluchea tetranthera	0.1	60	WIN45-01	0.1	60		
Ptilotus astrolasius	0.1	30		0.1	30		
Ptilotus calostachyus				0.1	80		
Sida arenicola				0.1	5	45-02	
Solanum diversiflorum				0.1	30		
Sorghum plumosum var. plumosum	0.1	90		0.1	150		

Species	Phase 1			Phase 2			Comments
	Cover (%)	Height (cm)	Specimen	Cover (%)	Height (cm)	Specimen	
Trigastrotheca molluginea	0.1	10		0.1	10		
Triodia epactia	1	40		4	40-150		
Triodia schinzii	40	60		40	60-150		



Northwest

Rio Tinto Copper - Winu Project**Described by** Phase 1: RM Phase 2: JP LS**Type** Quadrat 50x50m**Location** RAC**Central Coordinate** 336075 mE, 7753596 mN**Habitat** Swale (D3)**Soil** Sand**Rock Type** N/A**Vegetation** **Phase 1:** Owenia reticulata scattered low trees over Acacia anaticeps scattered tall shrubs over Acacia tumida var. kulparn tall shrubland over Gompholobium simplicifolium, Dampiera cinerea, (Cyanostegia cyanocalyx, Erythrophleum chlorostachys) low open shrubland over Triodia schinzii open hummock grassland over Eriachne obtusa scattered tussock grasses.**Phase 2:** Owenia reticulata scattered low trees over Acacia anaticeps scattered tall shrubs over Acacia tumida var. kulparn tall shrubland over Gompholobium simplicifolium, Dampiera cinerea, (Cyanostegia cyanocalyx, Erythrophleum chlorostachys) low open shrubland over Triodia schinzii open hummock grassland over Eriachne obtusa scattered tussock grasses.**Veg Condition** **Phase 1:** Excellent **Phase 2:** Excellent**Fire Age** **Phase 1:** No sign of recent fire **Phase 2:** No sign of recent fire**SPECIES LIST:**

Species	Phase 1			Phase 2			Comments
	Cover (%)	Height (cm)	Specimen	Cover (%)	Height (cm)	Specimen	
Acacia anaticeps	0.5	300		0.5	300		
Acacia eriopoda	0.1	300	WIN46-03	0.1	350		
Acacia stellaticeps	0.1	50		0.1	50		
Acacia tumida var. kulparn	14	180		14	300		
Aristida holathera var. holathera	0.1	50		0.1	50		
Arivela ?microphylla				0.1	20	46-02	
Calytrix carinata	0.1	50		0.1	180		
Cassytha capillaris				0.1	40		
Corynotheca gracilis	0.1	40	WIN46-02	0.1	40		
Cyanostegia cyanocalyx	1	70		1	70		
Dampiera cinerea	3	70	WIN46-01	3	70		
Eragrostis eriopoda				0.1	30	46-01	
Eriachne aristidea	0.1	20		0.1	20		
Eriachne obtusa	1.5	50	WIN42-02=	1.5	50		
Erythrophleum chlorostachys	0.5	30		0.5	100		
Gardenia pyrifolia subsp. keartlandii	0.1	90		0.1	150		
Gompholobium simplicifolium	5	70		4	70		
Grevillea eriostachya	0.1	90		0.1	120	46-01	
Grevillea stenobotrya				0.1	250	46-03	
Grevillea wickhamii subsp. hispidula	0.1	280		0.1	280		
Gyrostemon tepperi	0.1	180		0.1	40		
Owenia reticulata	0.5	550		0.5	600		
Ptilotus arthrolasius	0.1	30		0.1	30		
Scaevola parvifolia subsp. parvifolia	0.1	30		0.1	30		
Sida sp. Western sand dunes (P.K. Latz 11980)	0.1	160	WIN42-08=	0.1	160		

Species	Phase 1			Phase 2			Comments
	Cover (%)	Height (cm)	Specimen	Cover (%)	Height (cm)	Specimen	
Spermacoe occidentalis	0.1	30		0.1	30		
Tinospora smilacina	0.1	40		0.1	40		
Trianthema pilosum	0.1	15		0.1	15		
Trigastrotheca molluginea				0.1	10		
Triodia schinzii	12	40		12	40-150		



Northwest

Rio Tinto Copper - Winu Project**Described by** Phase 1: RM Phase 2: JW ND**Type** Quadrat 50x50m**Location** RAC**Central Coordinate** 330352 mE, 7766951 mN**Habitat** Plain (P9)**Soil** Sand**Rock Type** N/A**Vegetation** **Phase 1:** Acacia ancistrocarpa (Erythrophleum chlorostachys, Acacia monticola) tall open shrubland over Triodia epactia open hummock grassland.**Phase 2:** Acacia ancistrocarpa (Erythrophleum chlorostachys, Acacia monticola) tall open shrubland over Triodia epactia open hummock grassland.**Veg Condition** **Phase 1:** Excellent **Phase 2:** Excellent**Fire Age** **Phase 1:** Burnt 3-5 years ago **Phase 2:** Burnt 5-8 years ago**SPECIES LIST:**

Species	Phase 1			Phase 2			Comments
	Cover (%)	Height (cm)	Specimen	Cover (%)	Height (cm)	Specimen	
Acacia ancistrocarpa	6	280		4	350		
Acacia monticola	0.5	280		0.5	300		
Acacia sabulosa				0.1	50		
Acacia sericophylla				0.1	160		
Aristida holathera var. holathera	0.1	30		0.1	40		
Bonamia alatisemina	0.1	30	WIN47-02	0.1	30		
Bulbostylis barbata				0.1	10	JW	
Cassytha capillaris	0.1	60		0.1	60		
Dodonaea coriacea	0.1	100		0.1	120		
Eriachne lanata	0.1	30		0.1	40		
Erythrophleum chlorostachys	1	350		1	350		
Gardenia pyriformis subsp. keartlandii	0.1	210		0.1	250		
Goodenia armitiana	0.1	20	WIN47-01	0.1	20		
Grevillea refracta subsp. refracta	0.1	280		0.1	400		
Gyrostemon tepperi	0.1	120		0.1 (dead)	180		
Hibiscus leptocladus	0.1	50	REL09-03=	0.1	70		
Lysiandra eremica	0.1	30	RMOP03=				
Ptilotus astrolasius	0.1	240		0.1	40		
Ptilotus calostachyus	0.1	50		0.1	60		
Sida arenicola	0.1	150		0.1	70		
Sida arenicola				0.1	50		
Solanum diversiflorum	0.1	50	WIN47-04	0.1	10		
Sorghum plumosum var. plumosum	0.1	190		0.1	180		
Tephrosia sp. D Kimberley Flora (R.D. Royce 1848)				0.1	20		
Trianthema pilosum	0.1	10					
Trigastrotheca molluginea	0.1	30		0.1	20		
Triodia epactia	13	30		25	40-60		
Triodia schinzii				0.1	20-160		
Zornia chaetophora	0.1	30	WIN47-03				



Northwest

Rio Tinto Copper - Winu Project**Described by** Phase 1: RM Phase 2: JP LS**Type** Quadrat 50x50m**Location** RAC**Central Coordinate** 326675 mE, 7769427 mN**Habitat** Plain (P8)**Soil** Sand**Rock Type** N/A**Vegetation** **Phase 1:** Acacia eriopoda tall shrubland over Newcastleia cladotricha shrubland over Triodia epactia very open tussock grassland over Sorghum plumosum var. plumosum scattered tussock grassland.**Phase 2:** Acacia eriopoda tall shrubland over Newcastleia cladotricha shrubland over Triodia epactia very open tussock grassland over Sorghum plumosum var. plumosum scattered tussock grassland.**Veg Condition** **Phase 1:** Excellent **Phase 2:** Excellent**Fire Age** **Phase 1:** Not recorded **Phase 2:** Not recorded**SPECIES LIST:**

Species	Phase 1			Phase 2			Comments
	Cover (%)	Height (cm)	Specimen	Cover (%)	Height (cm)	Specimen	
Acacia eriopoda	23	350	WIN48-01	23	350		
Acacia monticola				0.1	120		
Acacia sp. Nalgi (N.T. Burbidge 1317)				0.1	280	48-01	
Arivela uncifera	0.1	30		0.1	30		
Bonamia alatisemina	0.1	20	WIN47-02=	0.1	20		
Cassytha capillaris	0.1	30		0.1	30		
Corchorus sidoides subsp. sidoides				0.1	30		
Eragrostis eriopoda				0.1	20		
Goodenia armitiana	0.1	30	WIN47-01=	0.1	30		
Grevillea refracta subsp. refracta	0.1	10		0.1	150		
Newcastleia cladotricha	3	70	WIN48-02	0.1	70		
Ptilotus arthrolasius	0.1	30		0.1	30		
Ptilotus astrolasius	0.1	50		0.1	50		
Ptilotus polystachyus	0.1	30	WIN48-03	0.1	30		
Sida arenicola	0.1	70		0.1	130		
Sorghum plumosum var. plumosum	1	90		1	90		
Tephrosia sp. D Kimberley Flora (R.D. Royce 1848)	0.1	40	WIN48-04	0.1	40		
Trianthema triquetrum	0.1	20		0.1	20		
Trigastrotheca molluginea	0.1	20		0.1	20		
Triodia epactia	5	30		10	30-150		



Rio Tinto Copper - Winu Project**Described by** Phase 1: RM Phase 2: JW ND**Type** Quadrat 50x50m**Location** RAC**Central Coordinate** 332381 mE, 7770029 mN**Habitat** Plain (P10a)**Soil** Sand**Rock Type** N/A**Vegetation** **Phase 1:** Corymbia zygophylla scattered low trees over Acacia tumida var. kulparn (Acacia monticola) tall open shrubland over Triodia epactia hummock grassland.**Phase 2:** Corymbia zygophylla scattered low trees over Acacia tumida var. kulparn (Acacia monticola) tall open shrubland over Triodia epactia hummock grassland.**Veg Condition** **Phase 1:** Excellent **Phase 2:** Excellent**Fire Age** **Phase 1:** Burnt 3-5 years ago **Phase 2:** Burnt 6-8 years ago**SPECIES LIST:**

Species	Phase 1			Phase 2			Comments
	Cover (%)	Height (cm)	Specimen	Cover (%)	Height (cm)	Specimen	
Abutilon leucopetalum	0.1	20	WIN49-02	0.1	20		
Acacia ancistrocarpa	0.1	180		0.1	180		
Acacia monticola	1	220		2	300		
Acacia sericophylla	0.1	300		0.1	300		
Acacia tumida var. kulparn	5	230		5	230		
Aristida holathera var. holathera	0.1	30		0.1	30		
Arivela uncifera	0.1	30		0.1	30		
Boerhavia gardneri				0.1	30		
Bulbostylis barbata	0.1	10		0.1	10		
Cassytha capillaris	0.1	100		0.1	50		
Corchorus sidoides subsp. sidoides	0.1	25		0.1	25		
Corymbia zygophylla	2	180		2	180		
Digitaria brownii	0.1	60	WIN49-03	0.1	60		
Eragrostis eriopoda	0.1	30					
Eriachne ciliata	0.1	20		0.1	20		
Eriachne pulchella subsp. dominii				0.1	10		
Euphorbia psilosperma				0.1	10		
Euploca foliata				0.1	15		
Euploca vestita	0.1	40	WIN49-01	0.1	40		
Evolvulus alsinoides var. villosicalyx	0.1	30		0.1	30		
Goodenia armitiana	0.1	30	WIN47-01=	0.1	30		
Grevillea refracta subsp. refracta	0.1	10		0.1	70		
Grevillea wickhamii subsp. hispidula	0.1	140		0.1	250		
Leptosema anomalum	0.1	30					
Panicum australiense var. australiense	0.1	5		0.1	5		
Polycarpaea corymbosa var. corymbosa				0.1	20		
Ptilotus calostachyus				0.1	60		
Ptilotus polystachyus				0.1	10		

Species	Phase 1			Phase 2			Comments
	Cover (%)	Height (cm)	Specimen	Cover (%)	Height (cm)	Specimen	
<i>Senna notabilis</i>	0.1	5		0.1	5		
<i>Setaria surgens</i>				0.1	40		
<i>Sida arenicola</i>	0.1	70		0.1	70		
<i>Sorghum plumosum</i> var. <i>plumosum</i>	0.1	50		0.1	180		
<i>Tephrosia</i> sp. D Kimberley Flora (R.D. Royce 1848)	0.1	40	WIN48-04=	0.1	40		
<i>Trianthema pilosum</i>	0.1	10		0.1	10		
<i>Tribulopsis marliesiae</i>	0.1	15		0.1	15		
<i>Trigastrotheca molluginea</i>	0.1	5		0.1	5		
<i>Triodia epactia</i>	45	40		45	40		

Rio Tinto Copper - Winu Project**Described by** Phase 1: RM Phase 2: JW ND**Type** Quadrat 50x50m**Location** RAC**Central Coordinate** 329338 mE, 7771752 mN**Habitat** Plain (P11)**Soil** Sand**Rock Type** N/A**Vegetation** **Phase 1:** Corymbia zygophylla scattered low trees over Triodia epactia open hummock grassland over Sorghum plumosum var. plumosum very open tussock grassland.**Phase 2:** Corymbia zygophylla scattered low trees over Triodia epactia open hummock grassland over Sorghum plumosum var. plumosum very open tussock grassland.**Veg Condition** **Phase 1:** Excellent **Phase 2:** Excellent**Fire Age** **Phase 1:** Burnt 1-2 years ago **Phase 2:** Burnt 4-6 years ago**SPECIES LIST:**

Species	Phase 1			Phase 2			Comments
	Cover (%)	Height (cm)	Specimen	Cover (%)	Height (cm)	Specimen	
Acacia ancistrocarpa	0.1	80		0.1	200		
Acacia monticola	0.1	20		2	200		
Aristida holathera var. holathera	0.1	30					
Arivela uncifera	0.1	30		0.1	30		
Arivela viscosa				0.1	40		
Boerhavia gardneri				0.1	10		
Bonamia alatisemina	0.1	70	WIN47-02=, WIN50-01	0.1	50		
Bulbostylis barbata				0.1	10		
Cassytha capillaris				0.1	30		
Corymbia zygophylla	0.25	230		0.1	250		
Eragrostis eriopoda				0.1	40		
Eriachne ciliata	0.1	15		0.1	20		
Euphorbia psilosperma	0.1	15	WIN50-02	0.1	10		
Goodenia armitiana				0.1	50		
Grevillea refracta subsp. refracta	0.1	90		0.1	400		
Grevillea wickhamii				0.1	120		
Hibiscus leptocladus	0.1	20	REL09-03=	0.1	50		
Lysiantha eremica				0.1	40		
Panicum australiense var. australiense	0.1	10		0.1	10		
Polycarpaea corymbosa var. corymbosa				0.1	10		
Ptilotus arthrolasius	0.1	20					
Ptilotus astrolasius				0.1	10		
Ptilotus calostachyus	0.1	60		0.1	60		
Senna notabilis	0.1	30		0.1	10		
Sida arenicola	0.1	20		0.1	130		
Sorghum plumosum var. plumosum	5	90		4	160		
Tinospora smilacina	0.1	70		0.1	100		

Species	Phase 1			Phase 2			Comments
	Cover (%)	Height (cm)	Specimen	Cover (%)	Height (cm)	Specimen	
<i>Trianthema pilosum</i>	0.1	10		0.1	10		
<i>Tribulopsis marliesiae</i>				0.1	10		
<i>Trigastrotheca molluginea</i>	0.1	15		0.1	10		
<i>Triodia epactia</i>	25	40		35	40-160		

Rio Tinto Copper - Winu Project**Described by** Phase 1: RM Phase 2: JP LS**Type** Quadrat 50x50m**Location** RAC**Central Coordinate** 328839 mE, 7720105 mN**Habitat** Plain (P8)**Soil** Sand**Rock Type** N/A**Vegetation** **Phase 1:** Acacia sericophylla, Hakea lorea subsp. lorea tall open shrubland over Pluchea tetranthera scattered low shrubs over Triodia schinzii very open hummock grassland over Eulalia aurea, Eriachne mucronata (typical form) very open tussock grassland.**Phase 2:** Acacia sericophylla, Hakea lorea subsp. lorea tall open shrubland over Pluchea tetranthera scattered low shrubs over Triodia schinzii very open hummock grassland over Eulalia aurea, Eriachne mucronata (typical form) very open tussock grassland.**Veg Condition** **Phase 1:** Excellent **Phase 2:** Excellent**Fire Age** **Phase 1:** Burnt 1-2 years ago. **Phase 2:** Burnt 4-6 years ago**SPECIES LIST:**

Species	Phase 1			Phase 2			Comments
	Cover (%)	Height (cm)	Specimen	Cover (%)	Height (cm)	Specimen	
Acacia ancistrocarpa	0.1	20		0.1	120		
Acacia colei var. colei				0.1	120	51-07	
Acacia sericophylla	1.5	230		1.5	230		
Aristida holathera var. holathera	0.1	30		0.1	30		
Arivela uncifera	0.1	40					
Bonamia alatisemina	0.1	10	WIN47-02=	0.1	10		
Bulbostylis barbata				0.1	1	51-04	
Cassylia capillaris				0.1	30		
Cullen pustulatum	0.1	170	WIN51-01	0.1	170		
Eragrostis eriopoda	0.1	40		0.1	40	51-06	
Eriachne lanata	0.1	50					
Eriachne mucronata	0.1	40					
Eriachne mucronata (typical form)	0.5	40	WIN51-03	0.5	40		
Eriachne obtusa				0.1	80	51-08	
Eulalia aurea	2	60	WIN51-02	2	100		
Euphorbia psilosperma				0.1	30	51-01	
Evolvulus alsinoides var. decumbens				0.1	10	51-13	
Fimbristylis dichotoma	0.1	20	WIN51-05	0.1	30	51-05	
Goodenia armitiana	0.1	30	WIN47-01=	0.1	30		
Gossypium australe	0.1	40		0.5	100	51-09	
Grevillea wickhamii subsp. hispidula	0.1	50		0.1	100		
Hakea loreus subsp. loreus	1	200	WIN51-06	1	250		
Indigofera monophylla	0.1	60		0.1	60		
Panicum australiense var. australiense	0.1	10		0.1	10		
Pluchea tetranthera	0.5	50	WIN51-04	0.5	50	51-02	
Ptilotus astrolasius	0.1	35		0.1	35		
Ptilotus calostachyus				0.1	100		
Santalum lanceolatum	0.1	40		0.1	140		

Species	Phase 1			Phase 2			Comments
	Cover (%)	Height (cm)	Specimen	Cover (%)	Height (cm)	Specimen	
<i>Senna notabilis</i>	0.1	35					
<i>Sida arenicola</i>				0.1	20	51-10	
<i>Synaptantha tillaeacea</i> var. <i>tillaeacea</i>	0.1	30	WIN51-08				
<i>Tephrosia simplicifolia</i>	0.1	20	WIN51-07	0.1	20		
<i>Tinospora smilacina</i>	0.1	40		0.1	40		
<i>Trigastrotheca molluginea</i>	0.1	20		0.1	20		
<i>Triodia epactia</i>				1	120	51-03	
<i>Triodia schinzii</i>	3	20		3	20-150		

Rio Tinto Copper - Winu Project**Site** WIN052**Described by** JP LS**Date** 01/04/2023 **Type** Q

50x50

Season E**Uniformity** Excellent**Location** Wallal Borefield**MGA Zone** 51 321377 mE 7777140 mN**Habitat** Pindan Plain (P9)**Soil** Deep red sand**Rock Type** Unknown, subcropping**Vegetation** Occasional *Grevillea pyramidalis* 4m <1% over *Acacia drepanocarpa* subsp. *drepanocarpa* 3m (40%) with *Acacia ancistrocarpa*, *Gardenia pyriformis*, *Grevillea wickhamii*, *Grevillea refracta* PFC 45% over *Triodia epactia* hummock grassland.**Veg Condition** Excellent**Fire Age** 5-10 years.**Notes** Leaf litter cover 2 %, Brae ground cover 50%,**SPECIES LIST:**

Species	Phase 1			Comments
	Cover (%)	Height (cm)	Specimen	
<i>Acacia ancistrocarpa</i>	2	350		
<i>Acacia drepanocarpa</i> subsp. <i>drepanocarpa</i>	3.5	300		
<i>Acacia tumida</i> var. <i>kulparn</i>	0.1	200		
<i>Aristida holathera</i> var. <i>holathera</i>	0.1	20		
<i>Arivela viscosa</i>	0.1	20		
<i>Boerhavia gardneri</i>	0.1	10	JP01-04	
<i>Bonamia alatisemina</i>	0.1	20	JP01-05	
<i>Bulbostylis barbata</i>	0.1	10		
<i>Cassytha capillaris</i>	5	40		
<i>Eragrostis eriopoda</i>	0.1	30	JP01-07	
<i>Euphorbia psilosperma</i>	0.1	20	JP01-02	
<i>Gardenia pyriformis</i> subsp. <i>keartlandii</i>	0.1	150		
<i>Goodenia armitiana</i>	0.1	30		
<i>Grevillea pyramidalis</i>	0.1	400		
<i>Grevillea refracta</i> subsp. <i>refracta</i>	0.1	300		
<i>Grevillea wickhamii</i>	0.1	350		
<i>Gyrostemon tepperi</i>	0.1	20		
<i>Panicum australiense</i> var. <i>australiense</i>	0.1	10		
<i>Polycarpaea corymbosa</i> var. <i>corymbosa</i>	0.1	10	JP01-06	
<i>Portulaca bicolor</i>	0.1	10	LS051	
<i>Ptilotus arthrolasius</i>	0.1	40		
<i>Ptilotus astrolasius</i>	0.1	30		
<i>Ptilotus calostachyus</i>	0.1	40		
<i>Ptilotus polystachyus</i>	0.1	10	JP-01-03	
<i>Sorghum plumosum</i> var. <i>plumosum</i>	0.1	60-150		
<i>Striga curviflora</i>	0.1	20	LS057	
<i>Trianthema pilosum</i>	0.1	10	JP01-01	
<i>Trigastrotheca molluginea</i>	0.1	10		
<i>Triodia epactia</i>	40	40-150		
<i>Zornia chaetophora</i>	0.1	30		



Rio Tinto Copper - Winu Project Site WIN053**Described by** JP LS**Date** 01/04/2023 **Type** Q

50x50

Season E**Uniformity** Excellent**Location** Wallal Borefield**MGA Zone** 51 320505 mE 7775913 mN**Habitat** Pindan Plain (P9)**Soil** Deep red sand**Rock Type** Unknown, subcropping**Vegetation** Acacia monticola 4m Acacia ancistrocarpa 5m Acacia drepanocarpa subsp. drepanocarpa 3m Erythrophleum chlorostachys 2m PFC 15-18% over Triodia epactia 35% with Androcalva loxophylla and Cassytha capillaris PFC 5%.**Veg Condition** Excellent**Fire Age** Long unburnt**Notes****SPECIES LIST:**

Species	Phase 1			Comments
	Cover (%)	Height (cm)	Specimen	
Acacia ancistrocarpa	5	400-500		
Acacia drepanocarpa subsp. drepanocarpa	3	300		
Acacia monticola	10	400		
Androcalva loxophylla	2	50		
Bonamia alatisemina	0.1	30		
Bulbostylis barbata	0.1	5		
Cassytha capillaris	2	40		
Cucumis variabilis	0.1	100		
Dodonaea coriacea	0.1	40		
Eriachne ciliata	0.1	20	JP-02-01	
Erythrophleum chlorostachys	1	200		
Euphorbia psilosperma	0.1	20		
Gardenia pyriformis subsp. keartlandii	0.1	30		
Goodenia armitiana	0.1	30		
Goodenia hartiana	0.1	40		
Grevillea pyramidalis	0.1	80		
Grevillea refracta subsp. refracta	0.1	500		
Gyrostemon tepperi	0.1	100		
Hibiscus leptocladus	0.1	20	JP02-02	
Panicum australiense var. australiense	0.1	10		
Portulaca bicolor	0.1	10		
Ptilotus arthrolasius	0.1	20		
Ptilotus astrolasius	0.1	40		
Ptilotus calostachyus	0.1	60		
Ptilotus polystachyus	0.1	10		
Sorghum plumosum var. plumosum	0.1	50-150		
Tephrosia sp. D Kimberley Flora (R.D. Royce 1848)	0.1	20		
Trianthema pilosum	0.1	10		
Tribulopsis marliesiae	0.1	30		
Trigastrotheca molluginea	0.1	10		
Triodia epactia	35	40-150		

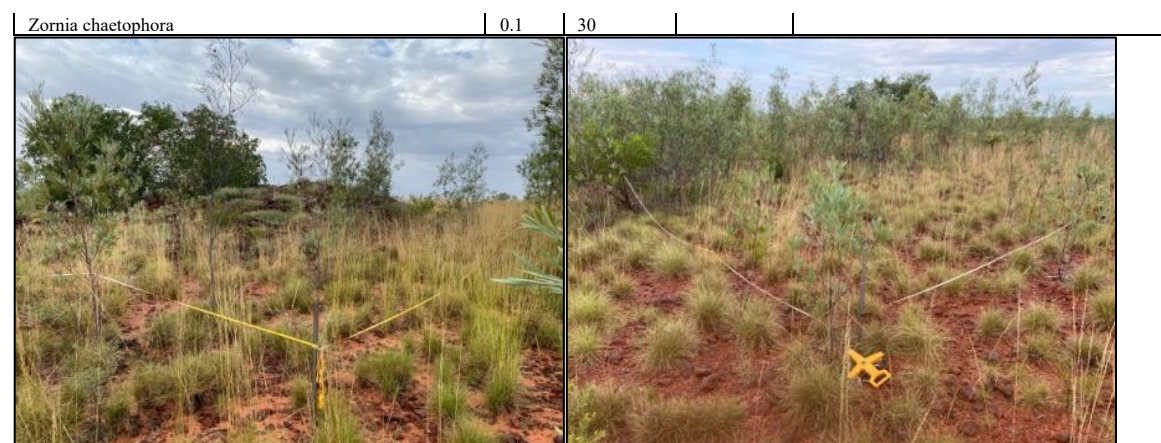


Rio Tinto Copper - Winu Project**Site** WIN054**Described by** JP LS**Date** 03/04/2023 **Type** Q

50x50

Season E**Uniformity** Excellent**Location** Rimfire**MGA Zone** 51 303132 mE 7780050 mN**Habitat** Rock outcrop (R4)**Soil** Loamy sand**Rock Type** Weathered ironstone**Vegetation** Ficus brachypoda 5m PFC 1% over Grevillea refracta 3.5m with occasional Acacia monticola 2m PFC 10% over Triodia epactia 1.5m hummock grassland (15%) with mixed shrubs and grasses (PFC 40%)**Veg Condition** Excellent**Fire Age** 5-10 years.**Notes** Isolated rocky outcrop contains Ficus, whilst surrounding gravelly areas are dominated by G. refracta and A. monticola.**SPECIES LIST:**

Species	Phase 1			Comments
	Cover (%)	Height (cm)	Specimen	
?Digitaria brownii	0.1	40	JP03-22	
Abutilon otocarpum	0.1	30	JP03-03	
Acacia monticola	0.1	200		
Acacia sabulosa	0.1	150	JP03-16	
Achyranthes aspera	0.1	40	JP03-09	
Amaranthus undulatus	0.1	30	JP03-01	
Aristida inaequiglumis	0.1	160	JP03-17	
Arivela viscosa	0.1	20		
Boerhavia gardneri	0.1	30	JP03-02	
Bonamia alatisemina	0.1	20	JP03-19	
Bulbostylis barbata	0.1	10		
Calandrinia strophiolata	0.1	10		
Calytrix carinata	0.1	10		
Cassytha capillaris	0.1	20		
Corchorus sidoides subsp. sidoides	0.1	50		
Cucumis variabilis	0.5	50		
Cullen martinii	0.1	10		
Cyperus microcephalus subsp. microcephalus	0.1	40	JP03-06	
Dichanthium sericeum subsp. humilium	0.1	40	JP03-20	
Dodonaea hispidula var. arida	0.1	100		
Eragrostis eriopoda	0.1	30	JP03-14	
Eriachne ciliata	0.1	40		
Eriachne mucronata	0.1	40	JP03-23	
Euphorbia australis var. subtomentosa	0.1	5	JP03-11	
Euphorbia psilosperma	0.1	10	JP03-18	
Ficus brachypoda	1	500		
Gomphrena leptoclada	0.1	10	JP03-10	
Goodenia azurea subsp. hesperia	0.1	20		
Grevillea pyramidalis subsp. pyramidalis	0.1	20	JP03-12	
Grevillea refracta subsp. refracta	8	350		
Indigofera monophylla	0.1	40		
Paspalidium clementii	0.1	40	JP03-07	
Polycarpaea corymbosa var. corymbosa	0.1	20		
Polycarpaea holtzei	0.1	10	JP03-15	
Portulaca filifolia	0.1	10	JP03-08	
Portulaca oleracea	0.1	5	JP03-13	
Ptilotus astrolasius	0.1	40		
Ptilotus calostachyus	0.1	40		
Sida arenicola	0.1	60		
Sida rohlenae subsp. rohlenae	0.1	30	JP03-04	
Solanum diversiflorum	0.1	20		
Sorghum plumosum var. plumosum	0.1	120		
Striga curviflora	0.1	40		
Tephrosia simplicifolia	0.1	20	JP03-21	
Tephrosia sp. D Kimberley Flora (R.D. Royce 1848)	0.1	20		
Tinospora smilacina	0.1	10		
Trianthema pilosum	0.1	10		
Trigastrotheca molluginea	0.1	10		
Triodia epactia	15	30-150		
Triumfetta maconochieana	0.1	30	JP03-05	



Rio Tinto Copper - Winu Project

Described by JP LS

Site WIN055

Date 04/04/2023 Type Q

50x50

Season E

Uniformity Excellent

Location Rimfire

MGA Zone 51 321377 mE 7777140 mN

Habitat Pindan Plain (P10b)

Soil Deep red sand

Rock Type Unknown, subcropping

Vegetation Gardenia pyriformis 5m PFC 1% over Acacia tumida var. kulparn 2m 4% and Triodia schinzii 1.5m 10-12%

Veg Condition Excellent

Fire Age 5-10 years.

Notes Leaf litter cover 2 %, Brae ground cover 50%,

SPECIES LIST:

Species	Phase 1			Comments
	Cover (%)	Height (cm)	Specimen	
Abildgaardia oxystachya	0.1	20	JP04-02	
Acacia anaticeps	0.1	100	JP04-09	
Acacia tumida var. kulparn	10	200	JP04-12	
Androcalva loxophylla	0.1	40		
Aristida holathera var. holathera	0.1	30		
Bonamia oblongifolia	0.5	10	JP04-04	N=450
Bonamia oblongifolia	0.1	20		
Bulbostylis barbata	0.1	10		
Calandrinia strophilata	0.1	20	JP04-03	
Corchorus sidoides subsp. sidoides	0.1	30	JP04-05	
Corynotheca gracilis	0.1	10		
Cucumis variabilis	0.1	50		
Cullen ?pustulatum	0.5	80	JP04-08	
Eriachne obtusa	0.1	50	JP04-13	
Erythrophleum chlorostachys	0.1	250		
Euphorbia psilosperma	0.1	20		
Gardenia pyriformis subsp. keartlandii	0.5	600		
Gompholobium simplicifolium	3	50		
Goodenia armitiana	0.1	20		
Gyrostemon tepperi	0.1	80		
Halgania solanacea var. solanacea	0.1	50	JP04-06	
Hibiscus leptocladus	0.1	40	JP04-01	
Indigofera ammobia	0.1	40		N=5
Jacksonia aculeata	1.5	50		
Newcastelia cladotricha	1	50		
Polycarpaea corymbosa var. corymbosa	0.1	20	JP04-10	
Portulaca bicolor	0.1	20		
Ptilotus arthrolasius	0.1	40		
Ptilotus astrolasius	0.1	30		
Scaevola parvifolia subsp. parvifolia	0.1	30		
Seringia ×katatona	0.1	40	JP04-11	
Sorghum plumosum var. plumosum	0.5	150		
Tephrosia sp. D Kimberley Flora (R.D. Royce 1848)	0.1	30	JP04-07	
Trianthema pilosum	0.1	5		
Tribulopsis marliesiae	0.1	30		N=1
Triodia schinzii	12	40-150		
Zornia chaetophora	0.1	30		



Rio Tinto Copper - Winu Project**Site** WIN056**Described by** JW ND**Date** 04/04/2023 **Type** Q

50x50

Season E**Uniformity** Excellent**Location** Wallal Borefield**MGA Zone** 51 293571 mE 7778091 mN**Habitat** Sand dune (P10b)**Soil** Deep sand**Rock Type** Unknown, subcropping**Vegetation** Owenia reticulata 5-6m PFC 2-3% over Acacia eriopoda 2-3m 1-2% with Gardenia pyriformis 2-3m over Triodia schinzii (20%) and Triodia epactia (5%) and Cyanostegia cyanocalyx, Gompholobium simplicifolium 1m Eriachne obtusa, Bulbostylis barbata, Trianthema pilosa.**Veg Condition** Excellent**Fire Age** 10+ years.**Notes** Leaf litter cover 2-3 %, Bare ground cover 25%, Total PFC all strata 40%.**SPECIES LIST:**

Species	Phase 1			Comments
	Cover (%)	Height (cm)	Specimen	
Abildgaardia oxystachya	0.1	20	JW	
Acacia anaticeps	0.1	120		
Acacia eriopoda	4	150-300		
Arivela uncifera	0.1	20	JW	
Boerhavia gardneri	0.1	10		
Bulbostylis barbata	0.1	10		
Calandrinia strophiolata	0.1	10		
Calytrix carinata	0.1	120		
Cassytha capillaris	0.5	30		
Corchorus sidoides subsp. sidoides	0.1	5		
Corynotheca gracilis	0.5	40		
Cyanostegia cyanocalyx	0.5	60		
Dampiera cinerea	0.1	60		
Eragrostis eriopoda	0.1	20	JW	
Eriachne obtusa	0.1	30		
Euphorbia psilosperma	0.1	10	JW	
Gardenia pyriformis subsp. keartlandii	0.1	300		
Gompholobium simplicifolium	0.5	60		
Gyrostemon tepperi	0.1	150		
Owenia reticulata	2	500		
Panicum australiense var. australiense	0.1	10		
Paranotis pterospora	0.1	30	JW	
Polygala isingii	0.1	10	JW	
Portulaca bicolor	0.1	5	JW	
Portulaca filifolia	0.1	20	JW	
Ptilotus arthrolasius	0.1	10		
Setaria surgens	0.1	20	JW	
Sida sp. Pindan (B.G. Thomson 3398)	0.1	40		
Solanum diversiflorum	0.1	20	JW	
Sorghum plumosum var. plumosum	0.1	180		
Tinospora smilacina	0.1	300	JW	
Trianthema pilosum	0.1	10	JW	
Tribulopsis marliesiae	0.1	10		
Triodia epactia	2	40-160		
Triodia schinzii	25	40-170		
Zornia chaetophora	0.1	20		



Rio Tinto Copper - Winu Project**Site** WIN060**Described by** JW JP**Date** S1 19/06/2022 S2 09/10/2022**Type** Q

50x50

Location MIA Extensions (Western polygon)**MGA Zone** 51K 354708 mE 7710001 mN 121.604843 E -20.703788 S**Habitat** P3 - Sandplain with *Acacia drepanocarpa* & *Triodia schinzii***Soil** Red sand.**Vegetation** *Owenia reticulata* 3m *Erythrophleum chlorostachys* 2m scattered trees PFC <1% over *Acacia drepanocarpa* 2.5m *Grevillea wickhamii* 2.5m shrubland PFC 10-15% over *Triodia schinzii* 1m *Bonamia erecta* 0.3m and *Jacksonia aculeata* 0.5m PFC 25-30%.**Veg Condition** Excellent**Fire Age** 3-5 years**Notes****SPECIES LIST:**

Species	Phase 1			Phase 2			Comments
	Cover (%)	Height (cm)	Specimen	Cover (%)	Height (cm)	Specimen	
<i>Acacia drepanocarpa</i> subsp. <i>latifolia</i>	8	225	60-03	8	225		
<i>Acacia platycarpa</i> 'Desert Form Non-Pruinose'	0.1	30		0.1	30-130		
<i>Acacia platycarpa</i> 'Desert Form Pruinose'	0.1	190		0.1	190		
<i>Amphipogon sericeus</i>	0.1	20		0.1	20		
<i>Aristida holathera</i> var. <i>holathera</i>	0.1	30		0.1	30		
<i>Bonamia alatisemina</i>	0.1	10		0.1	10		
<i>Bonamia erecta</i>	1			1	40		
<i>Calytrix carinata</i>	1	70		1	70		
<i>Codonocarpus cotinifolius</i>	0.1	200		0.1	200		
<i>Corchorus sidioides</i>	0.1	10					
<i>Corymbia chippendalei</i>	0.1	200	60-01	0.1	200		
<i>Dampiera candidans</i>	0.1	20		0.1	20		
<i>Dicrastylis cordifolia</i>	0.1	30		0.1	30		
<i>Dodonaea hispidula</i> var. <i>arida</i>	0.1	100		0.1	100		
<i>Eragrostis eriopoda</i>	0.1	30		0.1	30		
<i>Eriachne helmsii</i>				0.1	30		
<i>Eriachne lanata</i>	0.1	40		0.1	40		
<i>Eriachne obtusa</i>				0.1	50		
<i>Erythrophleum chlorostachys</i>	0.1	250		0.1	250		
<i>Gompholobium simplicifolium</i>	0.1	60		0.1	60		
<i>Goodenia armitiana</i>	0.1	60		0.1	60		
<i>Goodenia hartiana</i>	2	30		2	30		
<i>Grevillea wickhamii</i> subsp. <i>hispidula</i>	2	300	60-03	2	300		
<i>Gyrostemon teperi</i>	0.1	140		0.1	140		
<i>Hakea macrocarpa</i>				out	100		
<i>Halgania solanacea</i> var. <i>solanacea</i>	0.1	30		0.1	30		
<i>Indigofera boviparda</i> subsp. <i>eremaea</i>	0.1	40		0.1	40		
<i>Jacksonia aculeata</i>	0.1	40		0.1	40		
<i>Newcastelia cladotricha</i>	0.1	130		0.1	130		
<i>Owenia reticulata</i>	0.1	350		0.1	350		
<i>Ptilotus arthrolasius</i>				0.1	20		
<i>Seringia exastia</i>	0.1	50		0.1	50		
<i>Tephrosia arenicola</i>	0.1	80		0.1	80		
<i>Triodia schinzii</i>	15	30-100		15	30-110		
<i>Triumfetta deserticola</i>	0.1	130	60-04	0.1	130		



Rio Tinto Copper - Winu Project**Site** WIN061**Described by** JW JP**Date** S1 19/06/2022 S2 09/10/2022**Type** Q

50x50

Location MIA Extensions (Western polygon)**MGA Zone** 51 354680 mE 7709422 mN 121.604526 E -20.709016 S**Habitat** D1 - Sand dune with *Corymbia chippendalei***Soil** Deep soft red sand**Vegetation** *Corymbia chippendalei* 8m 1% PFC over *Erythrophleum chlorostachys* 2m *Grevillea stenobotrya* 2m *Acacia tumida* 1.5m *Thinicola incana* 2m *Acacia sabulosa* PFC 8-10% over *Gompholobium simplicifolium* 0.6m *Triodia schinzii* 0.3-1.5m *Eriachne aristidea* 0.4 PFC 15%**Veg Condition** Excellent**Fire Age** 5+ years**Notes****SPECIES LIST:**

Species	Phase 1			Phase 2			Comments
	Cover (%)	Height (cm)	Specimen	Cover (%)	Height (cm)	Specimen	
<i>Acacia platycarpa</i> 'Desert Form Pruinose'	1	150		1	150		
<i>Acacia sabulosa</i>	0.1	120		0.1	120		
<i>Acacia tumida</i> var. <i>kulparn</i>	0.1	200		0.1	200		
<i>Aristida holathera</i> var. <i>holathera</i>	0.1	30		0.1	30		
<i>Aristida holathera</i> var. <i>holathera</i>	0.1	60		0.1	60		
<i>Calytrix carinata</i>	0.1	40		0.1	40		
<i>Chamaecrista symonii</i>	0.1	50		0.1	50		
<i>Corymbia chippendalei</i>	1	800		1	40-80		
<i>Crotalaria cunninghamii</i> subsp. <i>cunninghamii</i>	0.1	120		0.1	120		
<i>Cyanostegia cyanocalyx</i>	1	80		1	80		
<i>Dampiera cinerea</i>	3	50		3	50		
<i>Dicrastylis doranii</i>	0.1	40		0.1	40		
<i>Eragrostis eriopoda</i>	0.1	20		0.1	20		
<i>Eriachne aristidea</i>	3	40		3	40		
<i>Eriachne obtusa</i>	0.1	40		0.1	40		
<i>Erythrophleum chlorostachys</i>	0.1	200		0.1	200		
<i>Gompholobium simplicifolium</i>	2	100		2	100		
<i>Grevillea stenobotrya</i>	1	250		1	250		
<i>Gyrostemon tepperi</i>	0.1	130		0.1	130		
<i>Indigofera ammobia</i>	0.1	40		0.1	40		
<i>Newcastelia cladotricha</i>	0.1	20		0.1	20		
<i>Panicum australiense</i> var. <i>australiense</i>	0.1	10		0.1	10		
<i>Paractaenum refractum</i>	0.1	40		0.1	40		
<i>Paranotis pterospora</i>	0.1	10		0.1	10		
<i>Petalostylis cassioides</i>	0.1	40		0.1	40		
<i>Ptilotus arthrolasius</i>	0.1	20		0.1	20		
<i>Sida</i> sp. Western sand dunes (P.K. Latz 11980)	1	150		1	150		
<i>Spermacoce occidentalis</i>	0.1	10		0.1	10		
<i>Swainsona microphylla</i>	0.1	120		0.1	120		
<i>Synostemon arenosus</i>	0.1	50		0.1	50		
<i>Thinicola incana</i>	0.1	230		0.1	230		
<i>Trianthema pilosum</i>	0.1	10		0.1	10		
<i>Triodia schinzii</i>	8	40-150		8	40-150		



Rio Tinto Copper - Winu Project**Site** WIN062**Described by** JW JP**Date** S1 19/06/2022 S2 09/10/2022**Type** Q

50x50

Location MIA Extensions (Western polygon)**MGA Zone** 51 354902 mE 7708200 mN 121.606557 E -20.720072 S**Habitat** P2 - Sandplain with *Acacia ancistrocarpa* & *Triodia schinzii***Soil** Red sand, firm**Vegetation** *Erythrophleum chlorostachys* 2m *Grevillea wickhamii* 2m *Acacia ancistrocarpa* 1.5m 2-5% PFC over *Triodia schinzii* 1.5m PFC 20-30% *Tephrosia arenicola* 0.8m *Bonamia erecta* 0.3m and *Ptilotus calostachyus* 8% PFC 50%**Veg Condition** Excellent**Fire Age** 3-5 years**Notes****SPECIES LIST:**

Species	Phase 1			Phase 2			Comments
	Cover (%)	Height (cm)	Specimen	Cover (%)	Height (cm)	Specimen	
<i>Acacia ancistrocarpa</i>	3	190		3	190		
<i>Acacia platycarpa</i> 'Desert Form Non-Pruinose'				0.1	20		
<i>Acacia sericophylla</i>	0.1	100		0.1	100		
<i>Amphipogon sericeus</i>	0.1	40		0.1	40		
<i>Aristida holathera</i> var. <i>holathera</i>	0.1	20		0.1	20		
<i>Aristida holathera</i> var. <i>holathera</i>				0.1	40		
<i>Bonamia erecta</i>	12	30		15	40		
<i>Calytrix carinata</i>	0.1	40		0.1	40		
<i>Codonocarpus cotinifolius</i>	0.1	100		0.1	100		
<i>Dampiera candidans</i>				0.1	30		
<i>Dicrastylis cordifolia</i>	0.1	30		0.1	30		
<i>Dodonaea hispidula</i> var. <i>arida</i>	0.1	70		0.1	70		
<i>Eragrostis eriopoda</i>	0.1	30		0.1	30		
<i>Eriachne lanata</i>	0.1	40		0.1	40		
<i>Erythrophleum chlorostachys</i>	0.1	100-200		0.1	100-200		
<i>Goodenia armitiana</i>	8	30		0.1	30		
<i>Grevillea wickhamii</i>	0.1	100-200		0.1	100-200		
<i>Halgania solanacea</i> var. <i>solanacea</i>	0.1	20		0.1	20		
<i>Hibiscus leptocladus</i>				0.1	20		
<i>Indigofera boviparda</i> subsp. <i>eremaea</i>	0.1	20		0.1	20		
<i>Indigofera monophylla</i>	0.1	60		0.1	60		
<i>Leptosema anomalum</i>	0.1	30		0.1	30		
<i>Ptilotus arthrolasius</i>	0.1	20		0.1	20		
<i>Ptilotus astrolasius</i>	0.1	40		0.1	40		
<i>Ptilotus calostachyus</i>	1	100		1	100		
<i>Sida arenicola</i>	0.1	200		0.1	200		
<i>Tephrosia arenicola</i>	0.1	80		0.1	80		
<i>Trigastrotheca molluginea</i>	0.1	10		0.1	10		
<i>Triodia schinzii</i>	35	20-150		35	20-150		





Rio Tinto Copper - Winu Project**Site Q63****Described by** JW JP**Date** S1 19/06/2022 S2 09/10/2022**Type** Q

50x50

Location MIA Extensions (Western polygon)**MGA Zone** 51 358489 mE 7709036 mN 121.641064 E -20.712796 S**Habitat** P2 - Sandplain with *Acacia ancistrocarpa* & *Triodia schinzii***Soil** Red sand, firm**Vegetation** *Owenia reticulata* 5-8m PFC 2% over *Acacia sericophylla* 2-3.5m *Erythrophleum chlorostachys* 2.5m *Acacia ancistrocarpa* 2m PFC 5-8% over *Triodia schinzii* PFC 15-25% *Jacksonia aculeata* 0.5m*Halgania solanacea* 0.4m *Goodenia hartiana* 0.4m *Dicrastylis cordifolia* 0.5m PFC 35%**Veg Condition** Excellent**Fire Age** 3-5 years**Notes****SPECIES LIST:**

Species	Phase 1			Phase 2			Comments
	Cover (%)	Height (cm)	Specimen	Cover (%)	Height (cm)	Specimen	
<i>Acacia ancistrocarpa</i>	0.1	180		0.1	180		
<i>Acacia sericophylla</i>	2	150		2	150		
<i>Acacia tumida</i> var. <i>kulparn</i>	0.1	100	63-01	0.1	100		
<i>Amphipogon sericeus</i>	0.1	60		0.1	60		
<i>Aristida holathera</i> var. <i>holathera</i>	0.1	40		0.1	40		
<i>Bonamia alatisemina</i>	0.1	10		0.1	10		
<i>Bonamia erecta</i>	0.1	50		0.1	50		
<i>Calytrix carinata</i>	0.1	50		0.1	50		
<i>Corchorus sidoides</i>	0.1	40		0.1	40		
<i>Dicrastylis cordifolia</i>	0.1	30		0.1	30		
<i>Dodonaea coriacea</i>				0.1	30		
<i>Eragrostis eriopoda</i>	0.1	40		0.1	40		
<i>Eriachne lanata</i>	0.1	50		0.1	50		
<i>Eriachne obtusa</i>	0.1	60					
<i>Erythrophleum chlorostachys</i>	1	150		1	150		
<i>Goodenia armitiana</i>				0.1	30		
<i>Goodenia hartiana</i>	0.5	50		0.5	50		
<i>Grevillea eriostachya</i>				out	180		
<i>Hakea loreus</i> subsp. <i>loreus</i>	0.1	100	63-03	0.1	100		
<i>Hakea macrocarpa</i>	0.1	100		0.1	100		
<i>Halgania solanacea</i> var. <i>solanacea</i>	0.5	30		0.5	30		
<i>Hibiscus leptocladus</i>	0.1	40		0.1	40		
<i>Indigofera boviparda</i> subsp. <i>eremaea</i>	0.1	40		0.1	40		
<i>Indigofera monophylla</i>	0.1	60		0.1	60		
<i>Jacksonia aculeata</i>	0.5	50		0.5	50		
<i>Newcastelia cladotricha</i>	0.1	50		0.1	50		
<i>Owenia reticulata</i>	2	50-80		2	50-80		
<i>Paraneurachne muelleri</i>	0.1	40		0.1	40		
<i>Petalostylis cassioides</i>	0.1	60		0.1	60		
<i>Ptilotus arthrolasius</i>	0.1	50		0.1	50		
<i>Scaevola parvifolia</i> subsp. <i>parvifolia</i>	0.1	20		0.1	20		
<i>Seringia exastia</i>	0.1	40		0.1	40		
<i>Sida</i> sp. <i>Pindan</i> (B.G. Thomson 3398)	0.1	40	63-02	0.1	40		
<i>Tephrosia arenicola</i>	0.1	20		0.1	20		
<i>Trianthema pilosum</i>	0.1	10		0.1	10		
<i>Trigastrotheca molluginea</i>	0.1	10		0.1	10		
<i>Triodia schinzii</i>	25	40		25	140		



Rio Tinto Copper - Winu Project**Site** WIN064**Described by** JW JP**Date** S1 19/06/2022 S2 09/10/2022**Type** Q

50x50

Location MIA Extensions (Western polygon)**MGA Zone** 51 358743 mE 7708422 mN 121.643453 E -20.718361 S**Habitat** D2 - Sand dune without *Corymbia chippendalei***Soil** Deep red sand, soft**Vegetation** *Acacia tumida* 1.8, *Erythrophleum chlorostachys* 1.2m *Grevillea stenobotrya* 1.8m PFC 6-8% over *Acacia anaticeps* 1.2m *Triodia schinzii* 1.5m *Dicrastylis doranii* 0.4m *Aristida holathera* 0.5m *Gompholobium simplicifolium* 0.5m PFC 20%**Veg Condition** Excellent**Fire Age** 3-5 years**Notes****SPECIES LIST:**

Species	Phase 1			Phase 2			Comments
	Cover (%)	Height (cm)	Specimen	Cover (%)	Height (cm)	Specimen	
<i>Acacia anaticeps</i>	0.1	120		0.1	120		
<i>Acacia sericophylla</i>	0.1	100		0.1	100		
<i>Acacia tumida</i> var. <i>kulparn</i>	4	180		4	180		
<i>Amphipogon sericeus</i>	0.1	30		0.1	30		
<i>Aristida holathera</i> var. <i>holathera</i>	0.1	40		0.1	40		
<i>Aristida holathera</i> var. <i>holathera</i>	0.1	50		0.1	50		
<i>Calytrix carinata</i>	0.1	40		0.1	40		
<i>Cassytha capillaris</i>	0.1	20		0.1	20		
<i>Comesperma sabulosum</i>	0.1	160	64-01	0.1	160		
<i>Corymbia chippendalei</i>				out	100		
<i>Corynotheca gracilis</i>	0.1	50		0.1	50		
<i>Dampiera cinerea</i>	2	50		2	50		
<i>Dicrastylis doranii</i>	3	40		3	40		
<i>Eragrostis eriopoda</i>	0.1	30		0.1	30		
<i>Eriachne aristidea</i>	0.1	50		0.1	50		
<i>Eriachne obtusa</i>	0.1	30		0.1	30		
<i>Erythrophleum chlorostachys</i>	5	120		0.5	120		
<i>Euploca glabella</i>	0.1	20					
<i>Gompholobium simplicifolium</i>	2	50		2	50		
<i>Grevillea stenobotrya</i>	0.1	180		0.1	180		
<i>Gyrostemon tepperi</i>	0.1	100		0.1	100		
<i>Halgania solanacea</i> var. <i>solanacea</i>	0.1	30		0.1	30		
<i>Indigofera ammobia</i>	0.1	40		0.1	40		
<i>Jacksonia aculeata</i>	0.1	40		0.1	40		
<i>Owenia reticulata</i>				out	800		
<i>Petalostylis cassioides</i>	0.5	150		0.5	150		
<i>Ptilotus arthrolasius</i>	0.1	20		0.1	20		
<i>Scaevola parvifolia</i> subsp. <i>parvifolia</i>	1	30		1	30		
<i>Sida</i> sp. Western sand dunes (P.K. Latz 11980)	0.1	40		0.1	40		
<i>Spermacoce occidentalis</i>	0.1	10		0.1	10		
<i>Swainsona microphylla</i>	0.1	180		0.1	180		
<i>Synostemon arenosus</i>	0.5	30		0.5	30		
<i>Thiicola incana</i>	0.1	180		0.1	180		
<i>Triodia schinzii</i>	10	40-150		10	40-150		



Rio Tinto Copper - Winu Project**Site** WIN065**Described by** JW JP**Date** S1 19/06/2022 S2 09/10/2022**Type** Q

50x50

Location MIA Extensions (Western polygon)**MGA Zone** 51 358837 mE 7707739 mN 121.644301 E -20.724538 S**Habitat** P3 - Sandplain with *Acacia drepanocarpa* & *Triodia schinzii***Soil** Red sand**Vegetation** *Acacia drepanocarpa* 2.5m 15-20% PFC *Erythrophleum chlorostachys* 1.9m over *Jacksonia aculeata* 0.8m *Gompholobium simplicifolium* 0.6m *Triodia schinzii* 0.3-1.2m PFC 25-30%.**Veg Condition** Excellent**Fire Age** 5 years**Notes****SPECIES LIST:**

Species	Phase 1			Phase 2			Comments
	Cover (%)	Height (cm)	Specimen	Cover (%)	Height (cm)	Specimen	
<i>Acacia drepanocarpa</i> subsp. <i>latifolia</i>	15	250		15	250		
<i>Amphipogon sericeus</i>	0.1	50		0.1	50		
<i>Aristida holathera</i> var. <i>holathera</i>	0.1	40		0.1	40		
<i>Bonamia alatisemina</i>	0.1	40		0.1	40		
<i>Dicrastylis cordifolia</i>	0.1	40		0.1	40		
<i>Dodonaea hispidula</i> var. <i>arida</i>	0.1	180		0.1	180		
<i>Eragrostis eriopoda</i>	0.1	30		0.1	30		
<i>Eriachne lanata</i>	0.1	40		0.1	40		
<i>Erythrophleum chlorostachys</i>	0.1	180		0.1	180		
<i>Gompholobium simplicifolium</i>	0.5	50		0.1	50		
<i>Goodenia armitiana</i>				0.1	20		
<i>Goodenia hartiana</i>	0.1	40		0.1	40		
<i>Gyrostemon tepperi</i>	0.1	180		0.1	180		
<i>Hakea macrocarpa</i>	1	100		0.1	100		
<i>Halgania solanacea</i> var. <i>solanacea</i>	0.1	30		0.1	30		
<i>Indigofera boviparda</i> subsp. <i>eremaea</i>	0.1	30		0.1	30		
<i>Jacksonia aculeata</i>	3	80		3	80		
<i>Newcastelia cladotricha</i>	0.1	80		0.1	80		
<i>Panicum australiense</i> var. <i>australiense</i>	0.5	80		0.1	10		
<i>Petalostylis cassioides</i>				0.5	80		
<i>Ptilotus arthrolasius</i>	0.1	30		0.1	30		
<i>Ptilotus astrolasius</i>	0.3	30		0.1	30		
<i>Seringia exastia</i>	0.1	40		0.1	40		
<i>Sida</i> sp. Pindan (B.G. Thomson 3398)	0.1	40		0.1	40		
<i>Tribulopsis marliesiae</i>	0.1	20		0.1	20		
<i>Triodia schinzii</i>	20	30-120		20	30-120		





Rio Tinto Copper - Winu Project**Site** WIN066**Described by** JW JP**Date** S1 20/06/2022 S2 10/10/2022**Type** Q

50x50

Location MIA Extensions (Western polygon)**MGA Zone** 51 364476 mE 7706186 mN 121.698326 E -20.738985 S**Habitat** P3 - Sandplain with *Acacia drepanocarpa* & *Triodia schinzii* / *T. epactia***Soil** Red sandy loam. Firm surface crust. Lateritic surface lag gravel.**Vegetation** *Acacia drepanocarpa* 2-3m with *Grevillea wickhamii* PFC 15% over *Triodia epactia* 0.3-1.0m (30%) and *Triodia schinzii* (10%) with *Mirbelia viminalis* 1.5m *Calytrix carinata* 0.6m PFC 50%.**Veg Condition** Excellent**Fire Age** Long unburnt**Notes** Greater proportion of *T. epactia* vs. *T. schinzii*.**SPECIES LIST:**

Species	Phase 1			Phase 2			Comments
	Cover (%)	Height (cm)	Specimen	Cover (%)	Height (cm)	Specimen	
<i>Abildgaardia oxystachya</i>	0.1	10		0.1	10		
<i>Acacia drepanocarpa</i> subsp. <i>latifolia</i>	15-20	300		20	200-300		
<i>Acacia platycarpa</i> 'Desert Form Non-Pruinose'				0.1	100		
<i>Androcalva loxophylla</i>	0.1	50		0.1	50		
<i>Aristida holathera</i> var. <i>holathera</i>	0.1	50		0.1	50		
<i>Bonamia alatisemina</i>	0.1	10		0.1	10		
<i>Calytrix carinata</i>	0.5	50-100		0.5	50-100		
<i>Cassytha capillaris</i>	0.1	40		0.1	40		
<i>Codonocarpus cotinifolius</i>	0.1	120		0.1	120		
<i>Dampiera candidans</i>				0.1	40		
<i>Dicrastylis cordifolia</i>	0.1	30		0.1	30		
<i>Eragrostis eriopoda</i>	0.1	30					
<i>Eriachne lanata</i>	0.1	40		0.1	40		
<i>Erythrophleum chlorostachys</i>	out	180		out	180		
<i>Goodenia armitiana</i>	0.1	10		0.1	10		
<i>Goodenia azurea</i> subsp. <i>hesperia</i>	0.1	40		0.1 dead	40		
<i>Goodenia hartiana</i>	0.1	40		0.1	40		
<i>Grevillea eriostachya</i>	out	100		out	100		
<i>Grevillea wickhamii</i>	0.1	300		0.1	200-300		
<i>Gyrostemon tepperi</i>	0.1	40		0.1 dead	40		
<i>Hakea loreus</i> subsp. <i>loreus</i>	out	400		out	400		
<i>Halgania solanacea</i> var. <i>solanacea</i>	0.1	30		0.1	30		
<i>Jacksonia aculeata</i>	1	60		1	60		
<i>Mirbelia viminalis</i>	1	150		1	150		
<i>Ptilotus calostachyus</i>	0.1	40		0.1	40		
<i>Tephrosia arenicola</i>	0.1	60		0.1	60		
<i>Trigastrotrocha molluginea</i>	0.1	10		0.1	10		
<i>Triodia epactia</i>	30	30-100		30	30-100		
<i>Triodia schinzii</i>	10	30-140		10	30-140		





Rio Tinto Copper - Winu Project**Site** WIN067**Described by** JW JP**Date** S1 20/06/2022 S2 10/10/2022**Type** Q

50x50

Location MIA Extensions (Western polygon)**MGA Zone** 51 361438 mE 7707585 mN 121.669263 E -20.726124 S**Habitat** D1 - Sand dune with *Corymbia chippendalei***Soil** Deep red sand. Soft**Vegetation** *Corymbia chippendalei* 7m PFC 3% over *Acacia tumida* 2.5m and *Acacia platycarpa* 1.5m PFC 7%over *Triodia schinzii* 0.4-1.4m (20%) *Dicrastylis doranii* 0.5m *Petalostylis cassioides* 0.7m PFC

35%.

Veg Condition Excellent**Fire Age** 5+ years**Notes****SPECIES LIST:**

Species	Phase 1			Phase 2			Comments
	Cover (%)	Height (cm)	Specimen	Cover (%)	Height (cm)	Specimen	
<i>Acacia platycarpa</i> 'Desert Form Non-Pruinose'	1	150		1	150		
<i>Acacia platycarpa</i> 'Desert Form Pruinose'	2	150		2	150		
<i>Acacia sabulosa</i>	0.1	60		0.1	60		
<i>Acacia sericophylla</i>	0.1	120		0.1	120		
<i>Acacia tumida</i> var. <i>kulparn</i>	1	250		1	250		
<i>Aristida holathera</i> var. <i>holathera</i>	0.1	50		0.1	50		
<i>Aristida holathera</i> var. <i>holathera</i>	0.1	70		0.1	70		
<i>Calytrix carinata</i>	0.1	100		0.1	100		
<i>Cassytha capillaris</i>				0.1	50		
<i>Corymbia chippendalei</i>	3	800		3	600-800		
<i>Crotalaria cunninghamii</i> subsp. <i>cunninghamii</i>	0.1	50		0.1	50		
<i>Cyanostegia cyanocalyx</i>	0.1	80		0.1	80		
<i>Dampiera cinerea</i>	0.1	50		0.1	50		
<i>Dicrastylis doranii</i>	4	50		4	50		
<i>Dodonaea coriacea</i>	0.1	40		0.1	40		
<i>Eragrostis eriopoda</i>	0.1	40		0.1	40		
<i>Eriachne aristidea</i>	0.1	80		0.1	80		
<i>Erythrophleum chlorostachys</i>	0.4	200		0.5	200		
<i>Euphorbia myrtoides</i>	0.1	10		0.1	10		
<i>Euploca transformis</i>	0.1	20		0.1	20		
<i>Gompholobium simplicifolium</i>	0.1	50		0.1	50		
<i>Grevillea stenobotrya</i>	0.1	150		0.1	150		
<i>Gyrostemon tepperi</i>	0.1	50		0.1	50		
<i>Hakea macrocarpa</i>	0.1	110		0.1	110		
<i>Halgania solanacea</i> var. <i>solanacea</i>	0.1	30		0.1	30		
<i>Indigofera ammobia</i>	0.1	60		0.1	60		
<i>Jacksonia aculeata</i>	0.1	50		0.1	50		
<i>Panicum australiense</i> var. <i>australiense</i>	0.1	10		0.1	10		
<i>Paractaenum refractum</i>	0.1	50		0.1	50		
<i>Petalostylis cassioides</i>	0.5	70		0.5	70		
<i>Scaevola parvifolia</i> subsp. <i>parvifolia</i>	0.1	10		0.1	10		
<i>Spermacoce occidentalis</i>	0.1	10		0.1	10		
<i>Synostemon arenosus</i>	0.1	40		0.1	40		
<i>Thinicola incana</i>	0.1	150		0.1	150		
<i>Triodia schinzii</i>	25	40-140		25	40-140		



Rio Tinto Copper - Winu Project**Site** WIN068**Described by** JW JP**Date** S1 20/06/2022 S2 10/10/2022**Type** Q

50x50

Location MIA Extensions (Western polygon)**MGA Zone** 50 361163 mE 7707061 mN 115.666581 E -20.730837 S**Habitat** Sand plain, Acacia ancistrocarpa over Triodia schinzii (P2)**Soil** Red sand, firm**Vegetation** Scattered Owenia reticulata 7m PFC 1% over Acacia ancistrocarpa 2m Erythrophleum chlorostachys 5m PFC 15% over Triodia schinzii 0.3-1.0m (35%) with Jacksonia aculeata 1m Petalostylis cassioides 1m PFC 45%.**Veg Condition** Excellent**Fire Age** 5+ years**Notes****SPECIES LIST:**

Species	Phase 1			Phase 2			Comments
	Cover (%)	Height (cm)	Specimen	Cover (%)	Height (cm)	Specimen	
Acacia ancistrocarpa	20	300		20	200-300		
Acacia sericophylla	0.1	100		0.1	100		
Bonamia alatisemina	0.1	10		0.1	10		
Calytrix carinata	0.1	40		0.1	40		
Cassytha capillaris	0.1	40		0.1	40		
Dicrastylis cordifolia	0.1	30		0.1	30		
Dodonaea hispidula var. arida	0.1	90		0.1	90		
Eriachne lanata	0.1	50		0.1	50		
Erythrophleum chlorostachys	0.5	300		0.5	200-300		
Gompholobium simplicifolium	0.1	60		0.1	60		
Goodenia hartiana	0.1	40		0.1	40		
Hakea loreus subsp. loreus	0.1	120		0.1	120		
Hakea macrocarpa	0.1	140		0.1	140		
Halgania solanacea var. solanacea	0.1	30		0.1	30		
Indigofera boviparda subsp. eremaea	1	30		1	30		
Jacksonia aculeata	5	120		5	120		
Owenia reticulata	1	100		1	100		
Petalostylis cassioides	5	150		5	150		
Sida sp. Pindan (B.G. Thomson 3398)				0.1	40		
Triodia schinzii	35	40-150		35	40-150		





Rio Tinto Copper - Winu Project**Site** WIN069**Described by** JW JP**Date** S1 20/06/2022 S2 10/10/2022**Type** Q

50x50

Location MIA Extensions (Western polygon)**MGA Zone** 50 356506 mE 7709365 mN 115.622052 E -20.709672 S**Habitat** C4 - Sandplain with *Acacia ancistrocarpa* & *Triodia epactia***Soil** Orange clayey sand, firm**Vegetation** *Acacia ancistrocarpa* 2-3m PFC 10-25% over *Triodia epactia* 0.6-1.5m PFC 15-20%**Veg Condition** Excellent**Fire Age** Long unburnt**Notes** Termite mounds, moderate clay soils**SPECIES LIST:**

Species	Phase 1			Phase 2			Comments
	Cover (%)	Height (cm)	Specimen	Cover (%)	Height (cm)	Specimen	
<i>Acacia ancistrocarpa</i>	15	20-250		15	200-250		
<i>Amphipogon sericeus</i>	0.1	40	69-01	0.1	40		<i>Amphipogon sericeus</i> (hairy)
<i>Aristida holathera</i> var. <i>holathera</i>	0.1	15		0.1	15		
<i>Aristida holathera</i> var. <i>holathera</i>	0.1	10		0.1	40		
<i>Aristida inaequiglumis</i>	0.1	40		0.1	40		
<i>Bonamia alatisemina</i>	0.1	10		0.1	10		
<i>Bulbostylis barbata</i>	0.1	10		0.1	10		
<i>Calytrix carinata</i>	0.1	40		0.1	40		
<i>Cassytha capillaris</i>	0.1	20		0.1	20		
<i>Dampiera candicans</i>	0.1	20		0.1	30		
<i>Dicrastylis cordifolia</i>	0.1	40		0.1	40		
<i>Dodonaea coriacea</i>	0.1	50		0.1	50		
<i>Eragrostis eriopoda</i>	0.1	40		0.1	40		
<i>Eriachne lanata</i>	0.1	40	69-02	0.1	40		
<i>Goodenia armitiana</i>	0.1	40		0.1	10		
<i>Grevillea wickhamii</i>	0.1	10		0.1	30		
<i>Halgania solanacea</i> var. <i>solanacea</i>	0.1	30		0.1	20		
<i>Leptosema anomalum</i>	0.1	20		0.1	30		
<i>Lysiandra eremica</i>	0.1	30		0.1	30		
<i>Mirbelia viminalis</i>	0.1	30		0.1	40		
<i>Panicum australiense</i> var. <i>australiense</i>	0.1	40		0.1	10		
<i>Paraneurachne muelleri</i>	0.1	10		0.1	40		
<i>Polygala isingii</i>	0.1	40					
<i>Ptilotus astrolasius</i>	0.1	10		0.1	40		
<i>Ptilotus calostachyus</i>	0.1	40		0.1	70		
<i>Ptilotus fusiformis</i>	0.1	70		out	10		
<i>Sida arenicola</i>	out	10		0.1	60		
<i>Sorghum plumosum</i> var. <i>plumosum</i>	0.1	60		0.1	80		
<i>Streptoglossa macrocephala</i>	0.1	80		out	5	69-01	
<i>Tephrosia arenicola</i>	0.1	40		0.1	40		
<i>Triodia epactia</i>	20	50-160		20	50-160		



Rio Tinto Copper - Winu Project**Site** WIN070**Described by** JW JP**Date** S1 21/06/2022 S2 08/10/2022**Type** Q

50x50

Location MIA Extensions (Western polygon)**MGA Zone** 51 356633 mE 7708336 mN 121.623188 E -20.718977 S**Habitat** P2 - Sandplain with *Acacia ancistrocarpa* & *Triodia schinzii***Soil** Red sand, loose. Fine surface fragments.**Vegetation** *Acacia ancistrocarpa* 1.5 *Erythrophleum chlorostachys* 1.5m *Acacia sericophylla* 1m PFC 3% *Triodia schinzii* 0.3-1.2m (15%) and *Sorghum plumosum* 0.5-1m *Bonamia erecta* 0.5m

Androcalva

loxophylla 0.4m PFC 35%

Veg Condition Excellent**Fire Age** 3 years**Notes****SPECIES LIST:**

Species	Phase 1			Phase 2			Comments
	Cover (%)	Height (cm)	Specimen	Cover (%)	Height (cm)	Specimen	
<i>Acacia ancistrocarpa</i>	1	120-200		1	120-200		
<i>Acacia dictyophleba</i>	1	200	70-01	0.1	50		
<i>Acacia sericophylla</i>	0.1	50		1	200		
<i>Amphipogon sericeus</i>	0.1	40		0.1	40		
<i>Androcalva loxophylla</i>	0.1	30		0.1	30		
<i>Bonamia erecta</i>	1	50		1	50		
<i>Calytrix carinata</i>	0.1	60		0.1	60		
<i>Dampiera candidans</i>				0.1	40		
<i>Dicrastylis cordifolia</i>	0.1	50		0.1	50		
<i>Dodonaea hispidula</i> var. <i>arida</i>	0.1	120		0.1	120		
<i>Eragrostis eriopoda</i>	0.1	50		0.1	50		
<i>Eriachne lanata</i>	0.1	50		0.1	50		
<i>Eriachne obtusa</i>	0.1	60		0.1	60		
<i>Erythrophleum chlorostachys</i>	1	100		1	100		
<i>Goodenia armitiana</i>	0.1	50		0.1	50		
<i>Halgania solanacea</i> var. <i>solanacea</i>	0.1	30		0.1	30		
<i>Hibiscus leptocladus</i>	0.1	10		0.1	10		
<i>Indigofera boviperda</i> subsp. <i>eremaea</i>	0.5	20		0.5	20		
<i>Indigofera monophylla</i>	0.1	50		0.1	50		
<i>Paraneurachne muelleri</i>	0.1	40		0.1	40		
<i>Petalostylis cassioides</i>	0.5	100		0.5	100		
<i>Ptilotus arthrolasius</i>	0.1	50		0.1	50		
<i>Ptilotus astrolasius</i>	0.1	50		0.1	50		
<i>Ptilotus calostachyus</i>	0.1	50					
<i>Sida arenicola</i>	out	90		out	90		
<i>Sorghum plumosum</i> var. <i>plumosum</i>	1	50-100		1	50-100		
<i>Tephrosia arenicola</i>	0.1	50		0.1	50		
<i>Trianthema pilosum</i>	0.1	10		0.1	10		
<i>Trigastroteca molluginea</i>	0.1	10		0.1	10		
<i>Triodia schinzii</i>	20	30-120		20	30-120		





Rio Tinto Copper - Winu Project**Site Q71****Described by** JW JP**Date** S1 21/06/2022 S2 08/10/2022**Type** Q

50x50

Location MIA Extensions (Eastern polygon)**MGA Zone** 51 380006 mE 7705807 mN 121.847438 E -20.743473 S**Habitat** P4 - Sandplain with Acacia orthocarpa & Triodia schinzii**Soil** Red sand loose**Vegetation** Acacia orthocarpa 1-2m PFC 1-2% over Acacia monticola 1.5m Grevillea wickhamii 1.5m and Erythrophleum chlorostachys 2m PFC 2-3% over Triodia schinzii 0.4-1.4m (8-10%) with Dicrastylis exsuccosa 0.5m and Eriachne lanata PFC 30%**Veg Condition** Excellent**Fire Age** approx. 5 years**Notes** Many young A. monticola present - possibly returning after fire.**SPECIES LIST:**

Species	Phase 1			Phase 2			Comments
	Cover (%)	Height (cm)	Specimen	Cover (%)	Height (cm)	Specimen	
Acacia ancistrocarpa	0.1	50		0.1	50		
Acacia monticola	0.5	150		0.5	150		
Acacia orthocarpa	1	150-180		21	150-180		
Amphipogon sericeus	0.1	50		0.1	50		
Aristida holathera var. holathera	0.1	40		0.1	40		
Bonamia alatisemina	0.1	10		0.1	10		
Calytrix carinata	0.1	50		0.1	50		
Dampiera candidans	0.1	60		0.1	60		
Dicrastylis cordifolia	0.1	40		0.1	40		
Dicrastylis exsuccosa	1	60	71-02	1	60		
Eragrostis eriopoda	0.1	40		0.1	40		
Eriachne lanata	0.5	50		0.5	50		
Euploca vestita	0.1	70	71-04	0.1	70		
Goodenia armitiana	0.1	30		0.1	30		
Goodenia hartiana	0.1	30		0.1	30		
Grevillea wickhamii	0.1	150		0.1	150		
Halgania solanacea var. solanacea	0.1	20		0.1	20		
Hibiscus leptocladus	0.1	50		0.1	50		
Indigofera bovipera subsp. eremaea	0.1	20		0.1	20		
Indigofera monophylla	0.1	80		0.1	80		
Paraneurachne muelleri	0.1	40		0.1	40		
Ptilotus astrolasius	0.1	80		0.1	80		
Ptilotus calostachyus	0.1	60		0.1	60		
Senna notabilis	0.1	70					
Sida arenicola	0.1	70	71-01	0.1	70		
Solanum sp.	0.1	30	71-03	0.1	30		
Tephrosia arenicola	0.1	40		0.1	40		
Trigastrotheca molluginea	0.1	10		0.1	10		
Triodia schinzii	25	40-150		25	40-150		



Rio Tinto Copper - Winu Project**Site** WIN072**Described by** JW JP**Date** S1 21/06/2022 S2 08/10/2022**Type** Q

50x50

Location MIA Extensions (Eastern polygon)**MGA Zone** 51 378525 mE 7705790 mN 121.833214 E -20.743531 S**Habitat** D1 - Sand dune with *Corymbia chippendalei***Soil** Deep red sand, soft**Vegetation** *Corymbia chippendalei* 6m PFC 2% *Acacia sabulosa* 1.5m *Thinicola incana* 1.9m *Grevillea stenobotrya* 2-3m *Sida* sp. Western sand dunes (P.K. Latz 11980) 1-2m PFC 3% over *Triodia schinzii* (8%) *Dicrastylis doranii* 0.3m *Eragrostis eriopoda* 0.4m *Eriachne helmsii* 0.6m PFC 12-15%.**Veg Condition** Excellent**Fire Age** 5-10 years**Notes****SPECIES LIST:**

Species	Phase 1			Phase 2			Comments
	Cover (%)	Height (cm)	Specimen	Cover (%)	Height (cm)	Specimen	
<i>Acacia anaticeps</i>	out	100		out	100		
<i>Acacia sabulosa</i>	0.1	150		0.5	150		
<i>Acacia tumida</i> var. <i>kulparn</i>	1	150		1	150		
<i>Aristida holathera</i> var. <i>holathera</i>	0.1	40		0.1	40		
<i>Aristida holathera</i> var. <i>holathera</i>	0.1	50		0.1	50		
<i>Bulbostylis barbata</i>	0.1	10		0.1	10		
<i>Cassytha capillaris</i>	0.1	40		0.1	40		
<i>Corymbia chippendalei</i>	2	600		2	600		
<i>Corynotheca asperata</i>	0.1	40		0.1	40		
<i>Crotalaria cunninghamii</i> subsp. <i>cunninghamii</i>	0.1	180	72-01	0.1	180		
<i>Cucumis variabilis</i>	0.1	40		0.1	40		
<i>Dampiera cinerea</i>	0.1	60		0.1	60		
<i>Dicrastylis doranii</i>	3	30		3	30		
<i>Eragrostis eriopoda</i>	50	40		0.5	40		
<i>Eriachne aristidea</i>	0.1	40		0.1	40		
<i>Eriachne helmsii</i>	1	60		1	60		
<i>Erythrophleum chlorostachys</i>	0.1	300		0.1	300		
<i>Euphorbia myrtilloides</i>	0.1	10		0.1	10		
<i>Gompholobium simplicifolium</i>	out	70		out	70		
<i>Grevillea stenobotrya</i>	0.5	300		0.5	200-300		
<i>Grevillea wickhamii</i>	out	200		out	200		
<i>Indigofera ammobia</i>	0.1	50		0.1	50		
<i>Newcastelia cladotricha</i>	0.1	70		0.1	70		
<i>Panicum australiense</i> var. <i>australiense</i>	0.1	10		0.1	10		
<i>Paractaenum refractum</i>	0.1	40		0.1	40		
<i>Paranotis pterospora</i>	0.1	10					
<i>Ptilotus arthrolasius</i>	0.1	30		0.1	30		
<i>Scaevola parvifolia</i> subsp. <i>parvifolia</i>	0.1	40		0.1	40		
<i>Setaria surgens</i>	0.1	10					
<i>Sida</i> sp. Pindan (B.G. Thomson 3398)	out	100		out	100		
<i>Sida</i> sp. Western sand dunes (P.K. Latz 11980)	0.1	140		0.1	140		
<i>Spermacoce occidentalis</i>	0.1	10		0.1	10		
<i>Swainsona microphylla</i>	0.1	170		0.1	170		
<i>Thinicola incana</i>	0.1	190		0.1	190		
<i>Trianthema pilosum</i>	0.1	5		0.1	5		
<i>Triodia schinzii</i>	8	60-160		8	60-160		



Rio Tinto Copper - Winu Project**Site****WIN073****Described by** JW JP**Date** S1 21/06/2022 S2 08/10/2022**Type** Q

50x50

Location MIA Extensions (Eastern polygon)**MGA Zone** 51 378320 mE 7705457 mN 121.831222 E -20.746526 S**Habitat** P4 - Sandplain with Acacia orthocarpa & Triodia schinzii**Soil** Red sand, firm.**Vegetation** Scattered Owenia reticulata 6m Erythrophleum chlorostachys 1.2m and Grevillea wickhamii 2-3m PFC <1% over Acacia orthocarpa 1-2m PFC 5% with Petalostylis cassioides 1.5m Hakea macrocarpa 1.5m PFC 6-8% over Triodia schinzii 0.4-1.6 PFC 25%**Veg Condition** Excellent**Fire Age** 5-10 years**Notes****SPECIES LIST:**

Species	Phase 1			Phase 2			Comments
	Cover (%)	Height (cm)	Specimen	Cover (%)	Height (cm)	Specimen	
Acacia ancistrocarpa	0.1	40		0.1	40		
Acacia drepanocarpa subsp. latifolia	0.1	120		0.1	120		
Acacia orthocarpa	5	150-200		5	150-200		
Acacia sericophylla	0.1	160		0.1	160		
Amphipogon sericeus	0.1	20		0.1	20		
Aristida holathera var. holathera	0.1	20		0.1	20		
Bonamia alatisemina	0.1	10		0.1	10		
Calytrix carinata	0.1	50		0.1	50		
Corchorus sidoides	0.1	30		0.1	30		
Dampiera cinerea	0.1	40		0.1	40		
Dicrastylis cordifolia	2	30		2	30		
Eragrostis eriopoda	0.1	40		0.1	40		
Eriachne lanata	0.1	70		0.1	70		
Erythrophleum chlorostachys	1.5	120		1.5	120		
Goodenia armitiana	0.1	20					
Goodenia hartiana	0.1	40		0.1	40		
Grevillea eriostachya	0.1	100		0.1	100		
Hakea macrocarpa	0.5	150		0.5	150		
Halgania solanacea var. solanacea	0.5	40		0.5	40		
Indigofera boviparda subsp. eremaea	0.1	40		0.1	40		
Jacksonia aculeata	0.1	50		0.1	50		
Paraneurachne muelleri	0.1	50		0.1	50		
Petalostylis cassioides	0.1	150		0.1	150		
Ptilotus arthrolasius	0.1	30		0.1	30		
Ptilotus astrolasius	0.1	30		0.1	30		
Ptilotus calostachyus	1	50		0.1	50		
Scaevola parvifolia subsp. parvifolia	0.1	30		0.1	30		
Seringia exastia	0.1	50		0.1	50		
Sida sp. Pindan (B.G. Thomson 3398)	0.1	40					
Tephrosia arenicola	0.1	50		0.1	50		
Trigastrotheca molluginea	0.1	10		0.1	10		
Triodia schinzii	0.1	30-160		25	30-160		





Rio Tinto Copper - Winu Project**Site** WIN074**Described by** JW JP**Date** S1 21/06/2022 S2 08/10/2022**Type** Q

50x50

Location MIA Extensions (Eastern polygon)**MGA Zone** 51K 376103 mE 7707611 mN 121.810082 E -20.726921 S**Habitat** P3 - Sandplain with *Acacia drepanocarpa* & *Triodia schinzii***Soil** Red sand, firm, loose. Fine gravel present in small levels.**Vegetation** *Acacia drepanocarpa* 2-3m *Grevillea wickhamii* 3m PFC 15-20% over *Triodia schinzii* PFC 15% *Dicrastylis exsuccosa* 1m *Eriachne lanata* 0.6m PFC 25% with occasional *Acacia platycarpa* (desert form pruinose) 1m *Acacia orthocarpa* 1.8m PFC 25%.**Veg Condition** Excellent**Fire Age** 10-15 years**Notes** Band of *Acacia orthocarpa* to NE of plot, some *T. epactia* within quadrat**SPECIES LIST:**

Species	Phase 1			Phase 2			Comments
	Cover (%)	Height (cm)	Specimen	Cover (%)	Height (cm)	Specimen	
<i>Acacia drepanocarpa</i> subsp. <i>latifolia</i>	10	300		10	200-300		
<i>Acacia orthocarpa</i>	0.1	180		0.1	180		
<i>Acacia platycarpa</i> 'Desert Form Non-Pruinose'	0.1	100		0.1	100		
<i>Amphipogon sericeus</i>	0.1	40		0.1	40		
<i>Androcalva loxophylla</i>	0.1	50		0.1	50		
<i>Bonamia alatisemina</i>	0.1	10		0.1	10		
<i>Codonocarpus cotinifolius</i>	0.1	40		0.1	40		
<i>Dicrastylis exsuccosa</i>	2	100		2	100		
<i>Dodonaea coriacea</i>				out	60		
<i>Eragrostis eriopoda</i>	0.1	30		0.1	30		
<i>Eriachne lanata</i>	1	40		1	40		
<i>Eriachne obtusa</i>	0.1	70		0.1	70		
<i>Goodenia hartiana</i>	0.1	40		0.1	40		
<i>Grevillea wickhamii</i>	0.1	200		0.1	200	74-02	
<i>Hakea loreus</i> subsp. <i>loreus</i>	0.1	100		0.1	100	74-01	
<i>Hakea macrocarpa</i>	0.1	100		0.1	100		
<i>Halgania solanacea</i> var. <i>solanacea</i>	1	50		1	50		
<i>Indigofera boviparda</i> subsp. <i>eremaea</i>	0.1	30		0.1	30		
<i>Ptilotus arthrolasius</i>	0.1	30		0.1	30		
<i>Ptilotus astrolasius</i>	0.1	20		0.1	20		
<i>Ptilotus calostachyus</i>	1	40		1	40		
<i>Ptilotus fusiformis</i>	0.1	40					
<i>Sorghum plumosum</i> var. <i>plumosum</i>	0.1	60		0.1	60		
<i>Tephrosia arenicola</i>	0.1	120		0.1	120		
<i>Trigastrotheca molluginea</i>	0.1	20		0.1	20		
<i>Triodia epactia</i>	3	50-100		3	50-100		
<i>Triodia schinzii</i>	18	30-150		18	30-150		



Rio Tinto Copper - Winu Project**Site** WIN075**Described by** JW JP**Date** S1 21/06/2022 S2 07/10/2022**Type** Q

50x50

Location MIA Extensions (Eastern polygon)**MGA Zone** 51 374114 mE 7709841 mN 121.791143 E -20.706642 S**Habitat** P4 - Sandplain with Acacia orthocarpa & Triodia schinzii**Soil** Red sand, loose**Vegetation** Acacia orthocarpa 2-3m with occasional Erythrophleum chlorostachys 2m and Owenia reticulata 5m PFC 10-15% over Triodia schinzii 0.4-1.5m Bonamia erecta 0.3m Ptilotus astrolasius 0.4m Dicrastylis exsuccosa 0.5m Eriachne lanata 0.5m PFC 15-20%**Veg Condition** Excellent**Fire Age** 5 years**Notes****SPECIES LIST:**

Species	Phase 1			Phase 2			Comments
	Cover (%)	Height (cm)	Specimen	Cover (%)	Height (cm)	Specimen	
Abildgaardia oxystachya	0.1	10		0.1	10		
Acacia ancistrocarpa	1	200		1	200		
Acacia orthocarpa	15	300		15	200-300		
Amphipogon sericeus	0.1	70		0.1	70		
Aristida holathera var. holathera	0.1	40		0.1	40		
Bonamia erecta	3	30		3	30		
Dicrastylis exsuccosa	4	50		4	50		
Dodonaea coriacea				0.1	50		
Eragrostis eriopoda	0.5	30		0.5	30		
Eriachne aristidea				0.1	10		
Eriachne lanata	2	50		2	50		
Eriachne obtusa	0.1	70		0.1	70		
Erythrophleum chlorostachys	out	200		0.1	200		
Goodenia armitiana	0.1	30		0.1	30		
Grevillea eriostachya	0.1	200		0.1	200		
Hakea macrocarpa				out	120		
Halgania solanacea var. solanacea				out	20		
Indigofera boviparda subsp. eremaea	0.1	30		0.1	30		
Indigofera boviparda subsp. eremaea	0.1	40		0.1	40		
Indigofera monophylla	0.1	70		0.5	70		
Jacksonia aculeata	0.1	70		0.1	70		
Leptosema anomalum	0.1	30		0.1	30		
Paraneurachne muelleri	0.1	50		0.1	50		
Ptilotus astrolasius	0.1	30		0.1	30		
Ptilotus calostachyus				0.1	60		
Ptilotus fusiformis	0.1	30		0.1	30		
Scaevola parvifolia subsp. parvifolia	0.1	30		0.1	30		
Seringia exastia	0.1	60		0.1	60		
Sida arenicola	0.1	130		0.1	130		
Sorghum plumosum var. plumosum	0.1	90		0.1	90		
Tephrosia arenicola	0.1	70		0.1	70		
Tribulopsis marliesiae				0.1	10		
Trigastrotheca molluginea	0.1	10		0.1	10		
Triodia schinzii	10	40-150		10	40-150		

Rio Tinto Copper - Winu Project**Site** WIN076**Described by** JW JP**Date** S1 22/06/2022 S2 07/10/2022**Type** Q

50x50

Location MIA Extensions (Eastern polygon)**MGA Zone** 51 375140 mE 7709218 mN 121.800949 E -20.712339 S**Habitat** P14 - Sandplain with *Acacia monticola* & *Triodia schinzii***Soil** Shallow sand over clay, soft

Vegetation *Acacia monticola* 2-3m *Acacia drepanocarpa* 2-3m *Grevillea wickhamii* 2-3m PFC 20-25% over *Calytrix carinata* 0.6m *Triodia schinzii* 0.3-1.5m (8-10%) *Dampiera candidans* 0.6m young resprouting *Acacia drepanocarpa* 0.5m *Acacia monticola* 0.5m *Tephrosia arenicola* 0.5m *Bonamia erecta* 0.3m *Aristida holathera* subsp. *holathera* 0.3m *Ptilotus calostachyus* 0.5m *Triodia epactia* 0.5-1m and *Triodia schinzii* 0.3-1.5m PFC 12-15%.

Veg Condition Excellent**Fire Age** Burnt in last 10 years**Notes****SPECIES LIST:**

Species	Phase 1			Phase 2			Comments
	Cover (%)	Height (cm)	Specimen	Cover (%)	Height (cm)	Specimen	
<i>Acacia drepanocarpa</i> subsp. <i>latifolia</i>	3	400		3	400		
<i>Acacia monticola</i>	12	300		12	300		
<i>Acacia orthocarpa</i>	0.1	40		0.1	40		
<i>Amphipogon sericeus</i>	0.1	50		0.1	50		
<i>Aristida holathera</i> var. <i>holathera</i>	0.1	30		0.1	30		
<i>Aristida inaequiglumis</i>	0.1	50		0.1	50		
<i>Bonamia alatisemina</i>	0.1	10		0.1	10		
<i>Bonamia erecta</i>	1	30		1	30		
<i>Calytrix carinata</i>	0.1	60		0.1	60		
<i>Dampiera candidans</i>	0.1	40-60		0.1	40-60		
<i>Dicrastylis exsuccosa</i>	0.1	60		0.1	60		
<i>Eragrostis eriopoda</i>	0.1	40		0.1	40		
<i>Eriachne lanata</i>	0.1	30		0.1	30		
<i>Eulalia aurea</i>	0.1	40		0.1	40		
<i>Gompholobium simplicifolium</i>				out	70		
<i>Goodenia armitiana</i>	0.1	40		0.1	40		
<i>Grevillea wickhamii</i>	0.1	60-160		0.1	60-160	76-01	
<i>Gyrostemon tepperi</i>	0.1	70		0.1	70		
<i>Halgania solanacea</i> var. <i>solanacea</i>	0.1	30		0.1	30		
<i>Hibiscus leptocladus</i>				0.1	40		
<i>Indigofera boviparda</i> subsp. <i>eremaea</i>	0.1	30		0.1	30		
<i>Paraneurachne muelleri</i>	0.1	30		0.1	30		
<i>Ptilotus astrolasius</i>	0.1	30		0.1	30		
<i>Ptilotus calostachyus</i>	0.5	50		0.5	50		
<i>Sida arenicola</i>	0.1	60		0.1	60-250		
<i>Solanum ?centrale</i>	0.1	60		0.1	60	76-02	
<i>Sorghum plumosum</i> var. <i>plumosum</i>	0.1	60		0.1	60		
<i>Tephrosia arenicola</i>	0.1	50		0.1	50		
<i>Trigastrotheca molluginea</i>	0.1	10		0.1	10		
<i>Triodia epactia</i>	2	40-150		2	40-150		
<i>Triodia schinzii</i>	10	30-150		10	30-150		



Rio Tinto Copper - Winu Project**Site****WIN077****Described by** JW JP**Date** S1 21/06/2022 S2 08/10/2022**Type** Q

50x50

Location MIA Extensions (Eastern polygon)**MGA Zone** 51 379222 mE 7707497 mN 121.840025 E -20.728155 S**Habitat** P14 - Sandplain with *Acacia monticola* & *Triodia schinzii***Soil** Fine sandy surface over clay

Vegetation *Acacia monticola* 2-3m *Acacia orthocarpa* 3-4m *Acacia ancistrocarpa* 2-3m *Acacia drepanocarpa* 2-3m PFC 10-15% over *Triodia schinzii* 0.3-1.5m PFC 20-25% over *Eragrostis eriopoda* 0.2m *Eriachne lanata* 0.4m *Eriachne obtusa* 0.5m *Amphipogon sericeus* 0.4m *Ptilotus calostachyus* 0.7m *Ptilotus astrolasius* 0.4m *Halgania solanacea* 0.3m *Calytrix carinata* 0.6-1.5m *Bonamia alatisemina* 0.2m PFC 35%.

Veg Condition Excellent**Fire Age** 5-10 years**Notes****SPECIES LIST:**

Species	Phase 1			Phase 2			Comments
	Cover (%)	Height (cm)	Specimen	Cover (%)	Height (cm)	Specimen	
<i>Acacia ancistrocarpa</i>	0.1	100		0.1	100		
<i>Acacia drepanocarpa</i> subsp. <i>latifolia</i>	2	20-250		2	200-250		
<i>Acacia monticola</i>	6	300		6	200-300		
<i>Acacia orthocarpa</i>	0.5	400		0.5	200-400		
<i>Amphipogon sericeus</i>	0.1	40		0.1	40		
<i>Aristida holathera</i> var. <i>holathera</i>	0.1	40		0.1	40		
<i>Aristida inaequiglumis</i>				0.1	60		
<i>Bonamia alatisemina</i>	0.1	20		0.1	20		
<i>Calytrix carinata</i>	0.1	60-150		0.1	60-150		
<i>Cassytha capillaris</i>	0.1	30		0.1	30		
<i>Dampiera candidans</i>	out	30		out	30		
<i>Dicrastylis cordifolia</i>	0.1	40		0.1	40		
<i>Dicrastylis exsuccosa</i>	0.1	10		0.1	10		
<i>Dodonaea coriacea</i>	0.1	120		0.1	120		
<i>Eragrostis eriopoda</i>	0.1	20		0.1	20		
<i>Eriachne aristidea</i>	0.1	20		0.1	20		
<i>Eriachne lanata</i>	2	40		2	40		
<i>Eriachne obtusa</i>	0.1	50		0.1	50		
<i>Goodenia armitiana</i>	0.1	20		0.1	20		
<i>Goodenia hartiana</i>	0.1	30		0.1	30		
<i>Grevillea wickhamii</i>	out	160		out	160		
<i>Gyrostemon tepperi</i>	0.1	70-170		0.1	70-170		
<i>Hakea macrocarpa</i>				out	200		
<i>Halgania solanacea</i> var. <i>solanacea</i>	0.5	30		0.5	30		
<i>Indigofera boviparda</i> subsp. <i>eremaea</i>	0.1	40		0.1	40		
<i>Panicum australiense</i> var. <i>australiense</i>	0.1	10		0.1	10		
<i>Ptilotus astrolasius</i>	0.1	40		0.1	40		
<i>Ptilotus calostachyus</i>	0.1	70		0.1	70		
<i>Scaevola parvifolia</i> subsp. <i>parvifolia</i>				0.1	30		
<i>Seringia exastia</i>	0.1	30		out	50		
<i>Sida arenicola</i>	0.1	120		0.1	120		
<i>Solanum</i> sp.	0.1	50		0.1	50		
<i>Trigastrotheca molluginea</i>	0.1	10		0.1	10		
<i>Triodia schinzii</i>	25	40-150		25	40-150		



Rio Tinto Copper - Winu Project**Site****WIN078****Described by** JW JP**Date** S1 21/06/2022 S2 08/10/2022**Type** Q

50x50

Location MIA Extensions (Eastern polygon)**MGA Zone** 51 376731 mE 7708715 mN 121.816190 E -20.716989 S**Habitat** P14 - Sandplain with *Acacia monticola* & *Triodia schinzii***Soil** Red sand over clay, firm**Vegetation** *Acacia monticola* 2-4m *Acacia drepanocarpa* 2-4m PFC 10-12% over *Triodia schinzii* (25-30%) and *Dicrastylis exsuccosa* 0.4m, *Ptilotus arthrolasius* 0.4m *Ptilotus astrolasius* 0.4m PFC 40%.**Veg Condition** Excellent**Fire Age** 10 years +**Notes****SPECIES LIST:**

Species	Phase 1			Phase 2			Comments
	Cover (%)	Height (cm)	Specimen	Cover (%)	Height (cm)	Specimen	
<i>Abildgaardia oxystachya</i>	0.1	10		0.1	10		
<i>Acacia drepanocarpa</i> subsp. <i>latifolia</i>				out	150		
<i>Acacia monticola</i>	8	300		8	300		
<i>Acacia orthocarpa</i>	0.1	200		0.1	200		
<i>Amphipogon sericeus</i>	0.1	60		0.1	60		
<i>Amphipogon sericeus</i>	0.1	60		0.1	60		<i>Amphipogon sericeus</i> (hairy)
<i>Aristida holathera</i> var. <i>holathera</i>	0.1	20		0.1	20		
<i>Bonamia alatisemina</i>	0.1	10		0.1	10		
<i>Bulbostylis barbata</i>	0.1	10		0.1	10		
<i>Calytrix carinata</i>	0.1	170		0.1	170		
<i>Cassytha capillaris</i>	0.1	20		0.1	20		
<i>Dampiera candidans</i>	0.1	30		0.1	30		
<i>Dicrastylis cordifolia</i>				out	30		
<i>Dicrastylis exsuccosa</i>	0.5	40		0.5	40		
<i>Dodonaea coriacea</i>	0.1	120		0.1	120		
<i>Eragrostis eriopoda</i>	0.1	20		0.1	20		
<i>Eriachne lanata</i>	1	40		1	40		
<i>Eriachne obtusa</i>	0.1	60		0.1	60		
<i>Erythrophleum chlorostachys</i>	out	180		out	180		
<i>Goodenia armitiana</i>	0.1	40		0.1	40		
<i>Goodenia hartiana</i>	0.5	40		0.5	40		
<i>Grevillea wickhamii</i>	0.1	100		0.1	100		
<i>Gyrostemon tepperi</i>	0.1	70		0.1	70		
<i>Halgania solanacea</i> var. <i>solanacea</i>	0.1	40		0.1	40		
<i>Indigofera boviparda</i> subsp. <i>eremaea</i>	0.1	30		0.1	30		
<i>Owenia reticulata</i>				out	500		
<i>Panicum australiense</i> var. <i>australiense</i>	0.1	10		0.1	10		
<i>Ptilotus arthrolasius</i>	0.5	40		0.5	40		
<i>Ptilotus astrolasius</i>	0.1	40		0.5	40		
<i>Ptilotus calostachyus</i>	0.1	50		0.1	50		
<i>Scaevola parvifolia</i> subsp. <i>parvifolia</i>	0.1	10		0.1	10		
<i>Seringia exastia</i>				out	50		
<i>Sida arenicola</i>	0.1	180		0.1	180		
<i>Tephrosia arenicola</i>	0.1	60		0.1	60		
<i>Tribulopsis marliesiae</i>				0.1	10		
<i>Trigastrotheca molluginea</i>	0.1	10		0.1	10		
<i>Triodia schinzii</i>	30	40-150		30	40-150		



Rio Tinto Copper - Winu Project**Site** WIN080**Described by** JW JP**Date** P1 (12/10/2022) P2 (25/6/2023)**Type** Q 50x50**Season** E**Uniformity** Excellent**Location** Rimfire PB07**MGA Zone** 51 394046 mE 7699993 mN 121.981925 E -20.796851 S**Habitat** Corymbia candida Open Woodland (P15a)**Soil** Red sand**Rock Type**

Vegetation Corymbia candida 8-10m PFC 2% over Acacia orthocarpa 1.7m Acacia drepanocarpa 1.7m PFC
 1-2% over Triodia schinzii 0.4-1.2m (8%) Aristida inaequiglumis 0.6m Dampiera candidans
 0.5m Tephrosia arenicola 0.6m Trigastrotheca molluginea 0.1m Abildgaardia oxystachya,
 Dicrastylis exsuccosa 0.3m PFC 10-15%

Veg Condition Excellent**Fire Age** Long unburnt**Notes****SPECIES LIST:**

Species	S1 Cover (%)	S1 Height (cm)	S1 Specimen	S2 Cover (%)	S2 Height (cm)	S2 Specimen
Abildgaardia oxystachya	0.1	10		0.1	10	Q80-03
Acacia colei var. colei	0.1	100		0.1	100	
Acacia drepanocarpa subsp. latifolia	1	170		0.1	200	
Acacia orthocarpa	0.1	170		0.1	200	
Afrohybanthus aurantiacus	0.1	40		0.1	30	Q80-07
Amphipogon sericeus				0.1	40	
Aristida holathera var. holathera	0.1	40		0.1	30	
Aristida inaequiglumis	5	60		0.1	40	
Calytrix carinata	0.1	30		0.1	10	
Clerodendrum sp. Indet.				0.1	180	Q80-04
Corchorus sidoides	0.1	40		0.1	30	
Corymbia candida	2	80-100		2	100	
Cymbopogon ambiguus	0.1	50		0.1	50	
Dampiera candidans	0.1	50				
Dicrastylis exsuccosa	0.1	30		0.1	30	
Digitaria brownii				0.1	40	Q80-01
Eragrostis eriopoda	0.1	20		0.1	20	
Eriachne lanata	0.1	60		0.1	50	
Fimbristylis ?depauperata	0.1	30		0.1	60	Q80-05
Goodenia armitiana	0.1	40		0.1	15	
Hibiscus leptocladus				0.1	20	Q80-02
Indigofera monophylla				0.1	60	
Jacksonia aculeata				0.1	30	
Leptosema anomalum	0.1	50		0.1	20	
Paraneurachne muelleri	0.1	30		0.1	50	
Ptilotus arthrolasius	0.1	30		0.1	10	
Ptilotus astrolasius	0.1	40		0.1	10	
Ptilotus calostachyus	0.1	50		0.1	40	
Sida arenicola	0.1	600		0.1	40	
Sida sp. Pindan (B.G. Thomson 3398)	0.1	30		0.1	30	Q80-02
Sorghum plumosum var. plumosum	0.1	60		0.1	60	
Tephrosia arenicola	0.1	60		0.1	60	
Trigastrotheca molluginea	0.1	10		0.1	10	
Triodia schinzii	8	40-120		10	40-160	
Zornia albiflora				0.1	30	Q80-06



Rio Tinto Copper - Winu Project**Site** WIN081**Described by** JW JP**Date** 12/10/2022**Type** Q 50x50**Season** E**Uniformity** Excellent**Location** Rimfire PB13**MGA Zone** 51 395179 mE 7700562 mN 121.992845 E -20.791774 S**Habitat** Triodia brizoides Hummock Grassland (R1)**Soil** Red sand over claypan**Rock Type**

Vegetation Emergent shrubland of Acacia monticola 1.8m Acacia ancistrocarpa 2m and Sida arenicola 1.5m PFC 1% over Triodia brizoides 0.3m (10-12%) Triodia epactia 0.4-1.7m (5-8%) Streptoglossa odora 0.4m, Trianthema triquetrum 0.1m, Eragrostis dielsii 0.05m Sporobolus australasicus 0.2m PFC 25-30%

Veg Condition Excellent**Fire Age****Notes** Site located within Heritage exclusion area, unable to revisit.**SPECIES LIST:**

Species	S1 Cover (%)	S1 Height (cm)	S1 Specimen
Abildgaardia oxystachya	0.1	10	
Acacia adoxa var. adoxa	0.1	30	
Acacia ancistrocarpa	0.1	50-200	
Acacia monticola	0.1	50-180	
Acacia orthocarpa	0.1	50	
Aristida holathera var. holathera	0.1	30	
Bulbostylis barbata	0.1	5	
Cassitha capillaris	0.1	30	
Clerodendrum floribundum	0.1	250	
Eragrostis dielsii	0.1	5	
Eragrostis eriopoda	0.1	20	
Eriachne aristidea	0.1	10	
Eriachne ciliata	0.1	20	
Eriachne lanata	1	40	
Eulalia aurea	1	40	
Evolvulus alsinoides var. villosicalyx	0.1	20	
Goodenia armitiana	0.1	40	
Jacksonia aculeata	0.1	30	
Paraneurachne muelleri	0.1	50	
Polycarpaea corymbosa var. corymbosa	0.1	10	
Ptilotus astrolasius	0.1	30	
Ptilotus calostachyus	0.1	40	
Ptilotus exaltatus	0.1	20	
Fimbristylis sp.	0.1	40	
Senna artemisioides subsp. helmsii	0.1	40	
Sida arenicola	0.1	150	
Sporobolus australasicus	0.1	20	
Streptoglossa odora	0.1	10	
Tephrosia arenicola	0.1	60	
Trianthema triquetrum	0.1	10	
Trigastroteca molluginea	0.1	20	
Triodia brizoides	12	30	
Triodia epactia	8	40-170	



Rio Tinto Copper - Winu Project**Site** WIN082**Described by** JW JP**Date** P1 (12/10/2022) P2 (25/6/2023)**Type** Q

50x50

Season E**Uniformity** Excellent**Location** Rimfire RC08**MGA Zone** 51 396258 mE 7965543 mN 122.017846 E -18.397545 S**Habitat** Acacia hilliana Shrubland (R3)**Soil** Red sandy loam**Rock Type** Laterized ironstone duricrust

Vegetation Midstory shrubland of Acacia drepanocarpa 1.7m Acacia monticola 1.2m Calytrix carinata 1.7m Grevillea eriostachya 1m Grevillea wickhamii 1m Gyrostemon tepperi 1m Mirbelia viminalis 1.2m PFC 1-2% over Acacia hilliana 0.3m (25-30%) with Triodia schinzii 0.3-1.2m Acacia adoxa 0.3m Eriachne obtusa 0.4m Triodia epactia 0.3-1.2m Goodenia azurea subsp. hesperia 0.4m Dampiera candicans 0.5m PFC 35-38%

Veg Condition Excellent**Fire Age****Notes.** Track to drill pad has been pushed through middle of quadrat. Most of the species still found.**SPECIES LIST:**

Species	S1 Cover (%)	S1 Height (cm)	S1 Specimen	S2 Cover (%)	S2 Height (cm)	S2 Specimen
Acacia adoxa var. adoxa	0.1	30		0.1	30	
Acacia drepanocarpa subsp. latifolia	0.1	170		0.1	170	
Acacia hilliana	30	30		30	30	
Acacia hilliana × stellaticeps	0.1	30				
Acacia monticola	0.5	100-220		1	100-220	
Acacia stellaticeps	0.1	30		0.1	30	
Amphipogon sericeus	0.1	30		0.1	30	
Aristida holathera var. holathera				0.1	10	
Bonamia alatisemina				0.1	10	
Bonamia erecta	0.1	40		0.1	40	
Calytrix carinata	0.1	170		0.1	170	
Cassytha capillaris	0.1	20		0.1	20	
Dampiera candicans	0.1	50		0.1	50	
Dicrastylis cordifolia	0.1	30		0.1	30	
Dodonaea coriacea	0.1	70		0.1	70	
Eragrostis eriopoda	0.1	20		0.1	20	
Eriachne lanata	0.1	60		0.1	60	
Eriachne obtusa	0.1	40				
Goodenia azurea subsp. hesperia	0.1	50		0.1	50	
Goodenia triodiophila				0.1	20	
Grevillea eriostachya	0.1	100		0.1	100	
Grevillea wickhamii subsp. hispidula	0.1	100		0.1	100	82-01
Gyrostemon tepperi	0.1	100		0.1	150	
Halgania solanacea var. solanacea	0.1	30		0.1	30	
Hibiscus leptocladus				0.1	10	82-81
Jacksonia aculeata				0.1	10	
Mirbelia viminalis	0.1	60-120		0.1	60-120	
Newcastelia cladotricha	0.1	50		0.1	50	
Panicum australiense var. australiense				0.1	10	
Paranotis pterospora				0.1	10	
Ptilotus astrolasius	0.1	30		0.1	30	
Ptilotus astrolasius	0.1	20				
Ptilotus calostachyus	0.1	60		0.1	60	
Ptilotus fusiformis				0.1	10	
Senna notabilis				0.1	10	
Seringia exastia	0.1	20		0.1	20	
Sida arenicola	0.1	30		0.1	30	
Sorghum plumosum var. plumosum	0.1	60		0.1	60	
Trigastrotheca molluginea	0.1	10		0.1	10	
Triodia epactia	0.1	30-120		0.1	30-120	
Triodia schinzii	0.5	30-120		0.5	30-120	



Rio Tinto Copper - Winu Project**Site** WIN083**Described by** JW JP**Date** P1 (3/10/2022) P2 (29/6/2023)**Type** Q 50x50**Season** E**Uniformity** Excellent**Location** Rimfire PB02**MGA Zone** 51 397496 mE 7695568 mN 122.014812 E -20.837022 S**Habitat** Acacia platycarpa - Acacia tumida var. kulparn Shrubland - deep sand swale (P1)**Soil** Soft orange/red sand**Rock Type****Vegetation** Owenia reticulata 4-6m PFC 1-2% over Acacia tumida var. kulparn 1.8m Grevillea wickhamii 1-2.5m Acacia platycarpa (desert form pruinose) 1.2m PFC 5-8% over Triodia schinzii 1.2m

Eriachne

Lanata 0.6m Dicrasyllis doranii 0.4m Acacia stellaticeps 0.6m Dampiera cinerea 0.5m PFC 40%

Veg Condition Excellent**Fire Age** 5 years**Notes****SPECIES LIST:**

Species	S1 Cover (%)	S1 Height (cm)	S1 Specimen	S2 Cover (%)	S2 Height (cm)	S2 Specimen
Acacia hilliana × stellaticeps				0.1	30	83-01
Acacia platycarpa 'Desert Form Pruinosae'	2	150		2	150	
Acacia stellaticeps	0.5	60		0.5	60	
Acacia tumida var. kulparn	1	15		1	15	
Bonamia erecta	1	40		1	40	
Calytrix carinata	0.1	60		0.1	60	
Cassitya capillaris	0.1	40		0.1	40	
Cyanostegia cyanocalyx	0.1	60		0.1	60	
Dampiera candidans	0.1	40		0.1	40	
Dampiera cinerea	0.1	50				
Dicrasyllis doranii	0.1	40		1.5	40	
Dodonaea coriacea	0.1	60		0.1	60	
Eriachne lanata	0.1	60		0.1	60	
Gompholobium simplicifolium	0.5	60		0.5	60	
Grevillea wickhamii subsp. hispidula	0.1	300		0.1	300	
Gyrostemon tepperi	0.1	180		0.1	180	
Indigofera boviparda subsp. eremaea	0.1	30		0.1	30	
Newcastelia cladotricha	0.1	50		0.1	50	
Owenia reticulata	1	40-60		1	40-60	
Paraneurachne muelleri				0.1	20	
Pimelea ammodarion	0.1	30		0.1	30	
Ptilotus arthrolasius				0.1	20	
Ptilotus calostachyus				0.1	40	
Scaevola parvifolia subsp. parvifolia	0.1	20		0.1	20	
Seringia exastia	0.1	60		0.1	60	
Triodia schinzii	35	40-120		35	40-120	





Rio Tinto Copper - Winu Project**Site** WIN084**Described by** JW JP**Date** P1 (3/10/2022) P2 (27/6/2023)**Type** Q 50x50**Season** E**Uniformity** Excellent**Location** Rimfire RC06**MGA Zone** 51 298238 mE 7694846 mN 121.061048 E -20.835403 S**Habitat** Acacia hilliana Shrubland on rocky lateritic outcrop (R2)**Soil** Fine red brown sand**Rock Type** Lateritic duricrust. Abundant angular pisolithic surface fragments.

Vegetation Acacia monticola 2-3m with Grevillea wickhamii 1.5-2 PFC 5-8% over Acacia hilliana 0.4m
 Acacia adoxa var. adoxa 0.4m Triodia epactia (20%) Triodia brizoides (3%) Tephrosia arenicola
 Goodenia azurea var. hesperia 0.4m with Trigastrotheca molluginea 0.1m Cassytha capillaris
 0.5m PFC 30%

Veg Condition Excellent**Fire Age** Long unburnt**Notes****SPECIES LIST:**

Species	S1 Cover (%)	S1 Height (cm)	S1 Specimen	S2 Cover (%)	S2 Height (cm)	S2 Specimen
Acacia adoxa var. adoxa	0.5	50		0.5	50	
Acacia ancistrocarpa	0.1	160		0.1	160	
Acacia hilliana	2	40		2	40	
Acacia monticola	2	150-350		2	150-350	
Aristida holathera var. holathera	0.1	20				
Calytrix carinata	0.1	60		0.1	60	
Cassytha capillaris	0.1	50		0.1	50	
Corchorus sidoides subsp. sidoides	0.1	40	84-01	0.1	40	
Dampiera candidans	0.1	30		0.1	30	
Dodonaea coriacea	0.1	50		0.1	80	
Eragrostis eriopoda				0.1	20	
Eriachne lanata	0.1	50	84-02	0.1	50	
Goodenia azurea subsp. hesperia	0.1	50		0.1	50	
Goodenia connata	0.1	30				
Grevillea wickhamii subsp. hispidula	0.1	80		0.1	80	
Grevillea wickhamii subsp. hispidula	3	150-250		3	150-250	
Gyrostemon tepperi				0.1	40	
Petalostylis cassioides				0.1	50	
Ptilotus arthrolasius	0.1	10				
Ptilotus calostachyus	0.1	60		0.1	60	
Senna notabilis	0.1	50				
Sida arenicola	0.1	180		0.1	180	
Tephrosia arenicola	0.1	50		0.1	50	
Trigastrotheca molluginea	0.1	10		0.1	10	
Triodia brizoides	3	50-120		3	50-120	
Triodia epactia	20	50-120		12	50-120	





Rio Tinto Copper - Winu Project**Site** WIN085**Described by** JW JP**Date** 14/10/2022 **Type** Q

50x50

Season E**Uniformity** Excellent**Location** Rimfire PB16**MGA Zone** 51 393633 mE 7699566 mN 121.977931 E -20.800685 S**Habitat** Corymbia candida Open Woodland (P15a)**Soil** Shallow red sand over clay**Rock Type** Sub-cropping; light cover of lateritic surface gravel.**Vegetation** Corymbia candida 6-8m PFC 1-2% over Acacia monticola 1.5m Acacia drepanocarpa 1.8m Acacia

sericophylla 1.5-3m PFC 3-8% over Triodia epactia 40-120m Aristida inaequiglumis 1m Eulalia aurea

Abutilon sp. 0.4m Eremophila latrobei subsp. glabra 0.8m Paraneurachne muelleri 0.4m

Trigastrotheca molluginea 0.1m PFC 15-20%

Veg Condition Excellent**Fire Age** 5+ years**Notes** Site located within Heritage exclusion area, unable to revisit.**SPECIES LIST:**

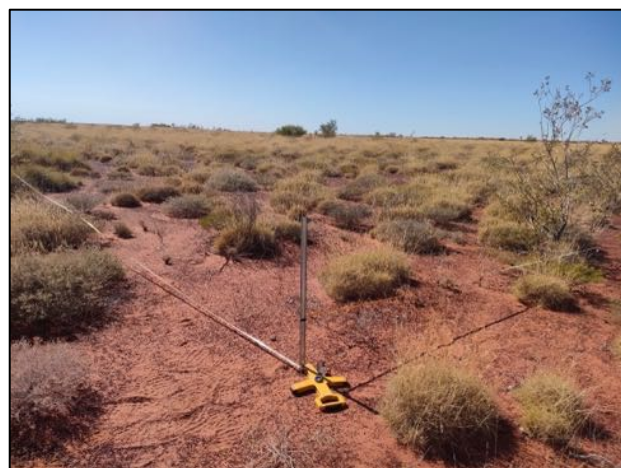
Species	S1 Cover (%)	S1 Height (cm)	S1 Specimen
Acacia ancistrocarpa	0.1	50	
Acacia drepanocarpa subsp. latifolia	1	180	
Acacia monticola	3	150	
Acacia sericophylla	0.1	300	
Acacia tumida var. kulparn	0.1	50	
Amphipogon sericeus	0.1	40	
Aristida inaequiglumis	1.5	80	
Corymbia candida	4	60-80	
Dampiera candidans	0.1	60	
Eragrostis eriopoda	0.1	30	
Eremophila latrobei subsp. glabra	0.1	80	
Eriachne lanata	0.1	50	
Eulalia aurea	5	60	
Goodenia armitiana	0.1	40	
Hakea lorea subsp. lorea	0.1	40	
Hakea macrocarpa	0.1	100	
Halgania solanacea var. solanacea	0.1	30	
Indigofera monophylla	0.1	60	
Jacksonia aculeata	0.1	40	
Paraneurachne muelleri	0.5	40	
Ptilotus astrolasius	0.1	40	
Ptilotus calostachyus	0.1	80	
Abutilon sp.	0.1	40	85-01
Scaevola parvifolia subsp. parvifolia	0.1	20	
Tephrosia arenicola	0.1	70	
Trigastrotheca molluginea	0.1	10	
Triodia brizoides	1	20-80	
Triodia epactia	8	40-120	





Rio Tinto Copper - Winu Project**Site** WIN086**Described by** JW JP**Date** P1 (16/10/2022) P2 (25/06/2023)**Type** Q 50x50**Season** E**Uniformity** Excellent**Location** Texas RC07A**MGA Zone** 51 387538 mE 7692326 mN 121.918906 E -20.865733 S**Habitat** Acacia hillebrandii Shrubland - buckshot plain (R2)**Soil** Shallow sand over clay**Rock Type** Lateritic lag gravel, continuous**Vegetation** Grevillea wickhamii 3m Acacia ancistrocarpa 2m Gyrostemon tepperi 1.5m PFC 1% over Acacia hillebrandii 0.4m Acacia adoxa var. adoxa 0.4m Triodia brizoides 0.4-0.8m Dampiera candidans 0.4m occasional Triodia epactia 1m PFC 35-40%**Veg Condition** Excellent**Fire Age** 10 years +**Notes****SPECIES LIST:**

Species	S1 Cover (%)	S1 Height (cm)	S1 Specimen	S2 Cover (%)	S2 Height (cm)	S2 Specimen
Acacia adoxa var. adoxa	4	40		4	40	
Acacia ancistrocarpa	0.1	170		0.1	170	
Acacia hillebrandii	4	40		4	40	
Acacia sericophylla	out	120		out	120	
Afrohybanthus aurantiacus	0.1	30		0.1	30	
Amphipogon sericeus	0.1	40		0.1	40	
Calytrix carinata	0.1	40-60		0.1	40-60	
Dampiera candidans	0.1	40		0.1	40	
Dicrastylis cordifolia	0.1	40				
Goodenia azurea subsp. hesperia	0.1	40		0.1	40	
Grevillea eriostachya	out	50		out	50	
Grevillea wickhamii subsp. hispidula	0.5	100-300		0.5	100-300	
Gyrostemon tepperi	0.1	140		0.1	140	
Halgania solanacea var. solanacea	0.1	40		0.1	40	
Paraneurachne muelleri	0.1	30				
Ptilotus calostachyus	0.1	40		0.1	40	
Scaevola parvifolia subsp. parvifolia	0.1	20		0.1	20	
Sida arenicola	0.1	60		0.1	60	
Tephrosia arenicola	0.1	50		0.1	50	
Trigastrotheca molluginea	0.1	10		0.1	10	
Triodia brizoides	20	40-80		20	40-80	
Triodia epactia	1	40-120		1	40-120	
Triodia schinzii	out	30-100		out	30-100	





Rio Tinto Copper - Winu Project**Site** WIN087**Described by** JW JP**Date** P1 (16/10/2022) P2 (25/06/2023)**Type** Q 50x50**Season** E**Uniformity** Excellent**Location** Texas RC07A**MGA Zone** 51 387587 mE 7692557 mN 121.919392 E -20.863649 S**Habitat** Eucalyptus odontocarpa Low Mallee Woodland (P16)**Soil** Sand over clay with buckshot lateritic gravel**Rock Type** Subcropping

Vegetation Emergent *Corymbia opaca* 6m woodland over *Eucalyptus odontocarpa* 3-4m low mallee woodland PFC 3-4% with *Hakea lorea* subsp. *lorea* 3m *Grevillea wickhamii* 1-3m *Acacia sericophylla* 1.7m *Acacia ancistrocarpa* 1.5m *Sida arenicola* 1.8m PFC 15% over *Triodia brizoides* (10-12%) *Calytrix carinata* 0.7m *Acacia adoxa* var. *adoxo* 0.4m *Tephrosia arenicola* 0.6m PFC 1-2%

Veg Condition Excellent**Fire Age** 10 years +**Notes****SPECIES LIST:**

Species	S1 Cover (%)	S1 Height (cm)	S1 Specimen	S2 Cover (%)	S2 Height (cm)	S2 Specimen
<i>Abildgaardia oxystachya</i>	0.1	10		0.1	10	
<i>Abutilon otocarpum</i>	0.1	60		0.1	60	
<i>Acacia adoxa</i> var. <i>adoxo</i>	0.1	40		0.1	40	
<i>Acacia ancistrocarpa</i>	0.1	180		0.1	180	
<i>Acacia colei</i> var. <i>colei</i>				0.1	180	
<i>Acacia drepanocarpa</i> subsp. <i>latifolia</i>	0.1	120		0.1	180	
<i>Acacia hilliana</i> × <i>stellaticeps</i>				0.1	40	
<i>Acacia sericophylla</i>	0.1	160-180		0.1	160-180	
<i>Afrohybanthus aurantiacus</i>	0.1	30		0.1	30	
<i>Aristida holathera</i> var. <i>holathera</i>	0.1	40-60		0.1	40-60	
<i>Bonamia erecta</i>	0.1	40		0.1	40	
<i>Calytrix carinata</i>	0.1	70		0.1	70	
<i>Cassytha capillaris</i>	0.1	30		0.1	30	
<i>Corymbia opaca</i>	1	40-50		1	400-500	
<i>Dampiera candidans</i>	0.1	40		0.1	40	
<i>Eragrostis eriopoda</i>	0.1	30		0.1	40	
<i>Eriachne aristidea</i>	0.1	10		0.1	10	
<i>Eriachne helmsii</i>	0.1	40		0.1	40	
<i>Eucalyptus odontocarpa</i>	4	30-40		4	300-400	
<i>Goodenia azurea</i> subsp. <i>hesperia</i>	0.1	40		0.1	40	
<i>Grevillea wickhamii</i> subsp. <i>hispidula</i>	15	30-40		10	300-400	
<i>Gyrostemon tepperi</i>	out	20		out	20	
<i>Hakea loreus</i> subsp. <i>lorea</i>	0.5	30-40		0.5	300-400	
<i>Halgania solanacea</i> var. <i>solanacea</i>	0.1	40		0.1	40	
<i>Indigofera boviparda</i> subsp. <i>eremaea</i>	0.1	40		0.1	40	
<i>Panicum australiense</i> var. <i>australiense</i>	0.1	10		0.1	1	
<i>Paraneurachne muelleri</i>				0.1	40	
<i>Ptilotus astrolasius</i>	0.1	40		0.1	40	
<i>Ptilotus calostachyus</i>	0.1	60		0.1	60	
<i>Seringia exastia</i>	0.1	40		0.1	40	
<i>Solanum diversiflorum</i>	0.1	40		0.1	40	
<i>Tephrosia arenicola</i>	0.1	70		0.1	70	
<i>Trigastroteca molluginea</i>	0.1	10		0.1	10	
<i>Triodia brizoides</i>				12	40-120	
<i>Triodia schinzii</i>	0.1	20-120		0.1	20-120	

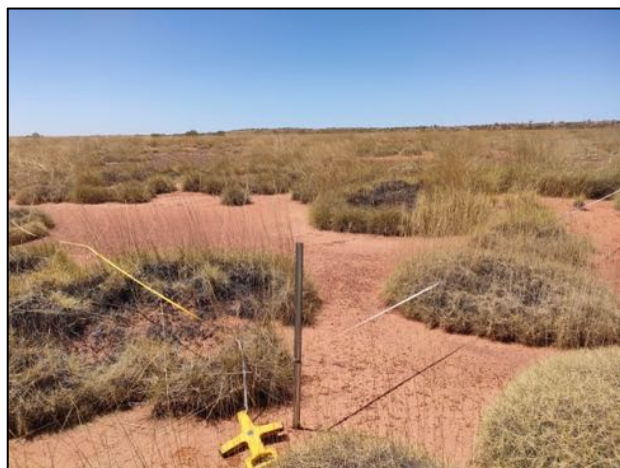


Rio Tinto Copper - Winu Project**Site** WIN088**Described by** JW JP**Date** P1 (16/10/2022) P2 (28/06/2023)**Type** Q 50x50**Season** E**Uniformity** Excellent**Location** Texas RC05**MGA Zone** 51 383023 mE 7692836 mN 121.875544 E -20.860846 S**Habitat** Triodia brizoides Hummock Grassland (C2)**Soil** Shallow orange cream sand over clay**Rock Type** Ironstone lag gravel present.**Vegetation** Acacia bivenosa 0.7-1.1m PFC 1% over Triodia brizoides 0.4-1m and Triodia epactia 0.4-1.3m PFC 18-20% over small annual herbs and grasses inc. Ptilotus exaltatus 0.4m Streptoglossa odora 0.1m Trianthema triquetrum 0.1m ?Brachyachne anisocarpa 0.05m PFC 1%.**Veg Condition** Excellent**Fire Age** Long unburnt**Notes** Triodia epactia occurs on deeper sands which T. brizoides occurs in shallower sands.

?Brachyachne anisocarpa (new taxon) abundance has not been counted in the quadrat.

SPECIES LIST:

Species	S1 Cover (%)	S1 Height (cm)	S1 Specimen	S2 Cover (%)	S2 Height (cm)	S2 Specimen
?Brachyachne anisocarpa (new taxon)	1	10		1	10	88-03
Acacia bivenosa	0.1	60-110		0.1	60-110	
Areocleome oxalidea	0.1	10		0.1	10	88-02
Aristida contorta				0.1	10	
Eulalia aurea	0.1	50		0.1	50	
Gonocarpus eremophilus	0.1	20				
Panicum australiense var. australiense	0.1	10				
Ptilotus exaltatus	0.1	40		0.1	40	88-01
Sporobolus australasicus	0.1	10		0.1	10	
Streptoglossa odora	0.1	10				
Trianthema triquetrum	0.1	10		0.1	1	
Triodia brizoides	12	30-80		12	30-80	
Triodia epactia	10	40-130		10	40-130	





Rio Tinto Copper - Winu Project**Site** WIN089**Described by** JW JP**Date** P1 (16/10/2022) P2 (28/06/2023) **Type** Q 50x50**Season** E**Uniformity** Excellent**Location** Texas RC05**MGA Zone** 51 382990 mE 7692986 mN 121.875237 E -20.859489 S**Habitat** Eucalyptus victrix Open Woodland (C1)**Soil** Grey/cream clay with angular gravel and mud rock**Rock Type****Vegetation** Eucalyptus victrix 4-5m and Corymbia candida 5-6m PFC 3-4% over Acacia ancistrocarpa 1.8m and

Acacia colei var. colie PFC 1% over Eulalia aurea 0.5m (20%) and Triodia epactia (5-10%) PFC 40-50%

Veg Condition Excellent**Fire Age** 10 years +**Notes****SPECIES LIST:**

Species	S1 Cover (%)	S1 Height (cm)	S1 Specimen	S2 Cover (%)	S2 Height (cm)	S2 Specimen
Acacia ancistrocarpa	0.1	180		0.1	180	
Acacia colei var. colie	0.1	200		0.1	200	
Acacia drepanocarpa subsp. latifolia	0.1	50				
Acacia sericophylla	0.1	100		0.1	100	
Aristida holathera var. holathera	0.1	30		0.1	30	
Corymbia candida	1	500		0.1	500	
Eucalyptus victrix	2	500		2	500	
Eulalia aurea	18	50-100		18	50-100	
Fimbristylis depauperata	0.1	30		0.1	30	89-01
Goodenia lamprosperma	0.1	30		0.1	30	
Hakea lorea subsp. lorea	out	300		out	300	
Indigofera monophylla	0.1	120		0.1	120	
Macgregoria racemigera	0.1	10				
Paraneurachne muelleri				0.1	50	
Peplidium muelleri	5	10		2	10	89-02
Triodia epactia	18	30-110		18	30-110	





Rio Tinto Copper - Winu Project**Site** WIN090**Described by** JW JP**Date** P1 (16/10/2022) P2 (25/06/2023)**Type** Q 50x50**Season** E**Uniformity** Excellent**Location** Texas RC09A**MGA Zone** 51 383960 mE 7689696 mN 121.884340 E -20.889272 S**Habitat** Triodia brizoides Hummock Grassland (C2)**Soil** Orange brown clay**Rock Type** Subcropping, ironstone surface gravel**Vegetation** Acacia bivenosa 0.6m Senna artemisioides subsp. oligophylla 0.6m PFC >1% over Triodia brizoides (35%) Triodia epactia PFC 35-40% over Streptoglossa odora 0.2m Sporobolus australasicus 0.1m ?Cynodon anisocarpus 0.05m Ptilotus exaltatus 0.4m Aristida contorta 0.1m**Veg Condition** Excellent**Fire Age** 5 years**Notes****SPECIES LIST:**

Species	S1 Cover (%)	S1 Height (cm)	S1 Specimen	S2 Cover (%)	S2 Height (cm)	S2 Specimen
?Cynodon anisocarpus (P1)	1	5		1	5	90-02
Abutilon otocarpum				0.1	5	90-05
Acacia bivenosa	0.5	50		0.5	50	
Acacia orthocarpa	0.1	50		0.1	50	
Aristida contorta	0.1	10		0.1	10	
Corymbia candida	0.1	30		0.1	30	
Dactyloctenium radulans	0.1	10		0.1	1	
Eragrostis eriopoda	0.1	30		0.1	30	
Euploca chrysocarpum	0.1	10		0.1	10	
Hibiscus leptocladus				0.1	60	90-04
Indigofera monophylla				0.1	60	
Paraneurachne muelleri	0.1	40		0.1	40	
Ptilotus exaltatus	0.1	40		0.1	40	
Senna artemisioides subsp. oligophylla	0.1	50		0.1	50	90-01
Sporobolus australasicus	0.1	10				out
Streptoglossa odora	out	20		out	20	
Trianthema triquetrum	0.1	10		0.1	10	
Tribulus macrocarpus	0.1	10				
Trigastrotrocha molluginea	0.1	10		0.1	10	
Triodia brizoides	35	30-90		35	30-90	90-03
Triodia epactia	0.1	20-120		0.1	20-120	





Rio Tinto Copper - Winu Project**Site** WIN091**Described by** JW JP**Date** 16/10/2022 **Type** Q

50x50

Season E**Uniformity** Excellent**Location** Rimfire RC03**MGA Zone** 51 393786 mE 7699039 mN 121.979369 E -20.805455 S**Habitat** Acacia orthocarpa Shrubland (P4)**Soil** Shallow sand over clay**Rock Type** Subcropping

Vegetation Occasional Owenia reticulata 4-6 <1% over Grevillea wickhamii 3m Acacia orthocarpa 1.8-2m
 Acacia ancistrocarpa 1m PFC 3-10% over Triodia epactia 0.4-1.2m Bonamia erecta 0.4m
 Dicrastylis cordifolia 0.4m Jacksonia aculeata 0.5m Amphipogon sericeus 0.5m Goodenia
 hartiana 0.3m Eriachne lanata 0.3m PFC 20-25%

Veg Condition Excellent**Fire Age** 5 years +**Notes** Site located within Heritage exclusion area, unable to revisit.**SPECIES LIST:**

Species	S1 Cover (%)	S1 Height (cm)	S1 Specimen
Acacia ancistrocarpa	0.1	100	
Acacia monticola	0.1	40	
Acacia orthocarpa	6	40-220	
Amphipogon sericeus	1	50	
Aristida holathera var. holathera	0.1	30	
Aristida holathera var. holathera	0.1	50	
Bonamia erecta	2	40	
Calytrix carinata	0.1	60	
Dampiera candidans	0.1	30	
Dicrastylis cordifolia	0.1	40	
Eragrostis eriopoda	0.1	20	
Eriachne lanata	1	40	
Eriachne obtusa	0.1	50	
Goodenia armitiana	0.1	40	
Goodenia hartiana	1	40	
Grevillea wickhamii subsp. hispidula	1	40-300	
Gyrostemon tepperi	0.1	30-180	
Jacksonia aculeata	0.1	80	
Leptosema anomalum	0.1	30	
Owenia reticulata	8	800	
Paraneurachne muelleri	1	40	
Pimelea ammodarid	0.1	50	
Ptilotus arthrolasius	0.1	20	
Ptilotus astrolasius	0.1	50	
Ptilotus calostachyus	0.1	60	
Scaevola parvifolia subsp. parvifolia	0.1	20	
Trigastrotrocha molluginea	0.1	10	
Triodia epactia	25	40-150	
Triodia schinzii	0.1	40-120	





Rio Tinto Copper - Winu Project**Site** WIN092**Described by****Date**

27/06/2023

Type Q

50x50

Season**Uniformity** Excellent**Location** Rimfire**MGA Zone**

51

394382 mE

7699094 mN

121.985099 E

-20.804992 S

Habitat Acacia orthocarpa Shrubland on sandplain (P4)**Soil** Deep red sand**Rock Type** Unknown, subcropping.

Vegetation Acacia orthocarpa 2-3m with Grevillea wickhamii and occasional Acacia ancistrocarpa 2-3m PFC 10-15% over Triodia schinzii 1.2m (8%) Bonamia erecta 0.3m, Dicrastylis cordifolia 0.3m Indigofera boviparda 0.4m Ptilotus calostachyus 0.5m Eriachne lanata 0.5m Jacksonia aculeata 0.6m Goodenia hartiana 0.5m PFC 30%

Veg Condition Excellent**Fire Age** 5-10 years**Notes****SPECIES LIST:**

Species	S1 Cover (%)	S1 Height (cm)	S1 Specimen
Acacia ancistrocarpa	0.5	160	
Acacia orthocarpa	8	230	
Amphipogon sericeus	0.1	30	
Aristida holathera var. holathera	0.1	30	
Bonamia erecta	2	30	
Calytrix carinata	0.1	40	
Codonocarpus cotinifolius	0.1	220	
Dampiera candidans	2	60	
Dicrastylis cordifolia	0.1	20	
Eragrostis eriopoda	0.1	30	
Eriachne lanata	1	50	
Euploca vestita	0.1	10	92-01
Goodenia armitiana	0.1	10	
Goodenia hartiana	1	30	
Goodenia triodiophila	0.1	30	
Grevillea wickhamii subsp. hispidula	0.5	200	92-02
Gyrostemon tepperi	0.1	50	
Halgania solanacea var. solanacea	0.1	30	
Indigofera boviparda subsp. eremaea	0.1	40	
Leptosema anomalum	0.1	40	
Mirbelia viminalis	0.1	140	
Paraneurachne muelleri	0.1	40	
Ptilotus arthrolasius	0.1	50	
Ptilotus astrolasius	0.1	50	
Ptilotus calostachyus	0.1	40	
Scaevola parvifolia subsp. parvifolia	0.1	20	
Seringia exastia	2	40	
Tephrosia arenicola	0.1	50	
Trigastrotheca molluginea	0.1	20	
Triodia epactia	7	50-120	
Triodia schinzii	9	40-120	





Rio Tinto Copper - Winu Project**Site** WIN093**Described by****Date** 27/06/2023 **Type** Q

50x50

Season E**Uniformity** Excellent**Location** Rimfire**MGA Zone** 51 396260 mE 7697974 mN 122.003076 E -20.815216 S**Habitat** Eucalyptus odontocarpa LMW on low sandy rise. (P16)**Soil** Deep red sand**Rock Type** Unknown, subcropping**Vegetation** Eucalyptus odontocarpa 2.5m Acacia tumida var. kulparn 2m Grevillea wickhamii 2m PFC 10% over Jacksonia aculeata 0.7m Triodia schinzii 1m Acacia stellaticeps 0.4m Bonamia erecta 0.4m PFC 35%.**Veg Condition** Excellent**Fire Age** 5-10**Notes** Leaf litter 3%, Bare ground 40%, Total veg 50%.
Evidence of animal burrows and camel scat.**SPECIES LIST:**

Species	S1 Cover (%)	S1 Height (cm)	S1 Specimen
Acacia ancistrocarpa	0.1	60	
Acacia stellaticeps	0.1	40	
Acacia tumida var. kulparn	3	200	93-06
Aristida holathera var. holathera	0.1	40	
Bonamia erecta	4	30	
Calytrix carinata	0.1	30	
Dicrastylis cordifolia	0.1	20	
Dicrastylis doranii	0.1	20	
Dodonaea coriacea	0.1	40	
Eragrostis eriopoda	0.1	20	
Eriachne lanata	0.1	60	93-04
Eucalyptus odontocarpa	8	200	93-06
Goodenia hartiana	0.1	30	
Grevillea eriostachya	0.1	50	
Grevillea wickhamii subsp. hispidula	0.1	300	93-02
Indigofera boviparda subsp. eremaea	0.1	40	
Jacksonia aculeata	8	70	
Paraneurachne muelleri	0.1	40	
Ptilotus arthrolasius	0.1	30	
Ptilotus astrolasius	0.1	30	
Ptilotus calostachyus	0.1	50	
Corymbia sp. 'Ring stems'	0.1	150	93-03
Scaevola parvifolia subsp. parvifolia	0.1	20	
Senna notabilis	0.1	5	
Trigastrotheca molluginea	0.1	20	
Triodia schinzii	1	100	93-01





Rio Tinto Copper - Winu Project**Site** WIN094**Described by****Date** 27/06/2023 **Type** Q

50x50

Season E**Uniformity** Excellent**Location** Rimfire**MGA Zone** 51 396810 mE 7699634 mN 122.008459 E -20.800249 S**Habitat** Corymbia opaca Open Woodland – Sandplain (P18)**Soil** Red sand over clay. Ferricrete lag gravel in patches.**Rock Type** Unknown, subcropping.**Vegetation** Corymbia opaca 6m PFC 1-2% over Acacia ancistrocarpa 2m Acacia drepanocarpa 3m Acacia sericophylla 3m Grevillea wickhamii subsp. hispidula 2-5m PFC 3-4% over Triodia schinzii 1m Triodia epactia 1m Bonamia erecta 0.3m Ptilotus astrolasius 0.3m PFC 35%.**Veg Condition** Excellent**Fire Age** long unburn**Notes** Litter cover 4%, Bare ground cover 35%, Dead wood cover 5%, total veg. cover 40%.
Some animal holes, many subterranean termite mounds and camel scat.**SPECIES LIST:**

Species	S1 Cover (%)	S1 Height (cm)	S1 Specimen
Acacia ancistrocarpa	1	200	
Acacia drepanocarpa subsp. latifolia	1	300	
Acacia sericophylla	0.1	200	
Amphipogon sericeus	0.1	30	
Androcalva loxophylla	0.1	50	
Aristida holathera var. holathera	0.1	20	
Aristida inaequiglumis	0.1	50	
Boerhavia gardneri	0.1	40	
Bonamia erecta	8	40	
Corymbia opaca	1	600	94-01
Eragrostis eriopoda	0.1	20	
Eriachne lanata	0.1	60	
Eriachne lanata	0.1	30	94-02
Euploca vestita	0.1	20	
Goodenia armitiana	0.1	20	
Goodenia hartiana	0.1	40	
Grevillea wickhamii subsp. hispidula	0.1	350	
Hakea macrocarpa	0.1	100	
Indigofera monophylla	0.1	100	
Leptosema anomalum	0.1	30	
Paraneurachne muelleri	0.1	40	
Ptilotus astrolasius	1	40	
Ptilotus calostachyus	0.1	60	
Scaevola parvifolia subsp. parvifolia	0.1	20	
Tephrosia arenicola	0.1	60	
Trigastroteca molluginea	0.1	20	
Triodia epactia	3	100	
Triodia schinzii	10	100	





Rio Tinto Copper - Winu Project**Site** WIN095**Described by****Date**

28/06/2023

Type Q

50x50

Season E**Uniformity** Excellent**Location** Texas South**MGA Zone** 51 385336 mE 7689629 mN 121.897563 E -20.889963 S**Habitat** Eucalyptus victrix Open Woodland (C1)**Soil** clayey red-brown sand. shale/mudstone lag fragments common on surface**Rock Type** unknown subcropping**Vegetation** Eucalyptus victrix 6m with Corymbia opaca 5m and occasional Corymbia candida 5m PFC10% over Acacia colei var. colei 2m Acacia ancistrocarpa 2.5m PFC 1% over Triodia epactia 0.5-1.3m Eulalia aurea 0.5m Goodenia lamprosperma 0.3m Peplidium muelleri 0.01m PFC 20%**Veg Condition** Excellent**Fire Age** 20+**Notes** 70% bare ground cover, 25% cryptogam cover, 30% total veg cover. Many terminate mounds**SPECIES LIST:**

Species	S1 Cover (%)	S1 Height (cm)	S1 Specimen
Acacia ancistrocarpa	1	300	
Acacia colei var. colei	0.1	200	
Aristida holathera var. holathera	0.1	40	
Corymbia opaca	0.5	600	
Eucalyptus victrix	8	700	
Eulalia aurea	5	90	
Fimbristylis ?depauperata	0.1	10	
Goodenia lamprosperma	0.1	20	
Indigofera monophylla	0.1	100	
Peplidium muelleri	5	5	
Triodia epactia	3	40-130	



Rio Tinto Copper - Winu Project**Site** WIN096**Described by****Date**28/06/2023 **Type** Q

50x50

Season E**Uniformity** Excellent**Location** Texas South**MGA Zone** 51 386985 mE 7688691 mN 121.913355 E -20.898539 S**Habitat** Corymbia opaca Open Woodland – sandplain (P18)**Soil** Deep red sand**Rock Type** Unknown subcropping

Vegetation Corymbia opaca 6m PFC 5% over Acacia orthocarpa 2m Acacia monticola 2m Acacia sericophylla 2m Erythrophleum chlorostachys 2m PFC 5% over Triodia schinzii (10-15%) Ptilotus astrolasius 0.4m Eragrostis eriopoda 0.4m Eriachne lanata 0.4m Paraneurachne muelleri 0.3m Dodonaea coriacea 0.4m PFC 25-30%

Veg Condition Excellent**Fire Age** 10+**Notes** Leaf litter cover 3%, Bare ground cover 35%, Total veg cover 60%.**SPECIES LIST:**

Species	S1 Cover (%)	S1 Height (cm)	S1 Specimen
Acacia ancistrocarpa	0.1	130	
Acacia monticola	0.5	200	
Acacia orthocarpa	1	200	
Acacia sericophylla	0.5	180	
Amphipogon sericeus	0.1	50	
Aristida holathera var. holathera	0.1	30	
Aristida inaequiglumis	0.1	40	
Cassitya capillaris	0.1	10	
Codonocarpus cotinifolius	0.1	60	
Corymbia opaca	3	600	
Dampiera candidans	0.1	20	
Dodonaea coriacea	0.1	40	
Eragrostis eriopoda	1	40	
Eriachne aristidea	0.1	10	
Eriachne aristidea	0.1	30	
Eriachne lanata	0.1	40	
Erythrophleum chlorostachys	0.1	100	
Eulalia aurea	0.1	40	
Evolvulus alsinoides var. villosicalyx	0.1	20	
Goodenia armitiana	0.1	20	
Goodenia triodiophila	0.1	20	
Grevillea wickhamii subsp. hispidula	0.1	160	
Gyrostemon tepperi	0.1	100	
Halgania solanacea var. solanacea	0.1	20	
Paraneurachne muelleri	0.1	30	
Ptilotus astrolasius	4	40	
Ptilotus calostachyus	0.1	50	
Sida arenicola	0.1	150	
Tribulopsis marliesiae	0.1	20	
Trigastrotheca molluginea	0.1	10	
Triodia schinzii	12	50-120	





Rio Tinto Copper - Winu Project**Site** WIN097**Described by****Date**28/06/2023 **Type** Q

50x50

Season**Uniformity** Excellent**Location** Texas North**MGA Zone** 51 379031 mE 7695708 mN 121.837376 E -20.834645 S**Habitat** Corymbia candida Woodland – sandplain (P15b)**Soil** Red sand/ clay, No coarse fragments**Rock Type** Unknown subcropping**Vegetation** Corymbia candida 8-10m PFC 2-5% over Acacia eriopoda 5m Acacia colei var. colei 3-5m
Acacia ancistrocarpa 2m Acacia monticola 3m PFC 22% over Triodia epactia 50-150 (4%)**Sorghum**Plumosum 1.5m (8%) Eriachne lanata 0.5m Pluchea tetranthera 0.6m Aristida holathera var.
holathera 0.4m PFC 30-40%**Veg Condition** Excellent**Fire Age** 10-20yrs**Notes** 10% leaf litter cover, 10 % bare ground cover, 2 % Cryptogam cover, 1 % dead wood. 70% total
veg cover.**SPECIES LIST:**

Species	S1 Cover (%)	S1 Height (cm)	S1 Specimen
Acacia ancistrocarpa	3	200	
Acacia colei var. colei	0.1	100	
Acacia drepanocarpa subsp. latifolia	0.1	250	
Acacia eriopoda	4	500	
Acacia monticola	12	200-300	
Acacia sericophylla	0.1	100	
Amyema sp.	0.1		
Aristida holathera var. holathera	0.1	40	
Aristida inaequiglumis	6	160	
Bonamia alatisemina	0.1	10	
Corymbia candida	3	800	
Dampiera candidans	0.1	20	
Dicrastylis cordifolia	0.1	20	
Eragrostis eriopoda	0.1	40	97-05
Eragrostis eriopoda	0.1	50	
Eriachne lanata	3	50	97-01
Evolvulus alsinoides var. villosicalyx	0.1	20	
Fimbristylis depauperata	0.1	30	97-08
Goodenia armitiana	0.1	30	
Gossypium australe	0.1	100	97-04
Grevillea wickhamii subsp. hispidula	0.1	360	
Hibiscus leptocladus	0.1	30	
Indigofera monophylla	0.1	120	
Jacksonia aculeata	0.1	60	
Paraneurachne muelleri	0.1	30	
Pluchea tetranthera	0.1	60	97-03
Ptilotus astrolasius	0.1	20	
Scaevola parvifolia subsp. parvifolia	0.1	10	
Sida arenicola	0.1	30	
Solanum diversiflorum	0.1	10	
Sorghum plumosum var. plumosum	0.1	40	97-07
Sorghum plumosum var. plumosum	8	150	97-06
Tephrosia arenicola	0.1	50	
Themeda triandra	0.1	100	97-02
Triodia epactia	4	50-150	
Triodia schinzii	0.1	120	
Triodia schinzii	4	50-150	





Rio Tinto Copper - Winu Project**Site** WIN098**Described by****Date**

29/06/2023

Type Q

50x50

Season E**Uniformity** Excellent**Location** Rimfire**MGA Zone** 51 398678 mE 7693565 mN 122.026054 E -20.855183 S**Habitat** Melaleuca lasiandra Shrubland (P19)**Soil** Deep red sand**Rock Type** Unknown, subcropping**Vegetation** Melaleuca lasiandra 1-2m, Acacia tumida var. kulparn 1,5m and Gyrostemon tepperi 1m PFC 10% over Triodia schinzii 0.4-1m, Gompholobium simplicifolium 0.6m Seringia exastia 0.6m Bonamia erecta 0.4m Dicrastylis cordifolia 0.3m PFC 25%.**Veg Condition****Fire Age** 5-10 years**Notes** Leaf litter cover 10%, Bare ground cover 45%, dead wood cover 5%, Total veg cover 35%.**SPECIES LIST:**

Species	S1 Cover (%)	S1 Height (cm)	S1 Specimen
Acacia drepanocarpa subsp. latifolia	0.1	50	
Acacia melleodora	0.1	40	
Acacia monticola	0.1	40	
Acacia tumida var. kulparn	3	100	
Aristida holathera var. holathera	0.1	40	
Bonamia alatisemina	0.1	10	
Bonamia erecta	2	40	
Calytrix carinata	0.1	60	
Corchorus sidoides subsp. sidoides	0.1	30	
Dicrastylis cordifolia	1	30	
Dodonaea coriacea	0.1	40	
Eragrostis eriopoda	0.1	20	
Gompholobium simplicifolium	6	60	
Gyrostemon tepperi	0.1	100	
Hibiscus leptocladus	0.1	40	
Indigofera boviparda subsp. eremaea	0.1	40	
Melaleuca lasiandra	7	200	
Ptilotus arthrolasius	0.1	30	
Ptilotus calostachyus	0.1	50	
Seringia exastia	1	60	
Sida sp. Pindan (B.G. Thomson 3398)	0.1	40	98-01
Triodia schinzii	10	100	



Rio Tinto Copper - Winu Project**Site** WIN099**Described by****Date**

29/06/2023

Type Q

50x50

Season E**Uniformity** Excellent**Location** Rimfire**MGA Zone**

51

400401 mE

7695935 mN

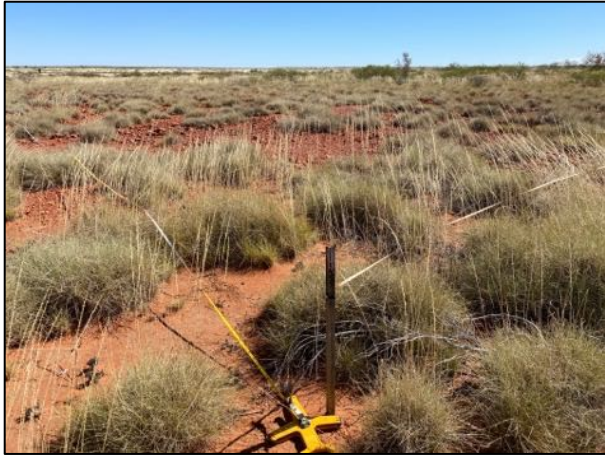
122.042750 E

-20.833864 S

Habitat Triodia epactia Hummock Grassland (R6)**Soil** Red sandy clay. Few coarse lag gravel fragments**Rock Type** Weathered conglomerate, inc. calcareous with rounded quartz gravel.**Vegetation** Grevillea wickhamii 1-3m Acacia monticola 1-1.8m Acacia ancistrocarpa 1m PFC 5-10% over
Triodia epactia 0.4-1m Indigofera monophylla 0.4m Senna artemisioides subsp. helmsii PFC**Veg Condition** Excellent**Fire Age** Long unburnt**Notes** Old track through centre of quadrat.
60% bare ground cover, 40% total veg cover.**SPECIES LIST:**

Species	S1 Cover (%)	S1 Height (cm)	S1 Specimen
Acacia ancistrocarpa	0.1	100	
Acacia monticola	3	150	
Aristida holathera var. holathera	0.1	20	
Boerhavia gardneri	0.1	10	
Bonamia alatisemina	0.1	10	
Corchorus sidoides subsp. sidoides	0.1	40	
Eragrostis eriopoda	0.1	20	
Eremophila latrobei subsp. glabra	0.1	30	99-05
Grevillea wickhamii subsp. hispidula	0.5	250	99-04
Indigofera monophylla	0.1	100	
Portulaca oleracea	0.1	10	99-03
Ptilotus astrolasius	0.1	30	
Ptilotus calostachyus	0.1	20	
Senna artemisioides subsp. helmsii	0.1	50	
Sida arenicola	0.1	40	
Sida sp. Excedentifolia (J.L. Egan 1925)	0.1	10	99-02
Tephrosia arenicola	0.1	100	
Tephrosia simplicifolia	0.1	30	99-01
Trigastrotheca molluginea	0.1	10	
Triodia epactia	20	100	





Rio Tinto Copper - Winu Project**Site** WIN0100**Described by****Date**29/06/2023 **Type** Q

50x50

Season E**Uniformity** Excellent**Location** Rimfire**MGA Zone** 51 398711 mE 7698503 mN 122.026658 E -20.810572 S**Habitat** A. drepanocarpa & T. schinzii (P3)**Soil** Red sand. Few coarse ferricrete fragments (2-5mm)**Rock Type** Unknown, subcropping**Vegetation** Emergent Owenia reticulata 4-6m PFC <1% over Grevillea wickhamii subsp. hispidula 2-3m**Acacia**

drepanocarpa subsp. latifolia 1-2m Acacia monticola 1-2m PFC 20% over Triodia schinzii 0.3-1.5m (20%) with Calytrix carinata 0.5m Goodenia hartiana 0.4m Jacksonia aculeata 0.5m

Dicrastylis

cordifolia 0.4m Amphipogon sericeus 0.5m PFC 35-40%.

Veg Condition Excellent**Fire Age** 5+**Notes** Leaf litter cover 1 %, Brae ground cover 45%, Dead wood cover 1%.**SPECIES LIST:**

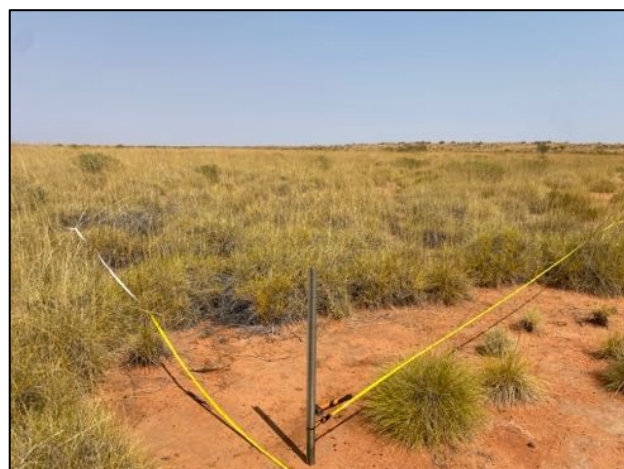
Species	Phase 1			Phase 2			Comments
	Cover (%)	Height (cm)	Specimen	Cover (%)	Height (cm)	Specimen	
Acacia drepanocarpa subsp. latifolia	8	180		8	180		
Acacia monticola	8	180		8	180		
Amphipogon sericeus	1	30		1	30		
Bonamia ?alatisemina	0.1	10		0.1	10	100-P2-01	
Bonamia erecta	0.1	40		0.1	40		
Calytrix carinata	0.1	60		0.1	60		
Dampiera candidans	0.1	40		0.1	40		
Dicrastylis cordifolia	0.1	30		0.1	30		
Dodonaea coriacea				0.1	20		
Eriachne lanata	0.1	40		0.1	40		
Goodenia hartiana	1	40		1	40		
Goodenia triodiophila	0.1	30					
Grevillea wickhamii subsp. hispidula	1	300		1	300		
Jacksonia aculeata	0.1	100		0.1	100		
Mirbelia viminalis	0.1	50		0.1	50		
Newcastelia spodiostriata	0.1	40					
Owenia reticulata	0.1	100		0.1	100		
Ptilotus arthrolasius	0.1	20		0.1	20		
Ptilotus astrolasius	0.1	30		0.1	30		
Ptilotus calostachyus	0.1	60			60		
Scaevola parvifolia subsp. parvifolia	0.1	10		0.1	10		
Sida sp. Pindan (B.G. Thomson 3398)				0.1	30		
Trigastrotheca molluginea				0.1	10		
Triodia schinzii	23	100		23	100		

Rio Tinto Winu - Winu Project**Site** WIN0101**Described by** P1 JP LS P2 JP LS**Date** P1 25/10/2023 P2 22/03/2024**Type** Q

50x50

Season E**Uniformity** Excellent**Location** Texas North**MGA Zone** 51 383487 mE 7692798 mN 121.880000 E -20.86129091 S**Habitat** C3 Acacia bivenosa – Acacia stellaticeps Shrubland over low spinifex hummock grassland on claypan**Soil** Orange sandy clay**Rock Type** Unknown, sub cropping; discontinuous lateritic lag gravel**Vegetation** Isolated Acacia ancistrocarpa 3m over Acacia bivenosa 1.5m PFC 1% over Acacia stellaticeps 0.6m Triodia epactia 0.4-1.2n PFC 20% with Amphipogon sericeus, Mirbelia viminalis and Brachyachne anisocarpa.**Veg Condition** Excellent**Fire Age** Unknown**Notes** Leaf litter cover 1 %, Bare ground cover 86%, Dead wood cover 1%.**SPECIES LIST:**

Species	Phase 1			Phase 2			Comments
	Cover (%)	Height (cm)	Specimen	Cover (%)	Height (cm)	Specimen	
?Brachyachne anisocarpa	2	0.15		0.5	5		N=1148
Acacia bivenosa	3	1.2		2.5	120		
Acacia sphaerostachya	0.1	0.4	Q101-01	0.1	40	Q101-04	
Acacia stellaticeps	3	0.6		2.5	60		
Aristida holathera var. holathera	0.1	0.2		0.1	10		Dead
Bulbostylis barbata				0.1	1	Q101-01	
Cassytha capillaris	0.1	0.2		0.1	30		
Dampiera candidans	0.1	0.5					
Eragrostis eriopoda	0.1	0.4		0.1	40		
Eulalia aurea	0.1	0.5		0.1	10		
Fimbristylis ?dichotoma				0.1	20	Q101-06	
Grevillea wickhamii	1	0.7		0.1	50		
Hakea macrocarpa	0.1	0.7		0.1	70		
Ptilotus exaltatus	0.1	0.2		0.1	10		
Unknown sp. Indet (Poaceae)	0.1	0.05	Q101-04				Dead
?Euphorbia sp. Indet				0.1	5	Q101-02	
Sporobolus australasicus	0.1	0.15					Dead
Streptoglossa odora	0.1	0.2	Q101-03				Dead
Trianthema triquetrum	0.1	0.05		0.1	5	Q101-05	Dead
Trianthema triquetrum	0.1	0.1	Q101-02	0.1	5		Dead
Trigastrotheca molluginea	0.1	0.1		0.1	10		Dead
Triodia brizoides	0.1	0.6		0.1	50		
Triodia epactia	15	0.2-1.2		18	150		





Rio Tinto Winu - Winu Project**Site** WIN0102**Described by** P1 JP LS P2 JP**Date** P2 25/10/2023 P2 21/03/2024**Type** Q

50x50

Season E**Uniformity** Excellent**Location** Texas North**MGA Zone** 51 380547 mE 7692859 mN 121.851748 E -20.86055259 S**Habitat** D1 Sand dune with *Corymbia chippendalei***Soil** Deep red sand**Rock Type** Unknown, sub cropping. No surface fragments

Vegetation Scattered *Corymbia chippendalei* 4m with occasional *Owenia reticulata* 5m PFC 1% over *Grevillea stenobotrya* 2m *Acacia platycarpa* 1.6m *Thinicola incana* 1.5m *Gyrostemon tepperi* 1m PFC 5% *Sida* sp. Western sand dunes (P.K. Latz 11980) 1m over *Gompholobium simplicifolium* 1m *Dampiera cinerea* 0.6m *Dicrastylis doranii* 0.6m *Aristida holathera* var. *holathera* 0.4m *Triodia schinzii* 0.3-1m *Eriachne aristidea* 0.3m *Indigofera ammobia* 0.5m PFC 10-15%

Veg Condition Excellent**Fire Age** 10 years**Notes****SPECIES LIST:**

Species	Phase 1			Phase 2			Comments
	Cover (%)	Height (cm)	Specimen	Cover (%)	Height (cm)	Specimen	
<i>Acacia platycarpa</i> 'Desert Form Non-pruinose'	1.5	1.7		1.5	1.7		
<i>Acacia platycarpa</i> 'Desert Form Pruinose'	1.5	1.5		1.5	1.5		
<i>Acacia sabulosa</i>	0.1	1.5		0.1	1.5		
<i>Amphipogon sericeus</i>	0.1	0.4		0.1	0.4		
<i>Aristida holathera</i> var. <i>holathera</i>	3	0.3		3	0.3		
<i>Calytrix carinata</i>	0.1	1.5		0.1	1.5		
<i>Corymbia chippendalei</i>	0.1	2.5		0.1	2.5		
<i>Cucumis variabilis</i>	0.1	0.5					
<i>Cyanostegia cyanocalyx</i>				0.1	30		
<i>Dampiera cinerea</i>	2	0.4		2	0.4		
<i>Dicrastylis doranii</i>	5	0.6		5	0.6		
<i>Dicrastylis doranii</i>				0.1	30	102-P2-01	
<i>Eragrostis eriopoda</i>	0.1	0.3		0.1	0.3		
<i>Eriachne aristidea</i>	2	0.4		2	0.4		
<i>Eriachne lanata</i>	0.1	0.4		0.1	0.4		
<i>Eriachne mucronata</i>	0.1	0.4		0.1	0.4		
<i>Euphorbia myrtoides</i>	0.1	0.2		0.1	0.2		
<i>Gompholobium simplicifolium</i>	1.5	1		2.5	1		
<i>Grevillea eriostachya</i>	0.1	1.5		0.1	1.5		
<i>Grevillea stenobotrya</i>	0.5	1.6		0.5	1.6		
<i>Grevillea wickhamii</i>	0.1	1.6		0.1	1.6		
<i>Gyrostemon tepperi</i>	0.1	1.6		0.1	1.6		Dead
<i>Halgania solanacea</i> var. <i>solanacea</i>	0.1	0.3		0.1	0.3		
<i>Indigofera ammobia</i>	0.1	0.3		0.1	0.3		
<i>Jacksonia aculeata</i>	0.1	0.6		0.1	0.6		
<i>Newcastelia cladotricha</i>	0.1	0.4	Q102-01	0.1	0.4	102-P2-02	
<i>Orianthera centralis</i>				0.1	50	102-P2-03	
<i>Paranotis pterospora</i>	0.1	0.1					
<i>Polygala isingii</i>	0.1	0.1	Q102-02				
<i>Scaevola parvifolia</i> subsp. <i>parvifolia</i>	0.1	0.2		0.1	0.2		
<i>Sida arenicola</i>	0.1	0.5					
<i>Sida</i> sp. Western sand dunes (P.K. Latz 11980)	0.1	1		0.1	1		
<i>Thinicola incana</i>	0.1	1.2		0.1	1.2		
<i>Triodia schinzii</i>	3	0.4-1.3		6	0.4-1.3		



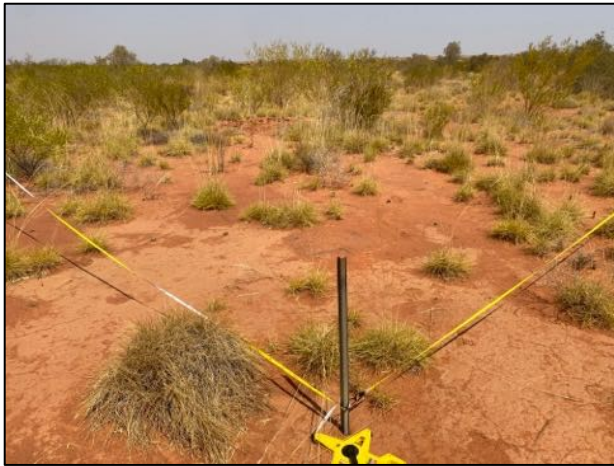


Rio Tinto Winu - Winu Project**Site** WIN0103**Described by** P1 JP LS P2 JP**Date** P1 26/10/2023 P2 21/03/2024**Type** Q

50x50

Season E**Uniformity** Excellent**Location** Texas North**MGA Zone** 51 382775 mE 7692328 mN 121.873126 E -20.86549199 S**Habitat** Flats below dune (P19 – Melaleuca lasiandra low open Shrubland over Triodia schinzii)**Soil** Red clayey sand**Rock Type** Unknown, sub cropping. No surface fragments**Vegetation** Melaleuca lasiandra 3m and Acacia monticola 2m with Acacia drepanocarpa PFC 8-10% over Triodia schinzii 0.5m Triodia epactia 1.5m Jacksonia aculeata and Dampiera candidans 0.4m PFC 10-12 Leptosema anomalum, Eriachne lanata and Amphipogon sericeus 0.4m PFC 10-30%**Veg Condition** Excellent**Fire Age** 5 years**Notes****SPECIES LIST:**

Species	Phase 1			Phase 2			Comments
	Cover (%)	Height (cm)	Specimen	Cover (%)	Height (cm)	Specimen	
Acacia ancistrocarpa	2	150	Q103-04	1	150		
Acacia drepanocarpa subsp. latifolia	1	200		1	200		
Acacia monticola	3	200		3	160		
Acacia stellaticeps				0.1	25	103-01	
?Amphipogon sericeus	0.1	10	Q103-01	0.1	10		
Amphipogon sericeus	0.1	30		0.1	30		
Bonamia erecta				0.1	100		
Calytrix carinata	0.1	5		0.1	50		
Cassytha capillaris	0.1	10		0.1	10		
Dampiera candidans	0.5	50		0.5	50		
Dicrastylis cordifolia	0.1	30		0.1	30		
Eragrostis eriopoda	0.1	25		0.1	30		
Eriachne ?helmsii				0.1	40	103-03	
Eriachne lanata	0.1	50					
Goodenia armitiana	0.1	10	Dead				
Jacksonia aculeata	2.5	60		1	60		
Leptosema anomalum	0.1	30		0.1	30		
Melaleuca lasiandra	4	300		4	300		
Paraneurachne muelleri				0.1	20		
Ptilotus calostachyus	0.1	70		0.1	70		Dead
Sida arenicola	0.1	20		0.1	20		
Sida sp. Pindan (B.G. Thomson 3398)	0.1	100		0.1	50	103-04	
Triodia epactia	3	60		4	100		
Triodia schinzii	3	160		4	150		
Triodia scintillans				0.1	60	103-02	



Rio Tinto Winu - Winu Project**Site** WIN0104**Described by** P1 JP LS P2 LS**Date** P1 26/10/2023 P2 21/03/2024**Type** Q

50x50

Season E**Uniformity** Excellent**Location** Texas North**MGA Zone** 51 383378 mE 7692151 mN 121.878909 E -20.86712908 S**Habitat** P22 Acacia stipuligera**Soil** Deep red sand**Rock Type** Unknown, sub cropping. No surface fragments**Vegetation** Acacia stipuligera 3m with occasional Melaleuca lasiandra 3m PFC 20% over Acacia drepanocarpa 1.5m Mirbelia viminalis 1m Jacksonia aculeata 0.6m Triodia schinzii 0.5-1.5m Aristida holathera 0.4m PFC 15-20%.**Veg Condition** Excellent**Fire Age** 10+ years**Notes****SPECIES LIST:**

Species	Phase 1			Phase 2			Comments
	Cover (%)	Height (cm)	Specimen	Cover (%)	Height (cm)	Specimen	
Acacia drepanocarpa subsp. latifolia	0.1	90		0.1	90		
Acacia stipuligera	2.5	320		3.5	320		
Aristida holathera var. holathera	0.1	40		0.1	40		
Bulbostylis barbata				0.1	1	104-03	
Cassytha capillaris	0.1	30					
Dampiera candidans	0.1	30		0.1	30		
Eragrostis eriopoda	0.1	20					
Eriachne ?helmsii				0.1	30	104-02	
Eriachne lanata	0.1	30					
Fimbristylis ?depauperata	0.1	20	Q104-0.1	0.1	40	104-01	
Goodenia armitiana	0.1	10					
Grevillea wickhamii				0.1	25		Regrowth
Jacksonia aculeata	0.1	40		0.1	120		
Leptosema anomalum	0.1	10		0.1	20		
Melaleuca lasiandra	2	200		2	250		
Mirbelia viminalis	0.1	100		0.1	100		
Unknown sp. Indet (Poaceae)				0.1	50	104-04	
Sida sp. Pindan (B.G. Thomson 3398)	0.1	50					
Trigastrotheca molluginea	0.1	10		0.1	10		
Triodia schinzii	15	50-150		17	100		





Rio Tinto Winu - Winu Project**Site** WIN0105**Described by** P1 JP LS P2 JP**Date** P1 27/10/2023 P2 20/03/2024**Type** Q

50x50

Season E**Uniformity** Excellent**Location** Texas South**MGA Zone** 51 386494 mE 7688212 mN 121.908602 E -20.90290809 S**Habitat** P21 Acacia sericophylla shrubland**Soil** Deep red sand**Rock Type** Unknown, sub cropping. No surface fragments**Vegetation** Acacia sericophylla 2.5m with occasional Erythrophleum chlorostachys 2m PFC 10% over Triodia schinzii 0.5-1.2m PFC 15% with Indigofera boviparda subsp. eremaea 0.4 Tribulopsis marliesiae 0.1m Scaevola parviflora 0.2m Amphipogon sericeus 0.4m PFC 5%**Veg Condition** Excellent**Fire Age** 10+ years**Notes** Quadrat is species-poor with lots of dead grasses.**SPECIES LIST:**

Species	Phase 1			Phase 2			Comments
	Cover (%)	Height (cm)	Specimen	Cover (%)	Height (cm)	Specimen	
Acacia sericophylla	10	250		10	250		
Amphipogon sericeus	0.1	60		0.1	60		
Aristida holathera var. holathera	0.1	30					
Bonamia alatisemina	0.1	10		0.1	10		
Calytrix carinata	0.1	50		0.1	50		
Eragrostis eriopoda	0.1	20		0.1	20		
Erythrophleum chlorostachys	1	200		1	200		
Grevillea wickhamii	0.1	40					
Gyrostemon tepperi	0.1	10					
Indigofera boviparda subsp. eremaea	0.1	40		0.1	40		
Jacksonia aculeata	0.1	10		0.1	10		
Newcastelia cladotricha	0.1	50	Q105-01				
Ptilotus arthrolasius	0.1	20		0.1	20		
Scaevola parvifolia subsp. parvifolia	0.1	20					
Tribulopsis marliesiae	0.1	10		0.1	10		N=2
Trigastrotheca molluginea	0.1	10					
Triodia schinzii	15	50-120		20	50-120		





Rio Tinto Winu - Winu Project**Site** WIN0106**Described by** P1 JP LS P2 JP**Date** P1 27/10/2023 P2 21/03/2024**Type** Q

50x50

Season E**Uniformity** Excellent**Location** Texas South**MGA Zone** 51 382591 mE 7689589 mN 121.871172 E -20.89022450 S**Habitat** C1 Eucalyptus victrix Woodland**Soil** Deep pale red sand**Rock Type** Unknown, sub cropping. No surface fragments**Vegetation** Eucalyptus victrix 3-8m PFC 1-2% over Acacia coleii 2.5m Acacia ancistrocarpa 2m Acacia orthocarpa 1.5m Acacia sericophylla 1.5m PFC 5-8% over Triodia epactia 1.2m Acacia bivenosa 1m Eulalia aurea 0.5m Indigofera monophylla 1m Grevillea wickhamii 3m PFC 50%.**Veg Condition** Excellent**Fire Age** 10+ years**Notes** Small strip of vegetation with evident edge effects from adjacent D2 and P5 Vegetation**Associations****SPECIES LIST:**

Species	Phase 1			Phase 2			Comments
	Cover (%)	Height (cm)	Specimen	Cover (%)	Height (cm)	Specimen	
Abildgaardia oxystachya				0.1	10		
Acacia adsurgens				0.1	80	105-P2-04	
Acacia ancistrocarpa	0.5	200		0.5	200		
Acacia bivenosa	0.5	100		2	100		
Acacia coleii var. coleii	1	250		1	250		
Acacia orthocarpa	0.1	200		0.1	200		
Acacia sericophylla	0.1	150		0.1	150		
Areocleome oxalidea				0.1	1		
Aristida holathera var. holathera	4	40		4	40		
Aristida inaequiglumis	0.1	80		0.1	80		
Arivela viscosa				0.1	20		
Boerhavia ?gardneri				0.1	5		
Bonamia alatisemina				0.1	20		
Bulbostylis barbata				0.1	5	106-P2-02	
Cassytha capillaris	0.1	20					
Corchorus sidoides subsp. sidoides	0.1	20		0.1	20		
Corynothea gracilis	0.1	150	Q106-02				
Dactyloctenium radulans				0.1	20		
Dampiera candidans	0.1	30		0.1	30		
Eragrostis eriopoda	0.1	30		0.5	30	106-P2-01	
Eriachne ?obtusa	0.1	50		0.1	50	106-P2-03	
Eucalyptus victrix	2	800		2	800		
Eulalia aurea	30	50		30	50		
Euploca diversifolia				0.1	10	106-P2-08	
Evolvulus alsinoides var. villosicalyx	0.1	10		0.1	10		
Fimbristylis dichotoma				0.1	20	106-P2-05	
Goodenia armitiana	0.1	20		0.1	20		
Gossypium australe	0.1	110		0.1	110		
Grevillea wickhamii	0.5	300		0.5	300		
Hibiscus leptocladus	0.1	90		0.1	90		
Indigofera monophylla	0.1	100		0.1	100		
Leptosema anomalum	0.1	40		0.1	40		
Panicum australiense var. australiense	0.1	10		0.1	10		
Paraneurachne muelleri	2	40		2	40		
Paranotis pterospora	0.1	20	Q106-01	0.1	20		
Polygala isingii				0.1	5	106-P2-07	
Ptilotus astrolasius	0.1	10					
Ptilotus calostachyus				0.1	2		
Senna artemisioides subsp. helmsii	0.1	40					
Sporobolus australasicus				0.1	1		
Tribulus hirsutus				0.1	10	106-P2-06	
Trigastrotheca molluginea	0.1	10		0.1	10		

Triodia epactia	20	40-120		20	40-120		
Zornia albiflora	0.1	20		0.1	20		



Rio Tinto Winu - Winu Project**Site** WIN0107**Described by** P1 JP LS P2 LS**Date** P1 27/10/2023 P2 20/03/2024**Type** Q

50x50

Season E**Uniformity** Excellent**Location** Texas South**MGA Zone** 51 381381 mE 7690753 mN 121.859620 E -20.87963176 S**Habitat** P14 – Acacia monticola Shrubland**Soil** Red sand.**Rock Type** Unknown, sub cropping. No surface fragments**Vegetation** Acacia monticola 1.5m with occasional Acacia ancistrocarpa 2m PFC 10-12% over Triodia schinzii 20% Eriachne lanata 0.4m Amphipogon sericeus 0.3m Halgania solanacea 0.2m Eragrostis eriopoda 0.3m and Dampiera candidans 0.5m**Veg Condition** Excellent**Fire Age** 10+ years**Notes****SPECIES LIST:**

Species	Phase 1			Phase 2			Comments
	Cover (%)	Height (cm)	Specimen	Cover (%)	Height (cm)	Specimen	
Acacia ancistrocarpa	0.1	50		0.1	100		
Acacia colei var. colei	0.1	20					
Acacia drepanocarpa subsp. latifolia				0.1	40	107-03	
Acacia monticola	10	160		10	160		
Amphipogon sericeus	2	20		2	50		
Aristida holathera var. holathera	0.1	30		0.1	20		
Bonamia alatisemina	0.1	10		0.1	10		
Calytrix carinata	0.1	40		0.1	60		
Cassytha capillaris				0.1	20		
Corchorus sidoides subsp. sidoides				0.1	40		
Dampiera candidans	3	30	Dead				
Dicrastylis cordifolia	0.1	30		0.1	30		
Dodonaea coriacea				0.1	40		
Eragrostis eriopoda				0.1	10	107-04	
Eragrostis eriopoda	0.1	20		0.1	20		
Eriachne helmsii	0.1	40	Q107-01	0.1	40	107-01	
Eriachne lanata	0.1	50				107-05	
Goodenia triodiophila				0.1	30		
Halgania solanacea var. solanacea	0.1	40		0.1	40		
Newcastelia spodioptricha	0.1	20					
Ptilotus calostachyus	0.1	40		0.1	50		
Scaevola parvifolia subsp. parvifolia	0.1	20		0.1	30		
Sida arenicola	0.1	40		0.1	100		
Sida arenicola				0.1	10	107-02	
Sida sp. Pindan (B.G. Thomson 3398)				0.1	10	107-06	
Streptoglossa macrocephala	0.1	40					
Trigastroteca molluginea	0.1	20		0.1	30		
Triodia brizoides	0.1	30		2	50		
Triodia schinzii	25	40-120		25	120		



Rio Tinto Winu - Winu Project**Site** WIN0108**Described by** P1 JP LS P2 LS**Date** P1 28/10/2023 P2 20/03/2024**Type** Q

50x50

Season E**Uniformity** Excellent**Location** Texas South**MGA Zone** 51 384250 mE 7688960 mN 121.887078 E -20.89601148 S**Habitat** P8 – Acacia eriopoda**Soil** Red sand.**Rock Type** Unknown, sub cropping. No surface fragments**Vegetation** Acacia eriopoda 3m PFC 10% with occasional Owenia reticulata 6m over Acacia ancistrocarpa 1.5m Hakea macrocarpa 1m Grevillea wickhamii 2m over Triodia schinzii 0.3-1.4 (20%) Triodia epactia 0.3-1.2m (20%) Dampiera candidans 0.3m Seringia exastia 0.4m Dicrastylis cordifolia 0.3m Eragrostis eriopoda PFC 45%**Veg Condition** Excellent**Fire Age** 10+ years**Notes****SPECIES LIST:**

Species	Phase 1			Phase 2			Comments
	Cover (%)	Height (cm)	Specimen	Cover (%)	Height (cm)	Specimen	
Acacia ancistrocarpa	1	100		1	200		
Acacia colei var. colei	1.5	30		0.1	100		
Acacia eriopoda	10	200-300	Q108-02	10	300		
Acacia stellaticeps	0.1	30		0.1	30		
Aristida inaequiglumis	0.1	120					
Bonamia alatisemina	0.1	10		0.1	30		
Bonamia erecta	0.1	40		0.1	40		
Cassutha capillaris	0.1	10		0.1	30		
Dampiera candidans	1	40		0.1	40		
Dicrastylis cordifolia	0.1	20		0.1	30		
Dodonaea coriacea	0.1	40		0.1	40		
Eragrostis eriopoda	0.1	20		0.1	40		
Eriachne lanata	0.1	50					
Eulalia aurea	0.1	40		0.1	40		
Euploca ?vestita	0.1	40	Q108-01	0.1	20		Dead
Goodenia armitiana	0.1	20	Dead	0.1	10		Alive
Grevillea wickhamii	0.1	100		0.1	100		
Hakea macrocarpa	1	150		1	150		
Halgania solanacea var. solanacea	0.1	40		0.1	40		
Hibiscus leptocladus	0.1	20		0.1	20		
Leptosema anomalum	0.1	30		0.1	10		
Paraneurachne muelleri	0.1	20		0.1	20		
Ptilotus astrolasius	0.1	40					
Ptilotus fusiformis	0.1	20					
Scaevola parvifolia subsp. parvifolia	0.1	20					
Seringia exastia	0.1	50		0.5	50		
Sida arenicola	0.1	110		0.1	100		
Tephrosia arenicola	0.1	30		0.1	50		
Trigastrotheca molluginea	0.1	10		0.1	10		
Triodia epactia	20	30-120		20	120		
Triodia schinzii	20	30-120		20	150		



Rio Tinto Winu - Winu Project**Site** WIN0109**Described by** P1 JP LS P2 LS**Date** P1 28/10/2023 P2 21/03/2024**Type** Q

50x50

Season E**Uniformity** Excellent**Location** Texas North**MGA Zone** 51 379697 mE 7696060 mN 121.843799 E -20.83157988 S**Habitat** P10c – Corymbia zygophylla Woodland**Soil** Red sand.**Rock Type** Unknown, sub cropping. No surface fragments**Vegetation** Corymbia zygophylla 2-5m PFC 10% over Acacia ancistrocarpa 1-3m Acacia drepanocarpa 1.5m Hakea macrocarpa 1.5m Acacia platycarpa 1m Petalostylis cassioides 1-2m PFC 8% over Triodia schinzii 50% 0.5-1.5m with Jacksonia aculeata 0.4m Eriachne lanata 0.3m Seringia exastia 0.4m and Goodenia hartiana 0.2m**Veg Condition** Excellent**Fire Age** 10+ years**Notes****SPECIES LIST:**

Species	Phase 1			Phase 2			Comments
	Cover (%)	Height (cm)	Specimen	Cover (%)	Height (cm)	Specimen	
Abildgaardia oxystachya				0.1	10		
Acacia ancistrocarpa	5	100-300		5	100-300		
Acacia drepanocarpa subsp. latifolia	1	150		1	150		
Acacia monticola	0.1	200		0.1	200		
Acacia platycarpa 'Desert Form Pruinose'	1	150		1	150		
Acacia sericophylla	0.1	100		0.1	100		
Afrohybanthus aurantiacus				0.1	40		
Amphipogon sericeus	0.1	40		0.1	40		
Androcalva loxophylla	0.1	80		0.1	80	109-P2-02	
Aristida holathera var. holathera	0.1	40					
Bonamia alatisemina	0.1	10		0.1	10		
Calytrix carinata	0.1	50		0.1	50		
Cassytha capillaris	0.1	10		0.1	10		
Corymbia zygophylla	10	500	Q109-02	10	500		
Dampiera candidans	0.1	40					
Dicrastylis cordifolia				0.1	40		
Dodonaea coriacea	0.1	50		0.1	50		
Dodonaea hispidula var. arida				0.1	90	Q109-P2-03	
Eriachne lanata	0.1	30		0.1	30		
Eriachne mucronata	0.1	60		0.1	60		
Gompholobium simplicifolium	0.1	30		0.1	30		
Goodenia hartiana	0.1	30	N=32	0.1	30		
Hakea lorea subsp. lorea	0.1	40					
Hakea macrocarpa	0.1	150		0.1	150		
Halgania solanacea var. solanacea				0.1	30		
Jacksonia aculeata	0.1	70		0.1	70		
Newcastelia spodioptricha	0.1	40					
Orianthera centralis	0.1	30		0.1	30		
Paraneurachne muelleri				0.1	20		
Petalostylis cassioides	0.1	120		0.1	120	Q109-P2-04	
Polygala isingii	0.1	20					
Ptilotus arthrolasius				0.1	40		
Ptilotus astrolasius	0.1	50		0.1	50		
Ptilotus calostachyus	0.1	30					
Scaevola parvifolia subsp. parvifolia	0.1	20		0.1	20	109-P2-01	
Seringia exastia	0.5	50		0.5	50		
Trigastrotheca molluginea	0.1	10		0.1	10		
Triodia schinzii	50	40-150		50	40-150		



Rio Tinto Winu - Winu Project**Site** WIN0110**Described by** LS**Date** 28/10/2023 **Type** Q

50x50

Season E**Uniformity** Excellent**Location** Texas North**MGA Zone** 51 381623 mE 7695140 mN 121.862244 E -20.84001507 S**Habitat** P22 – Acacia stipuligera Shrubland**Soil** Deep red sand.**Rock Type** Unknown, sub cropping. No surface fragments**Vegetation** Acacia stipuligera 2m (8-15%) Acacia drepanocarpa 1.5m Acacia sericophylla 1m over Triodia schinzii 1-1.5m Triodia epactia 1-1.5m 20% over Indigofera monophylla 0.5m Tephrosia arenicola 0.5m Halgania solanacea 0.3m Bonamia erecta 0.3m PFC 5%.**Veg Condition** Excellent**Fire Age** 10+ years**Notes**

Species	S1 Cover (%)	S1 Height (cm)	S1 Specimen	Comments
Abildgaardia oxystachya	0.1	0.1	Q110-04	
Abutilon otocarpum	0.1	0.4	Q110-10	
Acacia drepanocarpa subsp. latifolia	0.5	1.5		
Acacia sericophylla	1	1		
Acacia stipuligera	8	2		
Aristida holathera var. holathera	0.5	0.2		
Arivela viscosa	0.1	0.3	Dead	
Boerhavia gardneri	0.1	0.2	Dead	
Bonamia erecta	0.1	0.4		
Dodonaea coriacea	0.1	0.15	Dead	
Eragrostis eriopoda	0.1	0.3		
Eriachne aristidea	0.1	0.15		
Eriachne obtusa	0.1	0.15	Q110-02	
Euphorbia myrtoides	0.1	0.1	Dead	
Euploca diversifolia	0.1	0.1	Q110-08, Dead	
Evolvulus alsinoides var. villosicalyx	0.1	0.1	Dead	
Goodenia armitiana	0.1	0.2		
Halgania solanacea var. solanacea	0.1	0.4		
Indigofera monophylla	1	1	Q110-01	
Jacksonia aculeata	0.1	0.15		
Panicum australiense var. australiense	0.1	0.1	Q110-03	
Ptilotus astrolasius	0.1	0.3		
Sida arenicola	0.1	1.5		
Sida sp. Articulation below (A.A. Mitchell PRP 1605)	0.1	0.3	Q110-07	
Sida sp. Pilbara (A.A. Mitchell PRP 1543)	0.1	0.2	Q110-06	
Tephrosia arenicola	0.1	0.5		
Tephrosia sp. Indet.	0.1	0.1	Q110-05	
Trianthema pilosum	0.1	0.1	Dead	
Triodia epactia	4	1.5		
Triodia schinzii	10	1.5		
Zornia albiflora	0.1	0.25	Q110-09	



Rio Tinto Winu - Winu Project**Site** WIN0111**Described by** P1 JP LS P2 LS**Date** P1 28/10/2023 P2 21/03/2024**Type** Q

50x50

Season E**Uniformity** Excellent**Location** Texas North**MGA Zone** 51 381341 mE 7695547 mN 121.859562 E -20.83632020 S**Habitat** C3 – Triodia epactia Hummock Grassland**Soil** Deep red sand.**Rock Type** Unknown, sub cropping.

Vegetation Triodia epactia 1-1.5m and Triodia schinzii 1-1.5m with occasional Acacia ancistrocarpa 2m Grevillea wickhamii PFC 50% over Acacia stellaticeps 1m Acacia bivenosa 1m Jacksonia aculeata 0.7m Streptoglossa macrocephala 0.3m Calytrix carinata 0.4m PFC 50% over Goodenia armitiana 0.3m Euploca vestita 0.2m Eriachne lanata 0.3m and Leptosema anomalum 0.3m PFC 10%.

Veg Condition Excellent**Fire Age** 10+ years**Notes**

Species	Phase 1			Phase 2			Comments
	Cover (%)	Height (cm)	Specimen	Cover (%)	Height (cm)	Specimen	
Acacia ancistrocarpa	0.5	200		0.5	180		
Acacia bivenosa	0.1	50		0.1	50		
Acacia sericophylla	0.1	20		0.1	20		
Acacia stellaticeps	3	100		5	100		
Afrohybanthus aurantiacus				0.1	40	111-03	
Amphipogon sericeus	0.1	20		0.1	30		
Aristida holathera var. holathera	0.1	30		0.1	30		
Bonamia alatisemina	0.1	10		0.1	10		
Bonamia erecta	0.1	30		0.1	30		
Bulbostylis barbata				0.1	1	111-01	
Calytrix carinata	0.1	50		0.1	60		
Cassitya capillaris	0.1	20		0.1	50		
Dampiera candidans	0.1	40		0.1	40		
Dodonaea coriacea	0.1	20		0.1	20		
Eragrostis eriopoda	0.1	50		0.1	50	111-02	
Eriachne ?lanata				0.1	20	111-04	
Euploca pachyphylla	0.1	10	dead				
Euploca vestita	0.1	20					
Fimbristylis ?depauperata				0.1	30		
Goodenia armitiana	0.1	10	dead	0.1	5		
Grevillea wickhamii	0.1	160		0.1	160		
Hakea macrocarpa	0.1	60		0.1	60		
Halgania solanacea var. solanacea	0.1	20		0.1	20		
Jacksonia aculeata	0.5	70		0.5	70		
Leptosema anomalum	0.1	10		0.1	20		
Newcastelia spodioptricha	0.1	30					
Orianthera centralis	0.1	20	Q111-03				
Paraneurachne muelleri	0.1	30		0.1	30		
Pluchea tetranthera	0.1	20	Q111-01	0.1	40		
Ptilotus arthrolasius	0.1	10					
Scaevola parvifolia subsp. parvifolia	0.1	20		0.1	1		
Sida arenicola	0.1	70		0.1	70		
Sida sp. Pindan (B.G. Thomson 3398)	0.1	20					
Streptoglossa macrocephala	0.1	50	Q111-02	0.1	30		Dead
Trigastrotheca molluginea	0.1	10		0.1	10		
Triodia epactia	15	160		18	170		
Triodia schinzii	1	160		1	170		



Rio Tinto Winu - Winu Project**Site** WIN0112**Described by** P1 JP LS P2 JP**Date** P1 29/10/2023 P2 22/03/2024**Type** Q

50x50

Season E**Uniformity** Excellent**Location** Rimfire**MGA Zone** 51 401235 mE 7691898 mN 122.050536 E -20.87045328 S**Habitat** D2 – Owenia reticulata Sand Dune**Soil** Deep red sand.**Rock Type** Unknown, sub cropping. No surface fragments

Vegetation Occasional Owenia reticulata 5m PFC 1% over Acacia platycarpa 1.2m Thinicola incana 1.5m Triodia schinzii. 0.4-1.2m Acacia sericophylla 1.8m Crotalaria cunninghamii 1.6m PFC 45% over Dicrostylis doranii 0.4m Dampiera cinerea 0.5m Gompholobium simplicifolium 0.4m Triodia sp. Wide glumes PFC 30%.

Veg Condition Excellent**Fire Age** 10+ years**Notes**

Species	Phase 1			Phase 2			Comments
	Cover (%)	Height (cm)	Specimen	Cover (%)	Height (cm)	Specimen	
Acacia drepanocarpa subsp. latifolia	0.1	40		0.1	40		
Acacia hilliana × stellaticeps	0.1	20	Q112-03				
Acacia platycarpa 'Desert Form Pruinose'	0.1	120		0.1	120		
Acacia sabulosa	0.5	160					
Acacia sericophylla	0.2	150		0.2	150		
Afrohybanthus aurantiacus				0.1	30		
Aristida holathera var. holathera	0.1	30		0.1	30		
Calytrix carinata	0.1	50		0.1	50		
Cassytha capillaris	0.5	20		0.5	20		
Crotalaria cunninghamii subsp. cunninghamii	0.1	180	Q112-01				
Dampiera cinerea	0.1	40		0.1	40		
Dicrostylis doranii	4	40		4	40		
Dodonaea coriacea	0.1	70		0.1	70		
Eragrostis eriopoda	0.1	30		0.1	30		
Eriachne aristidea	0.1	30					
Gompholobium simplicifolium	2	50		2	50		
Grevillea eriostachya	0.1	100		0.1	100		
Grevillea stenobotrya	0.1	160		0.1	160		
Grevillea wickhamii	0.5	210		0.5	210		
Gyrostemon tepperi	0.1	160		0.1	160		
Jacksonia aculeata	1	50		1	50		
Newcastelia cladotricha	0.1	30					
Owenia reticulata	1	500		1	500		
Ptilotus arthrolasius	0.1	30		0.1	30		
Scaevola parvifolia subsp. parvifolia	0.1	20		0.1	20		
Solanum diversiflorum	0.1	10					
Solanum gilesii				0.1	30	112-P2-02	
Thinicola incana	0.1	150		0.1	150		
Triodia basedowii	0.1	80	Q112-01	5	80	112-P2-01	
Triodia schinzii	12	40-120		6	40-120		



Rio Tinto Winu - Winu Project**Site** WIN0113**Described by** P1 JP LS P2 JP**Date** P1 29/10/2023 P2 22/03/2024**Type** Q

50x50

Season E**Uniformity** Excellent**Location** Rimfire**MGA Zone** 51 401139 mE 7691756 mN 122.049605 E -20.87173106 S**Habitat** R2 – Grevillea wickhamii Acacia monticola over Acacia hilliana Acacia adoxa and Triodia epactia**Soil** Deep sandy loam**Rock Type** Laterite, with continuous laterized ironstone lag gravel**Vegetation** Grevillea wickhamii 3.5m and Acacia monticola 2.5m PFC 3% with occasional Acacia drepanocarpa Hakea lorea Hakea macrocarpa over Triodia epactia 1m Hummock grassland with Acacia hilliana 0.3m Goodenia azurea subsp. hesperia 0.2m Mirbelia viminalis 0.4m and Eriachne lanata 0.3m PFC% 50%**Veg Condition** Excellent**Fire Age** 10+ years**Notes**

Species	Phase 1			Phase 2			Comments
	Cover (%)	Height (cm)	Specimen	Cover (%)	Height (cm)	Specimen	
Acacia adoxa var. adoxa	0.1	30		0.1	30	113-P2-01	
Acacia drepanocarpa subsp. latifolia	0.1	100					
Acacia hilliana	3	100		3	100		
Acacia melleodora	0.1			0.1	120		
Acacia monticola	1	250		1	250		
Calytrix carinata	0.1	100		0.1	100		
Cassythia capillaris	0.5	30		0.5	30		
Dodonaea coriacea	0.1	40					
Eriachne lanata	1	30		1	30		
Goodenia azurea subsp. hesperia	0.1	30		0.1	30		
Goodenia triodiophila				0.1	20		
Grevillea wickhamii	0.5	350		0.5	350		
Hakea lorea subsp. lorea	0.1	270		0.1	270		
Halgania solanacea var. solanacea	0.1	20		0.1	20		
Lysiandra eremica	0.1	30		0.1	30		
Mirbelia viminalis	0.1	40					Dead
Ptilotus astrolasius				0.1	20		
Ptilotus calostachyus	0.1	20					
Triodia epactia	45	30-100		45	30-100	113-P2-02	





Rio Tinto Winu - Winu Project**Site** WIN0114**Described by** P1 LS P2 LS**Date** P1 30/10/2023 P2 22/03/2024**Type** Q

50x50

Season E**Uniformity** Excellent**Location** Rimfire**MGA Zone** 51 397251 mE 7692426 mN 122.01227129 E -20.86546630 S**Habitat** P19 – Melaleuca lasiandra Shrubland**Soil** Deep red sand**Rock Type** Unknown, sub cropping. No surface fragments

Vegetation Melaleuca lasiandra 2.5m with Acacia sericophylla 3m PFC 5% over Triodia schinzii 1.6m Jacksonia aculeata 1.3m PFC 5% over Amphipogon sericeus 0.4m Dicrastylis cordifolia 0.2m Ptilotus arthrolasius 0.4m Ptilotus astrolasius 0.3m Bonamia erecta 0.2m and Tribulopsis marliesiae 0.1m PFC 8%

Veg Condition Excellent**Fire Age** 5+ years**Notes**

Species	Phase 1			Phase 2			Comments
	Cover (%)	Height (cm)	Specimen	Cover (%)	Height (cm)	Specimen	
Acacia melleodora	0.1	25		0.1	40		
Acacia sericophylla	0.1	300		0.5	300		
Amphipogon sericeus	0.1	40		0.1	40		
Aristida holathera var. holathera	0.1	20		0.1	20		Dead
Bonamia alatisemina	0.1	5		0.1	50		
Bonamia erecta	0.1	30		0.1	30		
Calytrix carinata	0.1	100		0.1	100		
Cassylia capillaris	0.1	300		0.1	300		
Corchorus sidoides subsp. sidoides	0.1	50					
Dicrastylis cordifolia	0.1	20		0.1	30		
Eragrostis eriopoda	0.1	10		0.1	30	114-01	
Eriachne lanata	0.1	40		0.1	40		
Evolvulus alsinoides var. villosicalyx	0.1	30					
Gompholobium simplicifolium				0.1	50	114-04	
Hibiscus leptocladus	0.1	40		0.1	40	114-02	
Jacksonia aculeata	5	130		4	130		
Melaleuca lasiandra	3	200		3	200		
Newcastelia cladotricha	0.1	30					
Polygala isingii	0.1	10		0.1	15		
Ptilotus arthrolasius	0.1	20		0.1	10		
Ptilotus astrolasius	0.1	20		0.1	30		
Ptilotus calostachyus	0.1	50					
Ptilotus fusiformis	0.1	15					
Sida sp. Pilbara (A.A. Mitchell PRP 1543)				0.1	100	114-05	
Sida sp. Pindan (B.G. Thomson 3398)	0.1	40		0.1	20	114-03	
Tribulopsis marliesiae	0.1	10		0.1	30		
Triodia schinzii	10	160		13	160		





Rio Tinto Winu - Winu Project**Site** WIN0115**Described by** P1 JP LS P2 JP**Date** P1 1/11/2023 P2 22/03/2024**Type** Q

50x50

Season E**Uniformity** Excellent**Location** Rimfire**MGA Zone** 51 391918 mE 7698179 mN 121.961368 E -20.81318828 S**Habitat** P6 Acacia tumida var. kulparn over Sorghum plumosum**Soil** Red silty, clayey sand**Rock Type** Unknown, sub cropping. No surface fragments**Vegetation** Acacia tumida var. kulparn 2m with occasional Grevillea wickhamii and Owenia reticulata 6m PFC 10-20% over Sorghum plumosum var. plumosum and Triodia schinzii 1.5m PFC 20-25% over Ptilotus astrolasius 0.3m Ptilotus arthrolasius 0.3m Androcalva loxophylla 0.4m Eragrostis eriopoda 0.2m Jacksonia aculeata 0.3m Ptilotus calostachyus 0.4m PFC 5%.**Veg Condition** Excellent**Fire Age** 5+ years**Notes**

Species	Phase 1			Phase 2			Comments
	Cover (%)	Height (cm)	Specimen	Cover (%)	Height (cm)	Specimen	
Acacia tumida var. kulparn	4	200	Q115-01	4	200		
Amphipogon sericeus	0.1	30					
Androcalva loxophylla	0.1	50		0.1	50		
Bonamia alatisemina	0.1	20	Dead	0.1	20		
Bonamia erecta	0.1	40		0.1	40		
Calytrix carinata				0.1	30		
Dampiera candidans	0.1	40		0.1	40		
Dicrastylis exsuccosa	0.1	20		0.1	20		
Eragrostis eriopoda	0.1	20		0.1	20		
Eriachne lanata	0.1	30		0.1	30		
Gompholobium simplicifolium				0.1	60		
Grevillea wickhamii	0.5	300		0.5	300		
Indigofera boviparda subsp. eremaea	0.1	30		0.1	30		
Jacksonia aculeata	0.1	50		0.1	50		
Ptilotus arthrolasius	0.1	30					
Ptilotus astrolasius	0.1	40		0.1	40		
Ptilotus calostachyus	0.1	40		0.1	40		
Scaevola parvifolia subsp. parvifolia	0.1	20		0.1	20		
Sorghum plumosum var. plumosum	10	150		10	150		
Tephrosia arenicola	0.1	50		0.1	50		
Tribulopsis marliesiae	0.1	10					
Trigastrotheca molluginea	0.1	10		0.1	10		
Triodia epactia	0.1	140					
Triodia schinzii	5	150		5	150		



Rio Tinto Winu - Winu Project**Site** WIN0116**Described by** P1 JP LS P2 LS**Date** P1 4/11/2023 P2 23/03/2024**Type** Q

50x50

Season E**Uniformity** Excellent**Location** Rimfire**MGA Zone** 51 391589 mE 7696100 mN 121.958078 E -20.83195148 S**Habitat** P1 – Acacia platycarpa**Soil** Red sand**Rock Type** Unknown, sub cropping. No surface fragments

Vegetation Occasional Owenia reticulata 5m PFC 1% over Acacia platycarpa 1.2m and Acacia tumida var. kulparn 1.6m Grevillea wickhamii 1.6m Grevillea eriostachya 1.5m PFC 5% over Triodia schinzii (10-15%) 1m Gompholobium simplicifolium 0.5m Dampiera candidans 0.2m Eriachne lanata 0.2m Bonamia erecta 0.2m Eragrostis eriopoda 0.2m Dampiera cinerea 0.3m Seringia exastia 0.3m PFC 10%.

Veg Condition Excellent**Fire Age** 5-10 years**Notes**

Species	Phase 1			Phase 2			Comments
	Cover (%)	Height (cm)	Specimen	Cover (%)	Height (cm)	Specimen	
Acacia platycarpa 'Desert Form Non-prunose'	1	130		1	130		
Acacia stellaticeps	0.1	30		0.1	30		
Acacia tumida var. kulparn	2	150		2	150		
Amphipogon sericeus	0.5	40		0.5	40		
Bonamia erecta	5	40		3	30		
Calytrix carinata	0.1	50		0.1	50		
Dampiera candidans	0.1	50					
Dampiera cinerea	0.1	40		0.1	40		
Dicrastylis cordifolia	0.5	30		0.1	30		
Dicrastylis doranii	2	30		2	20		
Dodonaea coriacea	0.1	30					
Eragrostis eriopoda	0.1	20		0.1	15	116-02	
Eriachne aristidea	0.1	30					
Eriachne ?helmsii				0.1	35	116-01	
Eriachne lanata	0.5	50		0.1	20		
Euploca vestita	0.1	20	Q116-01				
Gompholobium simplicifolium	3	50		3	50		
Grevillea eriostachya	0.1	150		0.1	150		
Grevillea wickhamii	1	160		1	180		
Gyrostemon tepperi	0.5	160		0.5	160		Dying
Halgania solanacea var. solanacea	1	30		0.5	30		
Jacksonia aculeata	0.5	50		0.1	50		
Orianthera centralis	0.1	30		0.1	40		
Owenia reticulata	0	500	Out	0	500		Out
Polygala isingii	0.1	20		0.1	20		
Ptilotus arthrolasius	0.1	20		0.1	30		
Scaevola parvifolia subsp. parvifolia	0.1	20		0.1	20		
Seringia exastia	1.5	40		1.5	50		
Trigastrotrothea molluginea	0.1	10		0.1	20		
Triodia schinzii	15	40-130		15	40-130		



Rio Tinto Winu - Winu Project**Site** WIN0117**Described by** P1 JP LS P2 LS**Date** P1 4/11/2023 P2 23/03/2024**Type** Q

50x50

Season E**Uniformity** Excellent**Location** Rimfire**MGA Zone** 51 391586 mE 7695865 mN 121.958034 E -20.83407438 S**Habitat** D2 Owenia reticulata sand dune**Soil** Deep red sand**Rock Type** Unknown, sub cropping. No surface fragments

Vegetation Occasional Owenia reticulata 5m PFC 1% over Grevillea stenobotrya 2m Acacia sabulosum 1m Swainsona microphylla 1m Acacia platycarpa 1.5m PFC 5% over Triodia schinzii 0.3-1m Eriachne aristidea 0.4m Newcastleia spodioptricha 0.2m Aristida holathera var. holathera 0.5m Indigofera ammobia 0.3m PFC 10%.

Veg Condition Excellent**Fire Age** 5-10 years**Notes**

Species	Phase 1			Phase 2			Comments
	Cover (%)	Height (cm)	Specimen	Cover (%)	Height (cm)	Specimen	
Acacia platycarpa 'Desert Form Pruinose'	5	100		6	100		
Acacia sabulosa	0.1	40		0.1	25		
Acacia stellaticeps	0.1	30		0.1	20		
Aristida holathera var. holathera	2	50		1.5	50	117-05	
Calytrix carinata	0.1	40		0	40		Out
Cassytha capillaris				0.1	40		
Dampiera cinerea	0.1	40		0.1	50		
Dicrastylis doranii	3	40		4	40		
Eragrostis eriopoda	0.1	20		0.1	30		
Eriachne aristidea	3	30					
Eriachne mucronata	0.1	40		0.1	30		
Euphorbia myrtilloides	0.1	40		0.1	40		
Gompholobium simplicifolium	0.1	40		0.1	40		
Grevillea stenobotrya	0.1	200		0.1	200		
Grevillea wickhamii				0.1	1		Seedling
Gyrostemon tepperi	0.1	150		0.1	150		
Indigofera ammobia	0.1	30		0.1	50		
Newcastleia spodioptricha	2	30		1	30	117-02	
Panicum australiense var. australiense	0.1	10		0.1	10	117-01	
Ptilotus arthrolasius	0.1	20		0.1	20		
Scaevola parvifolia subsp. parvifolia	0.1	30		0.1	10		
Seringia exastia	2	40		4	60		
Sida sp. Western sand dunes (P.K. Latz 11980)	0.1	20		0.1	30	117-04	
Swainsona microphylla	0.1	100		0.1	100		
Thinicola incana				0.1	30	117-03	
Triodia schinzii	15	40-150		12	120		





Rio Tinto Winu - Winu Project**Site** WIN0118**Described by** P1 JP LS P2 JP ND**Date** P1 12/06/2024 P2 29/10/2024**Type** Q

50x50

Season E**Uniformity** Excellent**Location** Revised DE Texas**MGA Zone** 51K 377301 mE 7700961 mN 121.8211197 E -20.78714761 S**Habitat** P3 Acacia drepanocarpa**Soil** Deep red sand, with tiny surface grains.**Rock Type** Unknown, sub cropping.

Vegetation Grevillea wickhamii 3m Acacia drepanocarpa 2.7m Acacia ancistrocarpa 2.5m with occasional Acacia orthocarpa 2.5m PFC 10% over Triodia schinzii 1-1.2m (25%) and regenerating shrubs including Dicrastylis cordifolia 0.3m Tephrosia arenicola 0.5m Seringia exastia 0.3m Halgania solanacea var. solanacea 0.2m Goodenia hartiana 0.3m and Eriachne lanata 0.5m PFC 35%.

Veg Condition Excellent**Fire Age** 10 years**Notes**

Species	Phase 1			Phase 2			Comments
	Cover (%)	Height (cm)	Specimen	Cover (%)	Height (cm)	Specimen	
Acacia ancistrocarpa	0.1	300		0.1	300		
Acacia drepanocarpa subsp. latifolia	5	100-250		5	100-250		
Acacia orthocarpa	0.5				160		
Amphipogon sericeus	0.1	40		0.1	40		
Aristida holathera var. holathera	0.1	30					Not found
Bonamia alatisemina	0.1	20		0.1	20		
Calytrix carinata	0.1	80		0.1	80		
Dampiera candidans	0.1	30		0.1	30		
Dicrastylis cordifolia	0.5	30		0.5	30		
Eragrostis eriopoda	0.1	3		0.1	3		
Eriachne lanata	5	50		2	50		
Goodenia hartiana	0.1	30		0.1	30		N=260
Grevillea wickhamii	2.5	300		2.5	300		
Halgania solanacea var. solanacea	0.5	30		0.5	30		
Hibiscus leptocladus				0.1	10		
Indigofera boviparda subsp. eremaea	0.1	20		0.1	20		
Jacksonia aculeata	0.1	50		0.1	80		
Ptilotus astrolasius	0.1	35		0.1	35		
Ptilotus calostachyus	0.1	30		0.1	30		
Scaevola parvifolia subsp. parvifolia	0.1	10		0.1	10		
Seringia exastia	1	50		1	50		
Tephrosia arenicola	0.1	50		0.1	50		
Trigastrotheca molluginea	0.1	10		0.1	10		
Triodia schinzii	25	50-120		25	50-120		





Rio Tinto Winu - Winu Project**Site** WIN0119**Described by** P1 JP LS P2 JP ND**Date** P1 12/06/2024 P2 29/10/2024**Type** Q

50x50

Season E**Uniformity** Excellent**Location** Revised DE Texas**MGA Zone** 51K 377682 mE 77004881 mN 121.8247467 E -20.79144577 S**Habitat** D2 Sand dune with Owenia reticulata**Soil** Deep red sand**Rock Type** Unknown, sub cropping.

Vegetation Owenia reticulata 2.5m Grevillea stenobotrya 3m Grevillea wickhamii 2.5m Acacia tumida var. kulparn 2.5m PFC 3% over Acacia sabulosa 1.5m Sida sp. Western sand dunes (P.K. Latz 11980) 1.6m Thinicola incana 1.2m PFC 1% over Triodia schinzii 0.5-1.5m Dicrastylis doranii 0.3m Aristida holathera var. holathera 0.4m PFC 20%.

Veg Condition Excellent**Fire Age** Long unburnt**Notes**

Species	Phase 1			Phase 2			Comments
	Cover (%)	Height (cm)	Specimen	Cover (%)	Height (cm)	Specimen	
Acacia drepanocarpa subsp. latifolia	0.1	100		0.1	100		
Acacia sabulosa	0.5	150		0.5	150		
Acacia sericophylla	0.1	150		0.1	150		
Acacia tumida var. kulparn	2	250		2	250		
Androcalva loxophylla	0.1	30		0.1	30		
Aristida holathera var. holathera	0.1	40		0.1	40		
Calytrix carinata	0.1	50		0.1	50		
Dampiera cinerea	0.1	40		0.1	40		
Dicrastylis doranii	1.5	50		1.5	50		
Duboisia hopwoodii	0.1	150		0.1	150		
Eriachne aristidea	0.1	150		0.1	150		
Eriachne helmsii	0.1	40	119-02	0.1	40		
Euploca transformis	0.1	30	119-01	0.1	30		
Gompholobium simplicifolium	0.1	30		1	30		
Grevillea stenobotrya	1	300		1	300		
Grevillea wickhamii subsp. hispidula	0.5	250	118-01	0.5	250		
Gyrostemon tepperi	0.1	70					Not found
Halgania solanacea var. solanacea	0.1	30		0.1	30		
Indigofera ammobia	0.1	40		0.1	40		N=18
Jacksonia aculeata	0.1	50		0.1	50		
Newcastelia cladotricha	0.1	50		0.1	50		
Owenia reticulata	0.5	250		0.5	250		
Panicum australiense var. australiense	0.1	10		0.1	10		
Paractaenum refractum	0.1	20					Not found
Paranotis pterospora	0.1	10		0.1	10		
Petalostylis cassioides	0.1	100		0.1	100		
Polygala isingii	0.1	10	119-03				Not found
Ptilotus arthrolasius	0.1	20		0.1	20		
Ptilotus calostachyus	0.1	70		0.1	70		
Scaevola parvifolia subsp. parvifolia	0.1	40		0.1	40		
Sida sp. Western sand dunes (P.K. Latz 11980)	0.1	120		0.1	120		
Spermacoce occidentalis	0.1	20		0.1	20		
Thinicola incana	0.1	120		0.1	120		
Triodia schinzii	12	50-150		12	50-150		



Rio Tinto Winu - Winu Project**Site** WIN0120**Described by** P1 JP LS P2 JP ND**Date** P1 12/06/2024 P2 29/10/2024**Type** Q

50x50

Season E**Uniformity** Excellent**Location** Revised DE Texas**MGA Zone** 51K 379679 mE 7700128 mN 121.84389690 E -20.79482835 S**Habitat** P15c Corymbia candida over Triodia brizoides**Soil** Silty clay. Large siltstone fragments with small rounded ironstone.**Rock Type** Lateritic, sub cropping.**Vegetation** Corymbia candida 10m PFC 2% over Acacia sericophylla 2m Grevillea wickhamii 2m Acacia drepanocarpa 3m PFC 3% over Indigofera monophylla 1.2mm Triodia brizoides 0.6-1m Paraneurachne muelleri 0.3m with occasional Cynodon anisocarpa PFC 35-40%.**Veg Condition** Excellent**Fire Age** Long unburnt**Notes**

Species	Phase 1			Phase 2			Comments
	Cover (%)	Height (cm)	Specimen	Cover (%)	Height (cm)	Specimen	
Acacia adsurgens	0.1	150		0.1	150		
Acacia ancistrocarpa	0.5	120		0.5	120		
Acacia drepanocarpa subsp. latifolia	2.5	200		2.5	200		
Acacia sericophylla	0.1	180		0.1	180		
Bulbostylis barbata	0.1	5		0.1	5		
Calytrix carinata	0.1	50		0.1	50		
Corymbia candida	2	900		2	900	120-01	
Cynodon anisocarpa	0.1	5	120-01	0.1	5		N=84
Eragrostis eriopoda	0.1	10		0.1	10		
Eulalia aurea	0.1	40		0.1	40		
Fimbristylis dichotoma	0.1	30	120-02	0.1	30		
Grevillea wickhamii subsp. hispidula	0.1	70		0.1	70		Dead
Indigofera monophylla	0.1	100		0.1	100		
Paraneurachne muelleri	1	30		1	30		
Polycarpaea corymbosa var. corymbosa	0.1	5		0.1	5		
Sclerolaena cornishiana	0.1	10	120-05	0.1	10		
Senna symonii	0.1	120	120-03	0.1	120		
Sporobolus australasicus	0.1	10		0.1	10		
Tephrosia arenicola	0.1	20		0.1	20		
Trianthema pilosum	0.1	5		0.1	5		
Trianthema triquetrum	0.1	5		0.1	5		
Tribulus macrocarpus	0.1	5	120-04	0.1	5		
Trigastrotheca molluginea	0.1	5		0.1	5		
Triodia brizoides	30	60-100		40	60-100		





Rio Tinto Winu - Winu Project**Site** WIN0121**Described by** P1 JP LS P2 JP ND**Date** P1 12/06/2024 P2 29/10/2024**Type** Q

50x50

Season E**Uniformity** Excellent**Location** Revised DE Texas**MGA Zone** 51K 379413 mE 7700391 mN 121.8413596 E -20.79243508 S**Habitat** P4 Acacia orthocarpa Shrubland**Soil** Deep red sand, scattered small laterite fragments.**Rock Type** Unknown, sub cropping.

Vegetation Scattered Owenia reticulata 5m PFC 1% over Acacia orthocarpa 2.5m with occasional Acacia ancistrocarpa 2m Grevillea wickhamii 3m 10-15% over Triodia schinzii 0.4-1.2m Eriachne lanata 0.4m Dicrastylis cordifolia 0.3m Androcalva loxophylla 0.4m Goodenia hartiana 0.4m Ptilotus astrolasius 0.3m Triodia epactia 0.6m PFC 25%

Veg Condition Excellent**Fire Age** Long unburnt**Notes**

Species	Phase 1			Phase 2			Comments
	Cover (%)	Height (cm)	Specimen	Cover (%)	Height (cm)	Specimen	
Acacia ancistrocarpa	0.1	3		0.1	3		
Acacia orthocarpa	10	250		10	250		
Amphipogon sericeus	0.1	40		0.1	40		
Androcalva loxophylla	0.5	40		0.5	40		
Bonamia erecta	0.1	20		0.1	20		
Calytrix carinata	0.1	30		0.1	40		
Cassytha capillaris	0.1	10		0.1	10		
Codonocarpus cotinifolius	0.1	100		0.1	100		
Corchorus sidoides subsp. sidoides	0.1	30					Not found
Dicrastylis cordifolia	0.1	30		0.1	30		
Eragrostis eriopoda	0.1	30		0.1	30		
Eriachne lanata	3	40		3	40		
Goodenia armitiana	0.1	10					Not found
Goodenia hartiana	1	40		1	40		N=341
Grevillea eriostachya	0.1	3		0.1	3		
Hakea macrocarpa	0.1	80		0.1	80		
Halgania solanacea var. solanacea	0.1	25		0.1	25		
Indigofera boviparda subsp. eremaea	0.1	50		0.1	50		
Indigofera boviparda subsp. eremaea	0.1	10	121-02	0.1	10		
Paraneurachne muelleri	0.1	30		0.1	30		
Ptilotus astrolasius	0.5	40		0.5	40		
Ptilotus calostachyus	0.1	50		0.1	50		
Scaevola parvifolia subsp. parvifolia	0.1	20		0.1	20		
Senna curvistyla	0.1	10	121-01				Not found
Sorghum plumosum var. plumosum				0.5	100		
Trigastrotheca molluginea	0.1	10		0.1	10		
Triodia brizoides	0.5	80		0.5	80		
Triodia epactia	0.1	60		0.1	60		
Triodia schinzii	15	50-120		15	50-120		





Rio Tinto Winu - Winu Project**Site** WIN0122**Described by** P1 JP LS P2 JP ND**Date** P1 12/06/2024 P2 30/10/2024**Type** Q

50x50

Season E**Uniformity** Excellent**Location** Revised DE Texas**MGA Zone** 51K 382006 mE 7698820 mN 121.8661736 E -20.80679404 S**Habitat** C2 Acacia bivenosa over Triodia brizoides & Triodia epactia**Soil** Pale red sand**Rock Type** Unknown, sub cropping.**Vegetation** Occasional Corymbia candida 6m Acacia bivenosa with Grevillea wickhamii and Acacia ancistrocarpa 3% over Triodia epactia 1m (60%) Triodia 1m brizoides and Triodia schinzii 1.5m**Veg Condition** Excellent**Fire Age** Unknown**Notes** Clay layer on low areas where water has pooled during wet season.

Species	Phase 1			Phase 2			Comments
	Cover (%)	Height (cm)	Specimen	Cover (%)	Height (cm)	Specimen	
Acacia adsurgens				0.1	40		
Acacia ancistrocarpa				3	140		
Acacia bivenosa	3	200		3	200		
Acacia hilliana	0.1	20		0.1	20		
Bonamia alatisemina	0.1	10		0.1	10		
Bulbostylis barbata	0.1	1		0.1	1		
Calytrix carinata	0.1	40		0.1	40		
Cassytha capillaris	0.1	20		0.1	20		
Cynodon anisocarpa	0.1	1		0.1	1		N=35
Dampiera candidans				0.1	20		
Eragrostis eriopoda	0.1	20		0.1	20		
Eriachne mucronata	0.1	40	122-02	0.1	40		
Eulalia aurea				0.1	100		
Fimbristylis dichotoma	0.1	10		0.1	10		
Goodenia armitiana	0.1	20		0.1	20		
Goodenia triodiophila	0.1	20	122-01				
Grevillea wickhamii subsp. hispidula	0.1	320		0.1	320		
Polycarpaea corymbosa var. corymbosa	0.1	5		0.1	5		
Ptilotus calostachyus	0.1	20		0.1	20		
Senna symonii	0.1	40	122-03	0.1	40		
Tephrosia arenicola	0.1	30		0.1	30		
Trianthema pilosum	0.1	1		0.1	1		
Tribulus macrocarpus	0.1	10		0.1	10		
Trigastrotheca molluginea	0.1	10		0.1	10		
Triodia brizoides	3	50		3	50		
Triodia epactia	30	80		30	80		
Triodia schinzii	20	100		20	100		



Rio Tinto Winu - Winu Project**Site** WIN0123**Described by** P1 JP LS P2 JP ND**Date** P1 13/06/2024 P2 30/10/2024**Type** Q

50x50

Season E**Uniformity** Excellent**Location** Revised DE Texas**MGA Zone** 51K 380388 mE 7699438 mN 121.8506706 E -20.80110759 S**Habitat** Undulating plain – P10c *Corymbia zygophylla* woodland**Soil** Deep red clayey sand**Rock Type** Unknown, sub cropping.

Vegetation *Corymbia zygophylla* 5m *Grevillea wickhamii* 4m *Acacia sericophylla* 4m PFC 3% over *Acacia drepanocarpa* 2m *Jacksonia aculeata* 1m *Indigofera monophylla* 0.6m PFC 4% over *Triodia schinzii* 0.4-1.2m *Dicrastylis cordifolia* 0.3m *Halgania solanacea* 0.3m occasional *Goodenia hartiana* 0.3m PFC 15-20%.

Veg Condition Excellent**Fire Age** Long unburnt**Notes**

Species	Phase 1			Phase 2			Comments
	Cover (%)	Height (cm)	Specimen	Cover (%)	Height (cm)	Specimen	
<i>Acacia colei</i> var. <i>colei</i>	0.1	250		0.1	250		
<i>Acacia drepanocarpa</i> subsp. <i>latifolia</i>	3	200		3	200		
<i>Acacia sericophylla</i>	0.1	400		0.1	400		
<i>Amphipogon sericeus</i>	0.1	40		0.1	40		
<i>Aristida holathera</i> var. <i>holathera</i>	0.1	40		0.1	40		
<i>Arivela viscosa</i>	0.1	10					
<i>Boerhavia gardneri</i>	0.1	20					
<i>Bonamia alatisemina</i>	0.1	10		0.1	10		
<i>Corchorus sidoides</i> subsp. <i>sidoides</i>	0.1	50		0.1	50		
<i>Corymbia zygophylla</i>	2	500		2	500		
<i>Dicrastylis cordifolia</i>	0.5	40		0.5	40		
<i>Dodonaea coriacea</i>	0.1	120		0.1	120		
<i>Eragrostis eriopoda</i>	0.1	30		0.1	30		
<i>Eriachne aristidea</i>	0.1	10		0.1	10		
<i>Eriachne helmsii</i>	0.1	30	123-04	0.1	30		
<i>Eriachne lanata</i>	0.1	50	123-03	0.1	50		
<i>Evolvulus alsinoides</i> var. <i>villosicalyx</i>				0.1	20		
<i>Gompholobium simplicifolium</i>	0.1	30		0.1	30		
<i>Goodenia armitiana</i>	0.1	150					
<i>Goodenia hartiana</i>	1	30		1	30		N=90
<i>Grevillea wickhamii</i> subsp. <i>hispidula</i>	1	400		1	400		
<i>Halgania solanacea</i> var. <i>solanacea</i>	0.1	40		0.1	40		
<i>Indigofera monophylla</i>	0.1	100		0.1	100		
<i>Jacksonia aculeata</i>	1	100		1	100		
<i>Melhania oblongifolia</i>	0.1	40	123-05	0.1	40		
<i>Panicum australiense</i> var. <i>australiense</i>	0.1	20		0.1	20		
<i>Paraneurachne muelleri</i>	0.5	40		0.5	40		
<i>Ptilotus arthrolasius</i>	0.1	30		0.1	30		
<i>Ptilotus astrolasius</i>	0.1	20		0.1	20		
<i>Ptilotus fusiformis</i>				0.1	30		
<i>Scaevola parvifolia</i> subsp. <i>parvifolia</i>	0.1	30		0.1	30		
<i>Setaria surgens</i>	0.1	40		0.1	40		
<i>Sida arenicola</i>	0.1	100		0.1	100		
<i>Sida</i> sp. Pindan (B.G. Thomson 3398)	0.1	50	123-01	0.1	50		
<i>Solanum</i> ?centrale	0.1	30	123-02	0.1	30		
<i>Tinospora smilacina</i>	0.1	10		0.1	10		
<i>Trigastrotrocha molluginea</i>	0.1	10		0.1	10		
<i>Triodia schinzii</i>	15	40-120		15	40-120		



Rio Tinto Winu - Winu Project**Site** WIN0124**Described by** JP LS**Date** 13/06/2024 **Type** Q

50x50

Season E**Uniformity** Excellent**Location** Revised DE Texas**MGA Zone** 51K 381225 mE 7698034 mN 121.8586165 E -20.81384506 S**Habitat** P15b Corymbia candida and Acacia monticola over Triodia epactia**Soil** Pale clayey sand.**Rock Type** Unknown, sub cropping.

Vegetation Corymbia candida 10m PFC 3-5% over Acacia monticola 3m Acacia colei var. colei 3m Acacia ancistrocarpa 3m PFC 10-20% over Triodia epactia 0.6-1.2m Gossypium australe 1.5m Pluchea tetranthera 0.5m Indigofera monophylla 0.6m Eulalia aurea 0.5m Sorghum plumosum 1.7m Aristida inaequiglumis 1.5m PFC 50%.

Veg Condition Excellent**Fire Age** Long unburnt**Notes** Extensive Bilby activity within quadrat site.

Species	Phase 1			Phase 2			Comments
	Cover (%)	Height (cm)	Specimen	Cover (%)	Height (cm)	Specimen	
Abutilon otocarpum	0.1	50	124-11				
Acacia ancistrocarpa	1	300					
Acacia colei var. colei	2	300					
Acacia drepanocarpa subsp. latifolia	0.1	300					
Acacia monticola	12	300					
Acacia tumida var. pilbarensis	0.1	170	124-10				
Afrohybanthus aurantiacus	0.1	30					
Aristida holathera var. holathera	0.1	50					
Aristida inaequiglumis	0.5	40					
Arivela viscosa	0.1	10					
Boerhavia gardneri	0.1	20					
Cassytha capillaris	0.1	30					
Clerodendrum floribundum var. floribundum	0.1	300	124-02				
Corchorus sidoides subsp. sidoides	0.1	40					
Corymbia candida	4	800-1000					
Cymbopogon oblectus	0.1	60	124-03				
Digitaria brownii	0.1	50	124-07				
Eragrostis eriopoda	0.1	50					
Eriachne ?helmsii	0.1	30	124-01				
Eriachne aristidea	0.1	30					
Eulalia aurea	0.1	50					
Euphorbia vaccaria var. vaccaria	0.1	1	124-04				
Evolvulus alsinoides var. villosicalyx	0.1	10					
Goodenia armitiana	0.1	20					
Gossypium australe	0.5	150					
Indigofera monophylla	0.5	70					
Panicum australiense var. australiense	0.1	10					
Paspalidium gracilis	0.1	100	124-05				
Pluchea ferdinandi-muelleri	0.1	10					
Pluchea tetranthera	0.1	50					
Polycarpaea corymbosa var. corymbosa	0.1	10					
Senna ?ferraria x	0.1	140	124-08				
Setaria surgens	0.1	20					
Sida arenicola	0.1	60					
Sida sp? Excedentifolia (J.L. Egan 1925)	0.1	30	124-09				
Sida sp. Indet.	0.1	20	124-06				
Solanum diversiflorum	0.1	20					
Sporobolus australasicus	0.1	10					
Trigastrotrothea molluginea	0.1	10					
Triodia epactia	20	60-120					



Rio Tinto Winu - Winu Project**Site** WIN0125**Described by** JP LS**Date** 13/06/2024 **Type** Q

50x50

Season E**Uniformity** Excellent**Location** Revised DE Texas**MGA Zone** 51K 377266 mE 7699127 mN 121.8206548 E -20.80371352 S**Habitat** D2 Sand dune with *Owenia reticulata***Soil** Deep red sand.**Rock Type** Unknown, sub cropping.

Vegetation *Erythrophleum chlorostachys* 2m *Grevillea wickhamii* 1.5m occasional *Owenia reticulata* 3m
PFC 4% over *Acacia tumida* var. *kulparn* 1.5m *Calytrix carinata* 1m *Acacia sabulosa* 0.9m
Thinicola incana 1m PFC 1-3% over *Triodia schinzii* 1.6m *Dicrastylis doranii* 0.3m *Aristida*
holathera var. *holathera* 0.3m PFC 15%

Veg Condition Excellent**Fire Age** 5 years**Notes**

Species	Phase 1			Phase 2			Comments
	Cover (%)	Height (cm)	Specimen	Cover (%)	Height (cm)	Specimen	
<i>Acacia sabulosa</i>	2	150					
<i>Acacia tumida</i> var. <i>kulparn</i>	2	200					
<i>Aristida holathera</i> var. <i>holathera</i>	0.1	30					
<i>Bonamia erecta</i>	0.1	25					
<i>Calytrix carinata</i>	0.1	40					
<i>Comesperma sabulosum</i>	0.1	160					
<i>Dampiera cinerea</i>	0.1	60					
<i>Dicrastylis doranii</i>	2	50					
<i>Eragrostis eriopoda</i>	0.1	30					
<i>Eriachne aristidea</i>	0.1	20					
<i>Eriachne helmsii</i>	0.1	30					
<i>Erythrophleum chlorostachys</i>	1.5	300					
<i>Gompholobium simplicifolium</i>	0.1	50					
<i>Grevillea stenobotrya</i>	0.1	40					
<i>Grevillea wickhamii</i> subsp. <i>hispidula</i>	0.1	400					
<i>Gyrostemon tepperi</i>	0.1	30					
<i>Hakea macrocarpa</i>	0.1	100					
<i>Halgania solanacea</i> var. <i>solanacea</i>	0.1	30					
<i>Jacksonia aculeata</i>	0.1	30					
<i>Newcastelia cladotricha</i>	0.1	20					
<i>Panicum australiense</i> var. <i>australiense</i>	0.1	10					
<i>Paractaenum refractum</i>	0.1	30					
<i>Paranotis pterospora</i>	0.1	10					
<i>Petalostylis cassioides</i>	0.1	120					
<i>Scaevola parvifolia</i> subsp. <i>parvifolia</i>	0.1	20					
<i>Seringia exastia</i>	0.1	30					
<i>Thinicola incana</i>	0.1	160					
<i>Triodia schinzii</i>	12	60-150					



Rio Tinto Winu - Winu Project**Site** WIN0126**Described by** P1 JP LS P2 JP ND**Date** P1 14/06/2024 P2 30/10/2024**Type** Q

50x50

Season E**Uniformity** Excellent**Location** Revised DE Texas**MGA Zone** 51K 379460 mE 7699310 mN 121.8417462 E -20.80220394 S**Habitat** Interdunal sandplain P10c**Soil** Deep red sand.**Rock Type** Unknown, sub cropping.

Vegetation Corymbia zygophylla 5m PFC 3-5% over Grevillea wickhamii 3m Acacia sericophylla 2.5m
 Acacia tumida var. kulparn 1.8m PFC 3% over Triodia schinzii 0.4-1.2m (5-10%) Jacksonia
 aculeata 0.4m with Bonamia erecta 0.3m Dicrastylis cordifolia 0.3m Ptilotus astrolasius 0.3m and
 Calytrix carinata 0.4m PFC 15-20%

Veg Condition Excellent**Fire Age** 10 years**Notes**

Species	Phase 1			Phase 2			Comments
	Cover (%)	Height (cm)	Specimen	Cover (%)	Height (cm)	Specimen	
Acacia ancistrocarpa	0.1	120		0.1	120		
Acacia sericophylla	0.1	180		0.1	180		
Acacia tumida var. kulparn	0.1	160		0.1	160		
Amphipogon sericeus	0.1	30		0.1	30		
Bonamia erecta	1	50		1	50		
Calytrix carinata	0.1	120		0.1	120		
Clerodendrum tomentosum var? tomentosum	0.1	50	126-01	0.1	50		
Corchorus sidoides subsp. sidoides	0.1	30		0.1	30		
Corymbia zygophylla	3	400		3	400		
Dicrastylis cordifolia	0.1	30		0.1	30		
Dodonaea coriacea	0.1	50		0.1	50		
Eragrostis eriopoda	0.1	20		0.1	20		
Eriachne lanata	0.1	30		0.1	30		
Euphorbia psilosperma	0.1	150	126-02	0.1	150		
Gompholobium simplicifolium	0.1	50		0.1	50		
Goodenia armitiana	0.1	20		0.1	20		
Grevillea wickhamii subsp. hispidula	0.1	300		0.1	300		
Halgania solanacea var. solanacea	0.1	30		0.1	30		
Hibiscus leptocladus	0.1	30					
Indigofera boviparda subsp. eremaea	0.1	40		0.1	40		
Indigofera monophylla	0.1	120		0.1	120		
Jacksonia aculeata	6	100		6	100		
Leptosema anomalum	0.1	30		0.1	30		
Melhaniea oblongifolia				0.1	40		
Panicum australiense var. australiense	0.1	10		0.1	10		
Paraneurachne muelleri	0.1	30		0.1	30		
Paspalidium reflexum	0.1	10	126-03	0.1	10		
Petalostylis cassioides	0.1	120		0.1	120		
Ptilotus astrolasius	0.5	50		0.5	50		
Scaevola parvifolia subsp. parvifolia	0.1	20		0.1	20		
Senna curvistyla	0.1	30	126-05				
Setaria surgens	0.1	30		0.1	30		
Sida arenicola	0.1	50		0.1	50		
Sida sp. Pindan (B.G. Thomson 3398)	0.1	40	126-04	0.1	40		
Solanum centrale	0.1	30		0.1	30		
Tinospora smilacina	0.1	200		0.1	200		
Trigastrotheca molluginea	0.1	10		0.1	10		
Triodia schinzii	6	40-120		6	40-120		



Rio Tinto Winu - Winu Project**Site** WIN0127**Described by** JP LS**Date** 14/06/2024 **Type** Q

50x50

Season E**Uniformity** Excellent**Location** Revised DE Texas**MGA Zone** 51K 380416 mE 7697893 mN 121.8508242 E -20.81507586 S**Habitat** R2 - Low sandy rise/ sub-cropping gravel**Soil** Pale red sand.**Rock Type** Unknown, sub cropping.**Vegetation** Scattered *Corymbia opaca* 7m PFC 1% over *Grevillea wickhamii* 2.5m *Mirbelia viminalis* 1m PFC 1% over *Triodia brizoides* 0.5-1m (40%) with *Acacia hilliana* 0.4m *Acacia adoxa* 0.4m *Tephrosia arenicola* 0.5m *Ptilotus calostachyus* 0.6m.**Veg Condition** Excellent**Fire Age** 10 years**Notes** Potential mosaic between R2 and P18

Species	Phase 1			Phase 2			Comments
	Cover (%)	Height (cm)	Specimen	Cover (%)	Height (cm)	Specimen	
<i>Acacia adoxa</i> var. <i>adoxo</i>	0.1	30					
<i>Acacia colei</i> var. <i>colei</i>	0.1	150					
<i>Acacia hilliana</i>	3	30					
<i>Afrohybanthus aurantiacus</i>	0.1	50					
<i>Amphipogon sericeus</i>	0.1	50					
<i>Aristida holathera</i> var. <i>holathera</i>	0.1	20					
<i>Boerhavia gardneri</i>	0.1	10					
<i>Bonamia erecta</i>	0.1	30					
<i>Calytrix carinata</i>	0.1	40					
<i>Cassyltha capillaris</i>	0.1	20					
<i>Corchorus sidoides</i> subsp. <i>sidoides</i>	0.1	30					
<i>Corymbia opaca</i>	2	600					
<i>Dampiera cinerea</i>	0.1	40					
<i>Eriachne aristidea</i>	0.1	20					
<i>Eulalia aurea</i>	0.1	40					
<i>Evolvulus alsinoides</i> var. <i>villosicalyx</i>	0.1	20					
<i>Goodenia armitiana</i>	0.1	20					
<i>Goodenia azurea</i> subsp. <i>hesperia</i>	0.1	30					
<i>Grevillea wickhamii</i> subsp. <i>hispidula</i>	0.1	240					
<i>Halgania solanacea</i> var. <i>solanacea</i>	0.1	30					
<i>Jacksonia aculeata</i>	0.1	60					
<i>Leptosema anomalum</i>	0.1	30					
<i>Mirbelia viminalis</i>	0.1	120					
<i>Paraneurachne muelleri</i>	0.1	20					
<i>Ptilotus astrolasius</i>	0.1	30					
<i>Ptilotus calostachyus</i>	0.1	50					
<i>Senna curvistyla</i>	0.1	10	127-01				
<i>Setaria surgens</i>	0.1	30					
<i>Sida arenicola</i>	0.1	120					
<i>Tephrosia arenicola</i>	0.1	30					
<i>Trigastrotheca molluginea</i>	0.1	10					
<i>Triodia brizoides</i>	30	50-100					
<i>Triodia schinzii</i>	0.1	100					



Rio Tinto Winu - Winu Project**Site** WIN0128**Described by** JP LS**Date** 14/06/2024 **Type** Q

50x50

Season E**Uniformity** Excellent**Location** Revised DE Texas**MGA Zone** 51K 381147 mE 7696517 mN 121.8577637 E -20.82754469 S**Habitat** C3 – Acacia stellaticeps Claypan.**Soil** Red brown sandy clay**Rock Type** Unknown, sub cropping.**Vegetation** Grevillea wickhamii 2.5m Acacia ancistrocarpa 1.8m PFC 1% over Acacia bivenosa 1m
Dampiera candidans 0.5m Tephrosia arenicola 0.6m Triodia epactia 0.3-1.2m Acacia stellaticeps -
.6m aff. Amphipogon sericeus 0.3m PFC 40%**Veg Condition** Excellent**Fire Age** 3-5 years**Notes**

Species	Phase 1			Phase 2			Comments
	Cover (%)	Height (cm)	Specimen	Cover (%)	Height (cm)	Specimen	
Acacia ancistrocarpa	0.1	180					
Acacia bivenosa	0.5	100					
Acacia hilliana	0.1	40					
Acacia hilliana × stellaticeps	0.1	30					
Acacia stellaticeps	3	60					
Amphipogon sericeus (non-hairy form)	0.1	30	128-01				
Aristida holathera var. holathera	0.1	30					
Aristida inaequiglumis	0.1	20					
Bulbostylis barbata	0.1	1					
Calytrix carinata	0.1	40					
Dampiera candidans	0.1	50					
Eragrostis eriopoda	0.1	20					
Eriachne aristidea	0.1	10					
Eriachne sp.	0.1	30					
Fimbristylis depauperata	0.1	30	128-03				
Fimbristylis dichotoma	0.1	40	128-02				
Grevillea wickhamii subsp. hispidula	0.1	250					
Panicum australiense var. australiense	0.1	10					
Paraneurachne muelleri	0.1	40					
Polycarpaea corymbosa var. corymbosa	0.1	1					
Polygala isingii	0.1	1					
Sida sp. Pilbara (A.A. Mitchell PRP 1543)	0.1	40	128-04				
Streptoglossa odora	0.1	10	128-05				
Tephrosia arenicola	0.1	60					
Trigastrotheca molluginea	0.1	10					
Triodia epactia	30	30-150					



Rio Tinto Winu - Winu Project**Site** WIN0129**Described by** JP LS**Date** 15/06/2024 **Type** Q

50x50

Season E**Uniformity** Excellent**Location** Revised DE Texas**MGA Zone** 51K 385272 mE 7694464 mN 121.8972664 E -20.84635134 S**Habitat** P10c Corymbia zygophylla**Soil** Red sand, no lag gravel**Rock Type** Unknown, sub cropping.

Vegetation Corymbia zygophylla 4.5m PFC 1% over Erythrophleum chlorostachys 2-4m Grevillea eriostachya 2m PFC 2% over Triodia schinzii 1.2m (10%) Jacksonia aculeata 1m Bonamia erecta 0.3m Eriachne lanata 0.4m Calytrix carinata 0.7m Gompholobium simplicifolium 0.6m Amphipogon sericeus 0.3m PFC 25-30%

Veg Condition Excellent**Fire Age** 6 years**Notes**

Species	Phase 1			Phase 2			Comments
	Cover (%)	Height (cm)	Specimen	Cover (%)	Height (cm)	Specimen	
Acacia colei var. colei	0.1	120					
Acacia melleodora	0.1	35					
Acacia sericophylla	0.1	120					
Amphipogon sericeus	0.1	30					
Bonamia erecta	3	30					
Calytrix carinata	0.1	50					
Corymbia zygophylla	1	500					
Dampiera candidans	0.1	30					
Dicrastylis cordifolia	0.1	20					
Dodonaea coriacea	0.1	35					
Eragrostis eriopoda	0.1	20					
Eriachne lanata	0.5	70					
Erythrophleum chlorostachys	0.5	450					
Gompholobium simplicifolium	1.5	50					
Goodenia hartiana	0.1	25					
Grevillea eriostachya	0.1	150					
Grevillea wickhamii subsp. hispidula	0.1	300					
Halgania solanacea var. solanacea	0.1	30					
Indigofera boviperda subsp. eremaea	0.1	20					
Jacksonia aculeata	3	100					
Ptilotus calostachyus	0.1	40					
Scaevola parvifolia subsp. parvifolia	0.1	10					
Sida sp. Pilbara (A.A. Mitchell PRP 1543)	0.1	50					
Tephrosia arenicola	0.1	50					
Trigastrotheca molluginea	0.1	10					
Triodia schinzii	12	50-130					



Rio Tinto Winu - Winu Project**Site** WIN0130**Described by** JP LS**Date** 15/06/2024 **Type** Q

50x50

Season E**Uniformity** Excellent**Location** Revised DE Texas**MGA Zone** 51K 389704 mE 7692704 mN 121.9397485 E -20.86252062 S**Habitat** P1 – Interdunal sand plain**Soil** Deep red sand.**Rock Type** Unknown, sub cropping.

Vegetation Occasional *Owenia reticulata* 7m <1% over *Grevillea wickhamii* 4m *Acacia tumida* var. *kulparn* 3m *Acacia ancistrocarpa* 2m PFC 20% over *Triodia schinzii* 1.2 *Gompholobium simplicifolium* 1m *Seringia exastia* 0.5m *Eriachne lanata* 0.4m *Dicrastylis cordifolia* 0.3m *Petalostylis cassioides* 1.2m PFC 15-20%

Veg Condition Excellent**Fire Age** Long unburnt**Notes**

Species	Phase 1			Phase 2			Comments
	Cover (%)	Height (cm)	Specimen	Cover (%)	Height (cm)	Specimen	
<i>Acacia ancistrocarpa</i>	2	200					
<i>Acacia sericophylla</i>	0.1	300					
<i>Acacia tumida</i> var. <i>kulparn</i>	4	200					
<i>Aristida holathera</i> var. <i>holathera</i>	0.1	30					
<i>Calytrix carinata</i>	0.5	120					
<i>Dampiera cinerea</i>	0.1	15					
<i>Dicrastylis cordifolia</i>	0.1	20					
<i>Dodonaea coriacea</i>	0.1	140					
<i>Eriachne lanata</i>	0.1	40					
<i>Gompholobium simplicifolium</i>	3	100					
<i>Grevillea wickhamii</i> subsp. <i>hispidula</i>	5	400					
<i>Gyrostemon tepperi</i>	0.1	160					
<i>Halgania solanacea</i> var. <i>solanacea</i>	0.1	30					
<i>Indigofera boviparda</i> subsp. <i>eremaea</i>	0.1	20					
<i>Jacksonia aculeata</i>	0.1	50					
<i>Petalostylis cassioides</i>	1	70					
<i>Ptilotus astrolasius</i>	0.1	25					
<i>Scaevola parvifolia</i> subsp. <i>parvifolia</i>	0.1	20					
<i>Seringia exastia</i>	1.5	60					
<i>Trigastrotheca molluginea</i>	0.1	10					
<i>Triodia schinzii</i>	12	30-120					



Rio Tinto Winu - Winu Project**Site** WIN0131**Described by** P1 JP LS P2 JP ND**Date** P1 02/07/2024 P2 1/11/2024**Type** Q

50x50

Season E**Uniformity** Excellent**Location** Rimfire Extension**MGA Zone** 51K 389704 mE 7692704 mN 121.9158119 E -20.81056623 S**Habitat** C4 Open grassland/ claypan**Soil** Pale clay, crust**Rock Type** Unknown, sub cropping.**Vegetation** Scattered *Acacia ancistrocarpa* 2m *Acacia adsurgens* 1.5m PFC <1% over sparse shrubland of *Eremophila latrobei* subsp. 1m and *Acacia bivenosa* PFC 1% over dense mixed grassland of *Triodia epactia* 1m *Aristida inaequiglumis* 0.5m *Themeda triandra* 0.7m**Veg Condition** Excellent**Fire Age** 10 years**Notes**

Species	Phase 1			Phase 2			Comments
	Cover (%)	Height (cm)	Specimen	Cover (%)	Height (cm)	Specimen	
<i>Acacia adsurgens</i>	0.1	70	131-01	0.1	70		
<i>Acacia ancistrocarpa</i>				0.1	0.8		
<i>Acacia bivenosa</i>	0.1	110		0.1	110		
<i>Acacia orthocarpa</i>	0.1	10		0.1	10		
<i>Aristida inaequiglumis</i>	3	110		3	110		
<i>Corchorus sidoides</i> subsp. <i>sidoides</i>	0.1	20		0.1	20		
<i>Dampiera candidans</i>	0.1	30		0.1	30		
<i>Dodonaea coriacea</i>	0.1	90		0.1	90		
<i>Eremophila latrobei</i> subsp. <i>glabra</i>	0.5	100	131-02	0.5	100		
<i>Eriachne lanata</i>				0.1	0.1		
<i>Eriachne mucronata</i>	0.1	30		0.1	30		
<i>Eulalia aurea</i>	6	100		6	100		
<i>Evolvulus alsinoides</i> var. <i>villosicalyx</i>	0.1	20					
<i>Fimbristylis dichotoma</i>	0.1	15	131-04	0.1	15		
<i>Goodenia armitiana</i>	0.1	20		0.1	20		
<i>Indigofera monophylla</i>	0.1	100		0.1	100		
<i>Paraneurachne muelleri</i>	0.1	30		0.1	30		
<i>Ptilotus astrolasius</i>	0.1	20					
<i>Sida arenicola</i>	0.1	110		0.1	110		
<i>Sida</i> sp. <i>Excedentifolia</i> (J.L. Egan 1925)	0.1	30	131-07	0.1	30		
<i>Sida</i> sp. <i>Pilbara</i> (A.A. Mitchell PRP 1543)	0.1	30	131-06	0.1	30		
<i>Solanum centrale</i>	0.1	40		0.1	40		
<i>Solanum diversiflorum</i>	0.1	40		0.1	40		
<i>Tephrosia arenicola</i>	0.1	50		0.1	50		
<i>Themeda triandra</i>	6	100	131-03	6	100		
<i>Trigastrotheca molluginea</i>	0.1	10		0.1	10		
<i>Triodia brizoides</i>	12	100		12	100		
<i>Triodia epactia</i>	2	100		2	100		
<i>Sida echinocarpa</i>	0.1	20	131-05	0.1	20	Recol	



Rio Tinto Winu - Winu Project**Site** WIN0132**Described by** P1 JP LS P2 JP ND**Date** P1 02/07/2024 P2 1/11/2024**Type** Q

50x50

Season E**Uniformity** Excellent**Location** Rimfire Extension**MGA Zone** 51K 387838 mE 7699904 mN 121.9222763 E -20.79736222 S**Habitat** Interdunal sand plain P20 – Acacia ancistrocarpa Acacia orthocarpa Shrubland**Soil** Deep orange sand, coarse grains at surface.**Rock Type** Unknown, sub cropping.**Vegetation** Acacia ancistrocarpa 1.5m Acacia orthocarpa 1.2m with occasional Erythrophleum chlorostachys 2.5m and Grevillea wickhamii 3m PFC 6-10% over Triodia schinzii 1.2m (40%) Indigofera boviparda 0.4m Dicrastylis cordifolia 0.4m Bonamia erecta 0.3m Eragrostis eriopoda 0.3m and occasional Tribulopsis marliesiae 0.1m PFC 50%.**Veg Condition** Excellent**Fire Age** 10 years**Notes**

Species	Phase 1			Phase 2			Comments
	Cover (%)	Height (cm)	Specimen	Cover (%)	Height (cm)	Specimen	
Abildgaardia oxystachya	0.1	5		0.1	5		
Acacia ancistrocarpa	7	150		7	150		
Acacia orthocarpa	5	120		5	120		
Amphipogon sericeus	0.1	50		0.1	50		
Aristida contorta	0.1	10					
Bonamia erecta	1	30		1	30		
Calytrix carinata	0.1	40		0.1	40		
Dicrastylis cordifolia	0.1	30		0.1	50		
Dodonaea coriacea	0.1	50		0.5	50		
Eragrostis eriopoda	0.1	40		0.1	40		
Eriachne lanata	0.1	40		0.1	40		
Erythrophleum chlorostachys	0.5	250		0.5	250		
Evolvulus alsinoides var. villosicalyx	0.1	20		0.1	20		
Goodenia armitiana	0.1	15		0.1	15		
Grevillea wickhamii subsp. hispidula	0.1	280		0.1	280		
Halgania solanacea var. solanacea	0.1	20		0.1	20		
Indigofera boviparda subsp. eremaea	0.5	40		0.5	40		
Jacksonia aculeata	0.1	30		0.1	30		
Paraneurachne muelleri	0.1	30		0.1	30		
Ptilotus astrolasius	0.1	20					
Scaevola parvifolia subsp. parvifolia	0.1	10		0.1	10		
Tephrosia arenicola	0.1	60		0.1	60		
Tribulopsis marliesiae	0.1	25		0.1	30		
Trigastroteca molluginea				0.1	10		
Triodia schinzii	40	120		40	120		



Rio Tinto Winu - Winu Project**Site** WIN0133**Described by** P1 JP LS P2 JP ND**Date** P1 02/07/2024 P2 1/11/2024**Type** Q

50x50

Season E**Uniformity** Excellent**Location** Rimfire Extension**MGA Zone** 51K 383665 mE 7700453 mN 121.8822216 E -20.79214591 S**Habitat** Foot of sand dune – R2**Soil** Red sand, scattered lateritic gravel.**Rock Type** Unknown, sub cropping ferricrete expected.**Vegetation** Grevillea wickhamii 3m Acacia ancistrocarpa 1.5m PFC 6% over Triodia epactia 1m Triodia brizoides 0.8m (20%) Triodia schinzii 1m Acacia hilliana 0.3m (25%) Jacksonia aculeata 1m Calytrix carinata 0.6m Ptilotus calostachyus 1m PFC 50%**Veg Condition** Excellent**Fire Age** 10 years**Notes**

Species	Phase 1			Phase 2			Comments
	Cover (%)	Height (cm)	Specimen	Cover (%)	Height (cm)	Specimen	
Abildgaardia oxystachya				0.1	10		
Acacia ancistrocarpa	0.5	150		0.5	150		
Acacia hilliana	0.1	40		0.1	40		
Acacia hilliana	0.1	20	133-01	0.1	20		
Calytrix carinata	0.1	100		0.1	100		
Dampiera candidans	0.1	30		0.1	30		
Dicrastylis cordifolia	0.1	30		0.1	30		
Eriachne lanata				0.1	40		
Goodenia azurea subsp. hesperia	0.1	20		0.1	20		
Goodenia hartiana	0.1	30		0.1	30		
Grevillea eriostachya	0.1	200		0.1	200		
Grevillea wickhamii subsp. hispidula	5	300		5	300		
Hakea lorea subsp. lorea	0.1	220		0.1	220		
Halgania solanacea var. solanacea	0.1	20		0.1	20		
Indigofera boviparda subsp. eremaea	0.1	30					
Jacksonia aculeata	0.5	100		0.5	100		
Mirbelia viminalis	1	120		1	120		
Orianthera centralis	0.1	30		0.1	30		
Paraneurachne muelleri	0.1	40		0.1	40		
Petalostylis cassioides	0.1	50		0.1	50		
Ptilotus astrolasius				0.1	20		
Ptilotus calostachyus	0.1	40		0.1	40		
Scaevola parvifolia subsp. parvifolia	0.1	20		0.1	20		
Seringia exastia	0.1	40		0.1	40		
Tephrosia arenicola	0.1	60		0.1	60		
Trigastrotheca molluginea	0.1	10		0.1	10		
Triodia brizoides	25	70-120		25	70-120		
Triodia epactia	15	120		15	120		
Triodia schinzii	0.1	120		0.1	120		



Rio Tinto Winu - Winu Project**Site** WIN0134**Described by** P1 JP LS P2 JP ND**Date** P1 02/07/2024 P2 28/10/2024**Type** Q

50x50

Season E**Uniformity** Excellent**Location** Rimfire Extension**MGA Zone** 51K 389119 mE 7697599 mN 121.934437 E -20.81826308 S**Habitat** Claypan/ grassland C3**Soil** Orange cracking clay**Rock Type** Unknown, sub cropping.**Vegetation** Grevillea wickhamii 3m Acacia ancistrocarpa 2m with Acacia orthocarpa 1.5m and Acacia bivenosa 1.4m PFC 2% over Triodia epactia 0.5-1m (40%) with Leptosema anomalum 0.4m Eulalia aurea 0.5m Indigofera monophylla 0.5m Trigastrotheca molluginea 0.2m PFC 45%**Veg Condition** Excellent**Fire Age** 10 years**Notes**

Species	Phase 1			Phase 2			Comments
	Cover (%)	Height (cm)	Specimen	Cover (%)	Height (cm)	Specimen	
Acacia ancistrocarpa	0.5	200		0.5	200		
Acacia bivenosa	1.5	120		1.5	120		
Acacia orthocarpa	0.5	120		0.5	120		
Acacia stellaticeps	1	140		1	140		
Aristida contorta	0.1	5					
Aristida inaequiglumis	0.1	40		0.1	100		
Cassytha capillaris	0.1	50		0.1	50		
Eriachne ciliata	0.1	10		0.1	10		
Eulalia aurea	3	80		3	80		
Fimbristylis dichotoma	0.1	10		0.1	10		
Goodenia armitiana	0.1	10		0.1	10		
Grevillea wickhamii subsp. hispidula	0.1	350		0.1	350		
Indigofera monophylla	0.1	110		0.1	110		
Leptosema anomalum	0.1	60		0.1	60		
Paraneurachne muelleri	0.1	30		0.1	30		
Polycarpaea corymbosa var. corymbosa	0.1	10		0.1	10		
Polygala isingii	0.1	2		0.1	2		
Sporobolus australasicus	0.1	5		0.1	5		
Tephrosia arenicola	0.1	60		0.1	60		
Trianthema pilosum	0.1	2					
Trianthema triquetrum	0.1	1		0.1	1		
Trigastrotheca molluginea	0.1	10		0.1	10		
Triodia brizoides	1	40-100		1	40-100		
Triodia epactia	35	30-100		35	30-100		



Rio Tinto Winu - Winu Project**Site** WIN0135**Described by** JP ND**Date** 03/07/2024 **Type** Q

50x50

Season E**Uniformity** Excellent**Location** Revised DE Texas Bore Field**MGA Zone** 51K 390983 mE 7691192 mN 121.9519469 E -20.87625613 S**Habitat** Interdunal sandplain P21 – Acacia sericophylla shrubland**Soil** Deep red sand**Rock Type** Unknown, sub cropping.**Vegetation** Owenia reticulata 7m PFC 1% over Acacia sericophylla 2.5m Hakea lorea 2.5m Clerodendrum sp. 1.2m PFC 15% over Triodia schinzii 0.8-1.2m (15%) Bonamia erecta 0.3m Dampiera candidans 0.2m Scaevola parviflora 0.2m Indigofera boviparda 0.3m Newcastleia cladotricha 0.3m PFC 20-25%**Veg Condition** Excellent**Fire Age** 10 years**Notes** Small area, fringing Study Area boundary.

Species	Phase 1			Phase 2			Comments
	Cover (%)	Height (cm)	Specimen	Cover (%)	Height (cm)	Specimen	
Acacia sericophylla	6	260					
Acacia tumida var. kulparn	0.1	100					
Amphipogon sericeus	0.1	40					
Aristida holathera var. holathera	0.1	30					
Bonamia erecta	2	30					
Calytrix carinata	0.1	50					
Cassytha capillaris	0.1	20					
Clerodendrum tomentosum var. tomentosum	0.5	190	135-01				
Corchorus sidoides subsp. sidoides	0.1	1					
Dicrastylis doranii	0.1	30					
Dicrastylis doranii	0.5	30					
Dodonaea coriacea	0.1	170					
Eragrostis eriopoda	0.1	40					
Eriachne lanata	0.1	50					
Eriachne obtusa	0.1	60					
Euphorbia sp. Indet	0.1	10	135-03				
Gompholobium simplicifolium	0.5	50					
Grevillea wickhamii subsp. hispidula	0.1	170					
Gyrostemon tepperi	0.1	150					
Hakea lorea subsp. lorea	3	240					
Halgania solanacea var. solanacea	0.1	20					
Hibiscus leptocladus	0.1	60					
Indigofera boviparda subsp. eremaea	0.1	30	135-04				
Jacksonia aculeata	0.1	80					
Newcastleia cladotricha	0.1	50					
Polygala isingii	0.1	5	135-02				
Ptilotus arthrolasius	0.1	20					
Ptilotus astrolasius	0.1	40					
Ptilotus calostachyus	0.1	60					
Scaevola parvifolia subsp. parvifolia	0.1	20					
Trichodesma zeylanicum var. zeylanicum	0.1	10					
Trigastrotheca molluginea	0.1	10					
Triodia schinzii	15	50-140					



Rio Tinto Winu - Winu Project**Site** WIN136**Described by** JP ND**Date** 03/07/2024 **Type** Q

50x50

Season E**Uniformity** Excellent**Location** Revised DE Texas Bore Field**MGA Zone** 51K 387066 mE 7693194 mN 121.9144251 E -20.85793496 S**Habitat** Interdunal sandplain P7 Calytrix carinata**Soil** Deep red sand**Rock Type** Unknown, sub cropping.

Vegetation Emergent Owenia reticulata 6m PFC 1% over scattered shrubs of Grevillea wickhamii 3m Acacia ancistrocarpa 3m PFC 1% over Calytrix carinata 1.2m (10-20%) with Triodia schinzii 0.4-1m (20%) with occasional Acacia tumida var. kulparn 1m Jacksonia aculeata 0.5m Ptilotus astrolasius 0.2m PFC 50%

Veg Condition Excellent**Fire Age** 10 years**Notes** Understory dominated by Calytrix carinata

Species	Phase 1			Phase 2			Comments
	Cover (%)	Height (cm)	Specimen	Cover (%)	Height (cm)	Specimen	
Acacia tumida var. kulparn	0.1	120					
Amphipogon sericeus	0.1	30					
Bonamia erecta	0.1	20					
Calytrix carinata	18	80-120					
Dicrastylis cordifolia	0.1	20					
Eriachne lanata	0.1	40					
Gompholobium simplicifolium	0.1	50					
Grevillea eriostachya	0.1	140					
Grevillea wickhamii subsp. hispidula	0.1	300					
Hakea macrocarpa	0.1	140					
Indigofera boviparda subsp. eremaea	0.1	20					
Jacksonia aculeata	0.1	50					
Petalostylis cassioides	0.1	30					
Ptilotus astrolasius	0.1	40					
Seringia exastia	0.1	40					
Trigastrotheca molluginea	0.1	10					
Triodia schinzii	25	40-110					



Rio Tinto Winu - Winu Project**Site** WIN0137**Described by** ND JP**Date** 03/07/2024 **Type** Q

50x50

Season E**Uniformity** Excellent**Location** Revised DE Texas Bore Field**MGA Zone** 51K 3857756 mE 7693627 mN 121.9020455 E -20.853944 S**Habitat** Interdunal sandplain P7 Calytrix carinata**Soil** Deep red sand, some coarse sand at surface**Rock Type** Unknown, sub cropping.**Vegetation** Emergent Grevillea wickhamii 3m and rarely Corymbia zygophylla 4.5m PFC <1% over Calytrix carinata 1.3m (20%) Triodia schinzii 0.6-1.2m (20%) and Acacia tumida var. kulparn 1.5m PFC 45%.**Veg Condition** Excellent**Fire Age** 10 years**Notes** Understory dominated by Calytrix carinata

Species	Phase 1			Phase 2			Comments
	Cover (%)	Height (cm)	Specimen	Cover (%)	Height (cm)	Specimen	
Acacia stellaticeps	0.1	30					
Acacia tumida var. kulparn	0.1	100					
Bonamia erecta	0.1	50					
Calytrix carinata	15	130					
Dampiera cinerea	0.1	40					
Dicrastylis cordifolia	0.1	10					
Dicrastylis doranii	0.1	10					
Eriachne lanata	0.1	40					
Gompholobium simplicifolium	0.1	40					
Grevillea wickhamii subsp. hispidula	0.1	300					
Halgania solanacea var. solanacea	0.1	10					
Indigofera boviparda subsp. eremaea	0.1	20					
Jacksonia aculeata	0.1	30					
Scaevola parvifolia subsp. parvifolia	0.1	20					
Seringia exastia	0.1	40					
Tephrosia arenicola	0.1	40					
Triodia schinzii	20	40-120					
Unknown sp. Indet. (Malvaceae)	0.1	30	137-01				



Rio Tinto Winu - Winu Project**Site** WIN0138**Described by** JP ND**Date** 04/07/2024 **Type** Q

50x50

Season E**Uniformity** Excellent**Location** Revised DE Texas Bore Field**MGA Zone** 51K 382928 mE 7694722 mN 121.874757 E -20.84387407 S**Habitat** D4 Melaleuca lasiandra sand dune & associated swale**Soil** Deep red sand on dune, pale creamy clay on swale**Rock Type** No outcropping cover. Rock type unknown

Vegetation Melaleuca lasiandra 2m Thinicola incana 2.2m with Acacia monticola 1.8m Acacia colei var. colei 2m Acacia ancistrocarpa 1.5m PFC 10% over Jacksonia aculeata 1m Triodia schinzii 1m Mirbelia viminalis 1.2m Eulalia aurea 1m Triodia epactia 1m Acacia tumida var. kulparn 0.9m Dicrastylis doranii 0.3m Scaevola parviflora 0.3m Aristida holathera var. holathera 0.4m PFC 10%

Veg Condition Excellent**Fire Age** 10 years**Notes** Very low sand dune, quadrat includes swale vegetation with different soil.

Species	Phase 1			Phase 2			Comments
	Cover (%)	Height (cm)	Specimen	Cover (%)	Height (cm)	Specimen	
Acacia ancistrocarpa	0.1	120					
Acacia colei var. colei	0.1	100					
Acacia monticola	3	180					
Acacia sabulosa	0.1	4					
Acacia sericophylla	0.1	90					
Acacia tumida var. kulparn	0.5	150					
Amphipogon sericeus	0.1	40					
Aristida holathera var. holathera	0.1	30					
Bonamia alatisemina	0.1	10					
Calytrix carinata	0.1	120					
Dampiera cinerea	0.1	10					
Dicrastylis cordifolia	0.1	30					
Dicrastylis doranii	0.1	20					
Dodonaea coriacea	0.1	30					
Eragrostis eriopoda	0.1	40					
Eriachne aristidea	0.1	30					
Eriachne helmsii	0.1	60					
Eriachne lanata	0.1	40					
Eulalia aurea	0.1	40					
Euphorbia myrtoides	0.1	5					
Euploca transformis	0.1	10					
Gompholobium simplicifolium	0.1	60					
Goodenia hartiana	0.1	20					
Grevillea eriostachya	0.1	160					
Grevillea stenobotrya	0.1	160					
Grevillea wickhamii subsp. hispidula	0.1	100					
Halgania solanacea var. solanacea	0.1	20					
Jacksonia aculeata	2	120					
Melaleuca lasiandra	7	160					
Mirbelia viminalis	0.5	120					
Panicum australiense var. australiense	0.1	10					
Paractaenum refractum	0.1	10					
Paranotis pterospora	0.1	10					
Petalostylis cassioides	0.1	40					
Pimelea ammodarid	0.1	100					
Scaevola parvifolia subsp. parvifolia	0.1	20					
Scaevola parvifolia subsp. parvifolia	0.1	20					
Sida sp. Pindan (B.G. Thomson 3398)	0.1	40					
Swainsona microphylla	0.1	40					
Thinicola incana	0.5	200					
Trigastrotheca molluginea	0.1	10					
Triodia epactia	2	60					
Triodia schinzii	4	40-120					



Rio Tinto Winu - Winu Project**Site** WIN0139**Described by** JP ND**Date** 04/07/2024 **Type** Q

50x50

Season E**Uniformity** Excellent**Location** Revised DE Texas Bore Field**MGA Zone** 51K 378444 mE 7696354 mN 121.8317792 E -20.82884213 S**Habitat** P8 Acacia eriopoda Shrubland. Interdunal sandplain.**Soil** Deep red sand**Rock Type** No outcropping cover. Rock type unknown**Vegetation** Emergent *Corymbia zygophylla* 5m PFC 1% over *Acacia eriopoda* 3m (5%) *Acacia drepanocarpa* 3m *Acacia ancistrocarpa* 2m PFC 5-10% over *Triodia schinzii* 0.5-1.2m (20%) *Jacksonia aculeata* 0.5m *Bonamia erecta* 0.4m *Dicrastylis cordifolia* 0.3m PFC 25-30%**Veg Condition** Excellent**Fire Age** 10 years**Notes** No effective disturbance

Species	Phase 1			Phase 2			Comments
	Cover (%)	Height (cm)	Specimen	Cover (%)	Height (cm)	Specimen	
<i>Acacia ancistrocarpa</i>	1	200					
<i>Acacia drepanocarpa</i> subsp. <i>latifolia</i>	0.1	250					
<i>Acacia eriopoda</i>	6	300					
<i>Acacia monticola</i>	0.5	170					
<i>Amphipogon sericeus</i>	0.1	40					
<i>Bonamia alatisemina</i>	0.1	15					
<i>Bonamia erecta</i>	0.5	40					
<i>Calytrix carinata</i>	0.1	40					
<i>Corymbia zygophylla</i>	0.5	400					
<i>Dampiera candidans</i>	0.1	50					
<i>Dicrastylis cordifolia</i>	0.1	30					
<i>Dodonaea coriacea</i>	0.1	100					
<i>Eriachne lanata</i>	0.1	30					
<i>Gompholobium simplicifolium</i>	0.5	50					
<i>Goodenia hartiana</i>	0.1	20	N=11				
<i>Grevillea wickhamii</i> subsp. <i>hispidula</i>	0.1	160					
<i>Gyrostemon tepperi</i>	0.1	100					
<i>Hakea macrocarpa</i>	0.1	120					
<i>Halgania solanacea</i> var. <i>solanacea</i>	0.1	20					
<i>Jacksonia aculeata</i>	2	100					
<i>Leptosema anomalum</i>	0.1	25					
<i>Orianthera centralis</i>	0.1	30					
<i>Petalostylis cassioides</i>	0.1	120					
<i>Scaevola parvifolia</i> subsp. <i>parvifolia</i>	0.1	40					
<i>Triodia schinzii</i>	20	50-120					



Rio Tinto Winu - Winu Project**Site** WIN0140**Described by** ND JP**Date** 04/07/2024 **Type** Q

50x50

Season E**Uniformity** Excellent**Location** Revised DE Texas Bore Field**MGA Zone** 51K 378278 mE 7696243 mN 121.8301765 E -20.82983404 S**Habitat** P15b Corymbia candida Woodland**Soil** Red brown sandy clay**Rock Type** No outcropping cover. Rock type unknown**Vegetation** Corymbia candida 8m PFC 3% over Acacia ancistrocarpa 1.7m Acacia monticola 1.7m PFC 2-10% over Triodia epactia 1m Eulalia aurea 0.8m Indigofera monophylla 0.7m PFC 40%.**Veg Condition** Excellent**Fire Age** 6-10 years**Notes** No effective disturbance

Species	Phase 1			Phase 2			Comments
	Cover (%)	Height (cm)	Specimen	Cover (%)	Height (cm)	Specimen	
Acacia ancistrocarpa	1	150					
Acacia monticola	2	179					
Acacia sericophylla	0.1	120					
Aristida contorta	0.1	30					
Aristida inaequiglumis	0.1	60					
Arivela viscosa	0.1	10					
Bonamia alatisemina	0.1	10					
Bulbostylis barbata	0.1	5					
Cassytha capillaris	0.1	30					
Corymbia candida	4	800					
Dampiera candidans	0.1	50					
Eriachne aristidea	0.1	5					
Eriachne ciliata	0.1	5					
Eulalia aurea	15	100					
Euploca cunninghamii	0.1	5	140-02				
Evolvulus alsinoides var. villosicalyx	0.1	10					
Fimbristylis dichotoma	0.1	40	140-04				
Goodenia armitiana	0.1	5					
Indigofera monophylla	0.5	130					
Leptosema anomalum	0.1	10					
Paraneurachne muelleri	0.1	50					
Pluchea tetranthera	0.1	30					
Polycarpaea corymbosa var. corymbosa	0.1	5					
Polygala isingii	0.1	5					
Sida arenicola	0.1	100					
Synaptantha tillaeacea var. tillaeacea	0.1	3	140-03				
Trigastrotheca molluginea	0.1	20					
Triodia epactia	25	50					
Tripogonella lolliformis	0.1	5					





Rio Tinto Winu - Winu Project**Site** WIN0141**Described by** ND JP**Date** 05/07/2024 **Type** Q

50x50

Season E**Uniformity** Excellent**Location** Revised DE Texas Bore Field**MGA Zone** 51K 377292 mE 7696531 mN 121.82097486 E -20.79467238 S**Habitat** P18 Corymbia opaca Woodland**Soil** Pale orange sandy clay**Rock Type** No outcropping cover. Rock type unknown

Vegetation Corymbia opaca 8, PFC 3% over Acacia colei var. colei 3.5m Acacia ancistrocarpa 2.8m PFC 10% over Triodia schinzii 0.8-1.2m (25%) Triodia epactia 0.5-1.9m Indigofera monophylla 0.6m Bonamia erecta 0.3m Eriachne lanata 0.4m Paraneurachne muelleri 0.4m Amphipogon sericeus (glabrous form) 0.3m PFC 30-40%

Veg Condition Excellent**Fire Age** 10 years**Notes** No effective disturbance

Species	Phase 1			Phase 2			Comments
	Cover (%)	Height (cm)	Specimen	Cover (%)	Height (cm)	Specimen	
Acacia ancistrocarpa	8	240					
Acacia colei var. colei	0.1	350					
Acacia monticola	0.1	180					
Amphipogon sericeus (non-hairy form)	0.1	30	141-02				
Aristida holathera var. holathera	0.1	10					
Aristida inaequiglumis	0.1	50					
Bonamia erecta	0.1	20					
Bulbostylis barbata	0.1	2					
Calytrix carinata	0.1	40					
Cassytha capillaris	0.1	10					
Codonocarpus cotinifolius	0.1	80					
Corymbia opaca	3	800					
Dampiera candidans	0.1	30					
Eragrostis eriopoda	0.1	40					
Eriachne aristidea	0.1	5					
Eriachne ciliata	0.1	5					
Eriachne lanata	0.1	20					
Eriachne obtusa	0.1	30	141-01				
Eulalia aurea	0.5	50					
Goodenia armitiana	0.1	30					
Halgania solanacea var. solanacea	0.1	40					
Indigofera monophylla	0.5	60					
Leptosema anomalum	0.1	30					
Paraneurachne muelleri	0.1	30					
Polycarpaea corymbosa var. corymbosa	0.1	5					
Polygala isingii	0.1	10					
Ptilotus astrolasius	0.1	20					
Ptilotus calostachyus	0.1	40					
Sporobolus australasicus	0.1	5					
Triodia epactia	5	50-90					
Triodia schinzii	2.5	50-120					



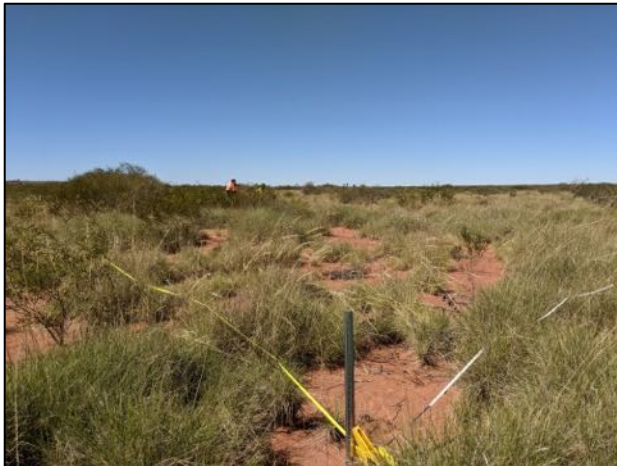
Rio Tinto Winu - Winu Project**Site** WIN0142**Described by** ND JP**Date** 05/07/2024 **Type** Q

50x50

Season E**Uniformity** Excellent**Location** Revised DE Texas Bore Field**MGA Zone** 51K 378734 mE 7693245 mN 121.8343496 E -20.85694766 S**Habitat** P20 Acacia ancistrocarpa – Acacia orthocarpa Shrubland (Interdunal Sandplain)**Soil** Red sand over clay, small ironstone lag gravel.**Rock Type** No outcropping cover. Rock type unknown**Vegetation** Grevillea wickhamii 3m Acacia ancistrocarpa 1.7m Acacia orthocarpa 1.5m PFC 6-10% over Triodia schinzii 0.5-1.2m (15%) Calytrix carinata 0.5m Goodenia hartiana 0.4m Eulalia aurea 0.5m Trigastrotheca molluginea 0.1m PFC 20-25%.**Veg Condition** Excellent**Fire Age** 5-10 years**Notes** No effective disturbance

Species	Phase 1			Phase 2			Comments
	Cover (%)	Height (cm)	Specimen	Cover (%)	Height (cm)	Specimen	
Acacia ancistrocarpa	2	180					
Acacia monticola	0.1	100					
Acacia orthocarpa	3	150					
Amphipogon sericeus (non-hairy form)	0.1	50					
Bonamia alatisemina	0.1	20					
Calytrix carinata	0.1	80					
Cassytha capillaris	0.1	30					
Dampiera candidans	0.1	40					
Dicrastylis cordifolia	0.1	40					
Eragrostis eriopoda	0.1	20					
Eriachne lanata	0.1	30-80					
Goodenia armitiana	0.1	25					
Goodenia hartiana	0.1	25					
Grevillea wickhamii subsp. hispidula	0.1	300					
Halgania solanacea var. solanacea	0.1	30					
Paraneurachne muelleri	0.1	40					
Ptilotus astrolasius	0.1	20					
Scaevola parvifolia subsp. parvifolia	0.1	10					
Sida arenicola	0.1	70					
Tephrosia arenicola	0.1	50					
Trigastrotheca molluginea	0.1	20					
Triodia brizoides	0.5	40-100					
Triodia epactia	2	80-150					
Triodia schinzii	20	50-120					





Rio Tinto Winu - Winu Project**Site** WIN0143**Described by** ND JP**Date** 05/07/2024 **Type** Q

50x50

Season E**Uniformity** Excellent**Location** Revised DE Texas Bore Field**MGA Zone** 51K 383022 mE 7693690 mN 121.87559113 E -20.8532032 S**Habitat** Melaleuca lasiandra Sand Dune D4**Soil** Deep red sand.**Rock Type** No outcropping cover. Rock type unknown**Vegetation** Melaleuca lasiandra 1.8m Thinicola incana 1.6m Acacia ancistrocarpa 1.6m PFC 8-10% over Triodia schinzii 0.5-1.5m (5%) Acacia stellaticeps 1m Jacksonia aculeata 1m Eragrostis eriopoda 0.3m Panicum australiensis 0.1m PFC 20%**Veg Condition** Excellent**Fire Age** 5-10 years**Notes** No effective disturbance. Quadrat extends onto swale containing dissimilar species to sand dune.

Species	Phase 1			Phase 2			Comments
	Cover (%)	Height (cm)	Specimen	Cover (%)	Height (cm)	Specimen	
Abildgaardia oxystachya	0.1	20					
Acacia ancistrocarpa	1	170					
Acacia sabulosa	0.1	140					
Acacia sericophylla	0.1	50					
Acacia stellaticeps	1.5	60					
Aristida holathera var. holathera	0.1	30					
Bonamia alatisemina	0.1	15	143-02				
Calytrix carinata	0.1	100					
Dampiera candicans	0.1	30					
Dicrastylis cordifolia	0.1	20					
Dodonaea coriacea	0.1	40					
Eragrostis eriopoda	0.1	30					
Eriachne aristidea	0.1	25					
Eriachne helmsii	0.1	40					
Eriachne lanata	0.1	30					
Euphorbia myrtilloides	0.1	15					
Goodenia armitiana	0.1	20					
Grevillea eriostachya	0.1	120					
Grevillea stenobotrya	0.1	250					
Grevillea wickhamii subsp. hispidula	0.1	60					
Halgania solanacea var. solanacea	0.1	30					
Jacksonia aculeata	0.1	100					
Melaleuca lasiandra	7.5	200					
Panicum australiense var. australiense	0.1	10					
Paractaenium refractum	0.1	30					
Paranotis pterospora	0.1	50					
Polygala isingii	0.1	5					
Scaevola parvifolia subsp. parvifolia	0.1	40					
Seringia exastia	0.1	60					
Sida sp. Pilbara (A.A. Mitchell PRP 1543)	0.1	100					
Sida sp. Pindan (B.G. Thomson 3398)	0.1	20	143-01				
Sida sp. Western sand dunes (P.K. Latz 11980)	0.1	130					
Stackhousia sp. swollen gynophore (W.R. Barker 2041)	0.1	30					
Thinicola incana	0.1	150					
Triodia schinzii	6	60-120					



Rio Tinto Winu - Winu Project**Site** WIN0144**Described by** ND JP**Date** 06/07/2024 **Type** Q

50x50

Season E**Uniformity** Excellent**Location** Revised DE Texas Bore Field**MGA Zone** 51K 380314 mE 7699904 mN 121.84999157 E -20.79689302 S**Habitat** Rocky plain, Corymbia candida over Triodia brizoides P15c**Soil** Red clay with red sand on top. Ironstone lag gravel with some larger rocks (20mm)**Rock Type** No outcropping cover. Rock type unknown**Vegetation** Corymbia candida 8m PFC 1% over Acacia ancistrocarpa 2.5m Grevillea wickhamii 2m Acacia monticola 2m PFC 2-4% over Triodia brizoides 0.5-1m (30%) Indigofera monophylla 1.5m Acacia adsurgens 1m PFC 35%**Veg Condition** Excellent**Fire Age** 5-10 years**Notes** No effective disturbance.

Species	Phase 1			Phase 2			Comments
	Cover (%)	Height (cm)	Specimen	Cover (%)	Height (cm)	Specimen	
Abildgaardia oxystachya	0.1	10		0.1	10		
Acacia adsurgens	0.1	150		0.1	150		
Acacia ancistrocarpa	4	250		4	250		
Acacia colei var. colei	0.1	160		0.1	160		
Acacia drepanocarpa subsp. latifolia	0.1	200		0.1	200		
Acacia monticola	0.1	140		0.1	140		
Aristida holathera var. holathera				0.1	40		
Bonamia alatisemina				0.1	5		
Bulbostylis barbata	0.1	5		0.1	5		
Corymbia candida	2	800		2	800		
Eriachne ciliata	0.1	5		0.1	5		
Goodenia armitiana	0.1	5					
Grevillea wickhamii subsp. hispidula	0.1	100		0.1	100		
Halgania solanacea var. solanacea	0.1	40		0.1	40		
Indigofera monophylla	0.1	150		0.1	150		
Paraneurachne muelleri	0.1	30		0.1	30		
Polycarpaea corymbosa var. corymbosa	0.1	5		0.1	5		
Polygala isingii	0.1	5	144-01				
Ptilotus astrolasius	0.1	40		0.1	40		
Sporobolus australasicus				0.1	4		
Tephrosia arenicola	0.1	40		0.1	40		
Tribulus hirsutus				0.1	5		
Trigastrotecha molluginea	0.1	10		0.1	10		
Triodia brizoides	50	50-100		50	50-100		





Rio Tinto Winu - Winu Project**Site** WIN0145**Described by** ND JP**Date** 06/07/2024 **Type** Q

50x50

Season E**Uniformity** Excellent**Location** Revised DE Texas Bore Field**MGA Zone** 51K 383061 mE 7691774 mN 121.8758373 E -20.87051486 S**Habitat** Melaleuca lasiandra sand dune D4**Soil** Deep red sand**Rock Type** No outcropping cover. Rock type unknown**Vegetation** Melaleuca lasiandra 1.5m with Acacia tumida var. kulparn 1m PFC 8% over Triodia ?pungens (10%), Mirbelia viminalis 0.7m Jacksonia aculeata 0.8m Gompholobium simplicifolium 0.6m Calytrix carinata 0.5m PFC 30%.**Veg Condition** Excellent**Fire Age** 10 years**Notes** No effective disturbance.

Species	Phase 1			Phase 2			Comments
	Cover (%)	Height (cm)	Specimen	Cover (%)	Height (cm)	Specimen	
Acacia drepanocarpa subsp. latifolia	0.1	20					
Acacia tumida var. kulparn	0.1	160					
Aristida holathera var. holathera	0.1	20					
Bonamia alatisemina	0.1	10					
Calytrix carinata	0.1	30					
Cassytha capillaris	0.1	40					
Dampiera cinerea	0.1	50					
Dicrastylis cordifolia	0.1	30					
Dicrastylis cordifolia	0.1	10					
Eragrostis eriopoda	0.1	20					
Eriachne aristidea	0.1	30					
Eriachne helmsii	0.1	30					
Gompholobium simplicifolium	0.1	60					
Grevillea eriostachya	0.1	40					
Jacksonia aculeata	0.1	80					
Melaleuca lasiandra	6	150	145-02				
Mirbelia viminalis	0.1	120					
Newcastelia cladotricha	0.1	20					
Orianthera centralis	0.1	50					
Panicum australiense var. australiense	0.1	10					
Paractaenum refractum	0.1	10					
Paranotis pterospora	0.1	10					
Polygala isingii	0.1	1					
Scaevola parvifolia subsp. parvifolia	0.1	20					
Triodia schinzii	1	100					
Triodia sp.?pungens	17	50-120	145-01				



Rio Tinto Winu - Winu Project**Site** WIN0146**Described by** ND JP**Date** 07/07/2024 **Type** Q

50x50

Season E**Uniformity** Excellent**Location** Revised DE Texas Bore Field**MGA Zone** 51K 379277 mE 7697688 mN 121.8398759 E -20.8168452 S**Habitat** R1 rocky claypan.**Soil** Brown clay with thin layer of red sand on top, Ironstone lag gravel.**Rock Type** No outcropping cover. Rock type unknown**Vegetation** Occasional *Corymbia opaca* 4m and *Corymbia candida* 5m over *Grevillea wickhamii* 4m *Acacia monticola* 1.5m *Acacia ancistrocarpa* 1m PFC 2-4% over *Triodia brizoides* 0.5-1m (8%) *Triodia epactia* 0.6-1.2m *Acacia hilliana* 0.3m *Acacia adoxa* 0.4m *Cynodon anisocarpa* 0.05m PFC 10-15%.**Veg Condition** Excellent**Fire Age** 10+ years**Notes** No effective disturbance.

Species	Phase 1			Phase 2			Comments
	Cover (%)	Height (cm)	Specimen	Cover (%)	Height (cm)	Specimen	
<i>Abildgaardia oxystachya</i>	0.1	10					
<i>Acacia adoxa</i> var. <i>adoxo</i>	1	40					
<i>Acacia ancistrocarpa</i>	1	150					
<i>Acacia hilliana</i>	1	40					
<i>Acacia monticola</i>	2	150					
<i>Amphipogon sericeus</i> (non-hairy form)	0.1	30					
<i>Bulbostylis barbata</i>	0.1	5					
<i>Calytrix carinata</i>	0.1	10					
<i>Cassytha capillaris</i>	0.1	20					
<i>Cynodon anisocarpa</i>	0.1	10					N=1735
<i>Dampiera candidans</i>	0.1	50					
<i>Eriachne ciliata</i>	0.1	10					
<i>Eriachne lanata</i>	0.1	50					
<i>Euploca pachyphylla</i>	0.1	25	146-02				
<i>Fimbristylis dichotoma</i>	0.1	20	146-01				
<i>Goodenia armitiana</i>	0.1	25					
<i>Grevillea wickhamii</i> subsp. <i>hispidula</i>	0.1	180					
<i>Halgania solanacea</i> var. <i>solanacea</i>	0.1	40					
<i>Mirbelia viminalis</i>	0.1	100					
<i>Polycarpaea corymbosa</i> var. <i>corymbosa</i>	0.1	5					
<i>Portulaca oleracea</i>	0.1	2					
<i>Ptilotus exaltatus</i>	0.1	30					
<i>Sida arenicola</i>	0.1	40					
<i>Sporobolus australasicus</i>	0.1	5					
<i>Tephrosia arenicola</i>	0.1	50					
<i>Trianthema pilosum</i>	0.1	4					
<i>Trianthema triquetrum</i>	0.1	10					
<i>Tribulus hirsutus</i>	0.1	3					
<i>Trigastrotheca molluginea</i>	0.1	10					
<i>Triodia brizoides</i>	15	40-100					
<i>Triodia epactia</i>	0.5	50-140					
<i>Triodia schinzii</i>	0.1	50-100					

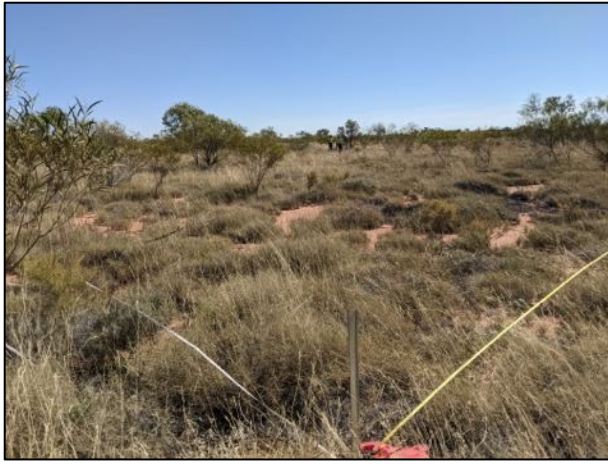


Rio Tinto Winu - Winu Project**Site** WIN0147**Described by** ND JP**Date** 07/07/2024 **Type** Q

50x50

Season E**Uniformity** Excellent**Location** Revised DE Texas Bore Field**MGA Zone** 51K 380785 mE 7697713 mN 121.854367 E -20.81671678 S**Habitat** P10d Corymbia zygophylla over Triodia brizoides**Soil** Brown clay with thin layer of red sand.**Rock Type** No outcropping cover. Rock type unknown**Vegetation** Corymbia zygophylla 3.5m Acacia colei var. colei 3m PFC 2% over Acacia ancistrocarpa 2m Acacia orthocarpa 2.5m PFC 2-3% over Triodia brizoides 0.5-1m (50%) Jacksonia aculeata 1m Bonamia erecta 0.3m PFC 55%.**Veg Condition** Excellent**Fire Age** 10+ years**Notes** No effective disturbance.

Species	Phase 1			Phase 2			Comments
	Cover (%)	Height (cm)	Specimen	Cover (%)	Height (cm)	Specimen	
Abildgaardia oxystachya	0.1	20					
Acacia adoxa var. adoxa	0.1	10					
Acacia ancistrocarpa	2	300					
Acacia colei var. colei	0.1	300					
Acacia orthocarpa	1	200					
Aristida holathera var. holathera	0.1	30					
Bonamia erecta	0.1	30					
Calytrix carinata	0.1	100					
Cassytha capillaris	0.1	20					
Corymbia zygophylla	1	300					
Eragrostis eriopoda	0.1	30					
Eriachne lanata	0.1	40					
Goodenia hartiana	0.1	30					
Jacksonia aculeata	0.1	100					
Paraneurachne muelleri	0.1	30					
Polygala isingii	0.1	5					
Stackhousia sp. swollen gynophore (W.R. Barker 2041)	0.1	20	147-01				
Triodia brizoides	45	50-110					
Triodia schinzii	0.1	50-120					



Rio Tinto Winu - Winu Project**Site** WIN0148**Described by** JP ND**Date** 31/10/2024 **Type** Q

50x50

Season E**Uniformity** Excellent**Location** South Granites**MGA Zone** 51K 372487 mE 7701814 mN 121.7749373 E -20.7791180 S**Habitat** Claypan/ Grassland**Soil** Brown clay with thin layer of red sand.**Rock Type** No outcropping cover. Rock type unknown**Vegetation** Grevillea wickhamii subsp. hispidula 2m Cullen pustulatum 1.3 Gossypium australe 1m, Senna oligophylla 1m, Eulalia aurea 1m PFC 35% over Eragrostis setifolia 0.4m Boerhavia gardneri 0.1m and Eragrostis eriopoda 0.5m,**Veg Condition** Excellent**Fire Age** 5+ years**Notes** No effective disturbance.

Species	Phase 1			Phase 2			Comments
	Cover (%)	Height (cm)	Specimen	Cover (%)	Height (cm)	Specimen	
Alternanthera nana	0.1	5					
Aristida contorta	0.1	10					
Aristida inaequiglumis	0.1	40					
Arivela viscosa	0.1	40					
Boerhavia gardneri	0.1	10	145-11				
Bulbostylis barbata	0.1	10					
Corchorus sidoides subsp. sidoides	0.1	10					
Cullen pustulata	0.5	180					
Dysphania ?rhadinostachya subsp. rhadinostachya	0.1	10	145-06				
Enneapogon polyphyllus	0.1	20	145-04				
Eragrostis cumingii	0.1	30					
Eragrostis eriopoda	0.1	50	145-05				
Eragrostis xerophila	1	50					
Eriachne helmsii	0.1	40	145-01				
Eulalia aurea	30	120					
Evolvulus alsinoides var. villosicalyx	0.1	5					
Gomphrena sp. Indet.	0.1	10	145-12				
Goodenia armitiana	0.1	40	145-03				
Grevillea wickhamii subsp. hispidula	0.1	230					
Marsilea sp. Indet.	0.1	5					
Polycarpaea corymbosa	0.1	5					
Portulaca filifolia	0.1	5	145-09				
Portulaca oleracea	0.1	1	145-10				
Senna symonii	0.1	120					
Streptoglossa decurrens	0.1	20					
Synaptantha tillaeacea var. tillaeacea	0.1	5	145-07				
Tephrosia supina	0.1	40					
Tribulus sp. Indet.	0.1	5	145-02				
Unknown sp. Indet (Poaceae)	0.1	10	145-13				





Rio Tinto Winu - Winu Project**Site** WIN0149**Described by** JP ND**Date** 7/12/2024 **Type** Q

50x50

Season E**Uniformity** Excellent**Location** South Granites**MGA Zone** 51K 371514 mE 7701728 mN 121.765584 E -20.7798279 S**Habitat** Claypan/ Grassland**Soil** Brown clay with thin layer of red sand.**Rock Type** No outcropping cover. Rock type unknown

Vegetation Occasional Acacia ancistrocarpa 3m, over Calytrix carinata 1.5m PFC 20% with Erythrophleum chlorostachys 1m Acacia tumida 1.5m over Triodia schinzii 20% with Eriachne lanata 0.6m Jacksonia aculeata 0.8m Bonamia erecta 0.3m Amphipogon sericeus 0.5m and Dicrastylis cordifolia 0.4m PFC 20-40%

Veg Condition Excellent**Fire Age** 10+ years**Notes** No effective disturbance.

Species	Phase 1			Phase 2			Comments
	Cover (%)	Height (cm)	Specimen	Cover (%)	Height (cm)	Specimen	
Acacia ancistrocarpa	0.1	300					
Acacia tumida var. kulparn	0.5	150					
Amphipogon sericeus	0.1	50					
Bonamia erecta	0.1	30					
Calytrix carinata	25	150					
Dampiera cinerea	0.1	10					
Dicrastylis cordifolia	0.1	30					
Dicrastylis doranii	0.1	20					
Dodonaea coriacea	0.1	50					
Dodonaea hispidula	0.1	100					
Eriachne lanata	0.5	60					
Erythrophleum chlorostachys	0.1	40					
Gompholobium simplicifolium	0.1	50					
Grevillea eriostachya	0.1	100					
Hakea macrocarpa	0.1	100					
Halgania solanacea var. solanacea	0.1	20					
Jacksonia aculeata	0.1	60					
Orianthera centralis	0.1	30					
Paraneurachne muelleri	0.1	40					
Ptilotus arthrolasius	0.1	40					
Ptilotus calostachyus	0.1	20					
Scaevola parvifolia subsp. parvifolia	0.1	30					
Trigastrotheca molluginea	0.1	10					
Triodia schinzii	20	50-120					



Rio Tinto Winu - Winu Project**Site** WIN0150**Described by** JP ND**Date** 8/12/2024 **Type** Q

50x50

Season E**Uniformity** Excellent**Location** South Granites**MGA Zone** 51K 373194 mE 7699971 mN 121.781594 E -20.7958156 S**Habitat** Sandplain -**Soil** Pale red sandy clay**Rock Type** No outcropping cover. Rock type unknown**Vegetation** Occasional grevillea wickhamii 2.5m with Acacia orthocarpa 1.5m PFC 3% over Triodia schinzii 1m Triodia epactia 1m Eulalia aurea 1m with Eriachne lanata 0.5m Eriachne obtusa 0.5m Fimbristylis dichotoma 0.1m Goodenia armitiana 0.2m and Leptosema anomalum 0.5m PFC 25%.**Veg Condition** Excellent**Fire Age** 5+ years**Notes** No effective disturbance.

Species	Phase 1			Phase 2			Comments
	Cover (%)	Height (cm)	Specimen	Cover (%)	Height (cm)	Specimen	
Acacia ancistrocarpa	0.1	80					
Acacia monticola	0.1	40					
Acacia orthocarpa	3	150					
Aristida holathera var. holathera	0.1	40					
Bonamia alatisemina	0.1	20					
Bonamia erecta	0.1	30					
Bulbostylis barbata	0.1	5					
Calytrix carinata	0.1	80					
Dampiera candicans	0.1	20					
Eragrostis eriopoda	0.1	10					
Eriachne lanata	2	40					
Eriachne obtusa	2	30					
Eulalia aurea	8	40					
Evolvulus alsinoides var. villosicalyx	0.1	20					
Fimbristylis dichotoma	0.1	30					
Goodenia armitiana	0.1	30					
Grevillea wickhamii subsp. hispidula	0.1	130					
Hakea macrocarpa	0.1	80					
Hibiscus leptocladus	0.1	30					
Leptosema anomalum	0.1	30					
Mirbelia viminalis	0.1	60					
Paranotis pterospora	0.1	10					
Polycarpaea corymbosa var. corymbosa	0.1	5					
Ptilotus arthrolasius	0.1	20	150-01				
Ptilotus astrolasius	0.1	20					
Ptilotus calostachyus	0.1	30					
Streptoglossa macrocephala	0.1	20					
Tribulopsis marliesiae	0.1	10					P2
Trigastrotheca molluginea	0.1	10					
Triodia schinzii	1	50-120					



Rio Tinto Winu - Winu Project**Site** WIN0151**Described by** JP ND**Date** 3/05/2025 **Type** Q 50x50**Season** E**Uniformity** Excellent**Location** Texas South**MGA Zone** 51K 395642 mE 7690437 mN**Habitat** Drainage Flat in Paleochannel-**Soil** Mosaic of red sand and hard grey clay**Rock Type** Calcrete outcropping in area**Vegetation** Melaleuca glomerata Shrubland

Occasional Eucalyptus victrix to 6m with a PFC 1% over Melaleuca lasiandra to 3m, Melaleuca glomerata to 1.7m with a PFC 20% over Acacia stellaticeps to 0.5m, Aristida holathera to 0.4m Fimbristylis dichotoma. to 0.3m Triodia? brizoides to 1m, with a PFC 30%.

Veg Condition Excellent**Fire Age** Long unburnt**Notes** No effective disturbance.

Species	Phase 1			Phase 2			Comments
	Cover (%)	Height (cm)	Specimen	Cover (%)	Height (cm)	Specimen	
Eucalyptus victrix	3	600					
Melaleuca lasiandra	4	300					
Melaleuca glomerata	4	170					
Acacia stellaticeps	2	50					
Fimbristylis dichotoma	1	30	151-02				
Triodia basedowii	2	40	151-01				
Streptoglossa macocephala	0.1	40	151-03				
Aristida holathera var. holathera	3	50					
Eulalia aurea	0.1	50					
Pluchea tetranthera	0.1	20	151.04				
Eriachne aristidea	0.1	40					
Euploca sp. mel	0.1	20					
Senna notabilis	0.1	40					
Indigofera monophylla	0.1	140					
Goodenia lamprosperma	0.1	20					
Sida sp. dark green fruits (S. van Leeuwen 2260)	0.1	30					
Pluchea ferdinandi-muelleri	0.1	40					
Corchorus sidoides var. sidoides	0.1	30					
Sida arenicola	0.1	100					
Ptilotus exaltatus	0.1	40					
Ptilotus calostachyus	0.1	40					
Triodia schinzii	0.1	40/150					
Eragrostis eriopoda	0.1	40					
Hibiscus leptocladus	0.1	30	151.05				
Arivela viscosa	0.1	50					
Trigastrotheca molluginea	0.1	20					
Goodenia armitiana	0.1	30					
Sida sp. Pilbara (A.A . MitchellRRPI1543)	0.1	20	151.06				
Acacia ancistrocarpa	0.1	30					
Synaptantha tillaeacea var. tillacea	0.1	5	151.07				

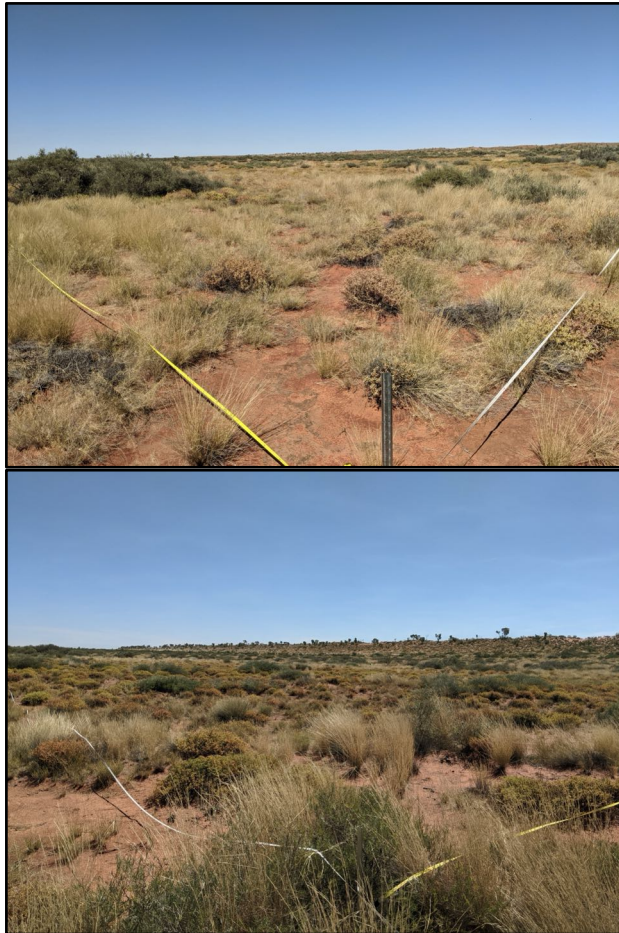


Rio Tinto Winu - Winu Project**Site** WIN0152**Described by** JP ND**Date** 3/05/2025 **Type** Q 50x50**Season** E**Uniformity** Excellent**Location** Texas South**MGA Zone** 51K 394789 mE 7682059 mN**Habitat** Clay pan / Drainage Flat in Paleochannel-**Soil** Mosaic of red sand and hard grey clay**Rock Type** Unknown - Calcrete sub cropping?**Vegetation** *Trianthema turgidifolia* Shrubland

Melaleuca glomerata to 1m with a PFC 3% over *Trianthema turgidifolia* to 0.4m, *Aristida holathera* to 0.5m
Eragrostis cumingii. to 0.3m, with a PFC 30%.

Veg Condition Excellent**Fire Age** Long unburnt**Notes** No effective disturbance.

Species	Phase 1			Phase 2			Comments
	Cover (%)	Height (cm)	Specimen	Cover (%)	Height (cm)	Specimen	
<i>Melaleuca glomerata</i>	3	100					
<i>Trianthema turgidifolia</i>	10	50					
<i>Eragrostis cumingii</i>	3	30					
<i>Sporobolus australasicus</i>	0.1	40					
<i>Aristida holathera</i> var. <i>holathera</i>	0.1	50					
<i>Aristida inaequiglumis</i>	0.1	100					
<i>Streptoglossa decurrens</i>	0.1	25					
<i>Bulbostylis barbata</i>	0.1	5					
<i>Triraphis mollis</i>	0.1	20					
<i>Fimbristylis dichotoma</i>	0.1	20					
<i>Pluchea ferdinandi-muelleri</i>	0.1	80					
<i>Pluchea tetranthera</i>	0.1	40					
<i>Eriachne obtusa</i>	0.1	30					
<i>Eucalyptus victrix</i>	Out	200					Outside

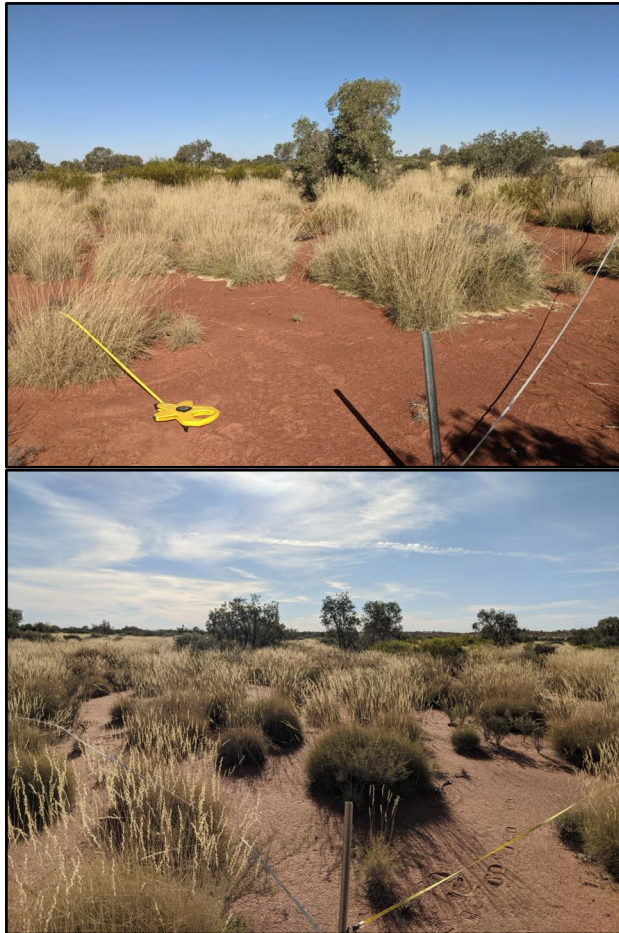


Rio Tinto Winu - Winu Project**Site** WIN0153**Described by** JP ND**Date** 3/05/2025 **Type** Q 50x50**Season** E**Uniformity** Excellent**Location** Texas South**MGA Zone** 51K 392639 mE 7676634 mN**Habitat** Interdunal Swale**Soil** Red Sand / clayey underneath**Rock Type** Unknown sub- cropping?

Vegetation Melaleuca lasiandra Shrubland with Acacia ancistrocarpa
 Melaleuca lasiandra to 4m with a PFC 2% over Acacia ancistrocarpa to 1.5m, Melaleuca glomerata to 1.5m with a PFC 2% over Triodia? brizoides to 1m and Jacksonia aculeata to 1m, with a PFC 6%.

Veg Condition Excellent**Fire Age** Long unburnt 5 to 10 years Scorch marks on melaleucas and small Triodia rings**Notes** No effective disturbance.

Species	Phase 1			Phase 2			Comments
	Cover (%)	Height (cm)	Specimen	Cover (%)	Height (cm)	Specimen	
Melaleuca lasiandra	2	300					
Acacia ancistrocarpa	1	150					
Melaleuca glomerata	2	150					
Calytrix carinata	0.1	100					
Jacksonia aculeata	1	100					
Triodia ?brizoides	5	60/100					
Dampiera candidans	0.1	50					
Sida arenicola	0.1	140					
Scaevola parvifolia	0.1	10					



Rio Tinto Winu - Winu Project**Site** WIN0154**Described by** JP ND**Date** 7/05/2025 **Type** Q 50x50**Season** E**Uniformity** Excellent**Location** Texas South**MGA Zone** 51K 395327 mE 7688740 mN**Habitat** Interdunal Swale**Soil** Red Sand with patches of clay**Rock Type** Calcrete out-cropping slight rise**Vegetation** Melaleuca Shrubland with Hakea lorea and Acacia stellaticeps

Hakea lorea to 3m, Grevillea wickhamii to 2.5m Eucalyptus victrix to 2.5m, Melaleuca lasiandra to 2.5m with a PFC 1% over Triodia epactia 0.4/1m, Acacia stellaticeps to 0.6m, and Euploca glandulifera to 0.4m with a PFC 40%.

Veg Condition Excellent**Fire Age** Long unburnt 5 to 10 years Scorch marks on melaleucas and small Triodia rings**Notes** No effective disturbance.

Species	Phase 1			Phase 2			Comments
	Cover (%)	Height (cm)	Specimen	Cover (%)	Height (cm)	Specimen	
Hakea lorea	0.5	300					
Grevillea wickhamii	1	250					
Melaleuca lasiandra	0.1	250					
Eucalyptus victrix	0.1	300					
Melaleuca glomerata	1	150					
Euploca glandulifera	1	40					
Boerhavia gardneri	0.1	40					
Acacia stellaticeps	0.5	50					
Triodia epactia	30	50/120					
Eriachne mucronata	0.1	30					
Arivela microphylla	0.1	20					
Ptilotus axillaris	0.1	5					
Eragrostis eriopoda	0.1	30					
Cassytha capillaris	0.1	20					
Triodia basedowii	0.1	40/100					
Aristida contorta	0.1	20					
Ptilotus astrolasius	0.1	40					
Tribulus hirsutus	0.1	10					
Eriachne aristidea	0.1	30					
Sida sp. dark green fruits	0.1	10					
Aristida holathera var. holathera	0.1	30					



Rio Tinto Winu - Winu Project**Site** WIN0155**Described by** JP ND**Date** 7/05/2025 **Type** Q 50x50**Season** Excellent**Uniformity** Excellent**Location** Texas South**MGA Zone** 51K 394113 mE 7685740 mN**Habitat** Area adjacent to Drainage**Soil** Red Sand with patches of clay**Rock Type** Unknown sub-cropping calcrete?**Vegetation** Melaleuca lasiandra Shrubland with Acacia ancistrocarpa

Melaleuca lasiandra to 2.5m, Acacia ancistrocarpa to 2m with a PFC 25%, over Triodia basedowii 0.5/1m, Triodia epactia 0.5/1m with a PFC 35%.

Veg Condition Excellent**Fire Age** Long unburnt old burnt stumps**Notes** No effective disturbance.

Species	Phase 1			Phase 2			Comments
	Cover (%)	Height (cm)	Specimen	Cover (%)	Height (cm)	Specimen	
Melaleuca lasiandra	10	250					
Acacia ancistrocarpa	12	200					
Eucalyptus victrix	0.1	150					
Triodia basedowii	35	50/100					
Triodia epactia	1.5	50/140					
Ptilotus astrolasius	0.1	50					
Tephrosia arenicola	0.1	80					
Jacksonia aculeata	0.1	50					
Ptilotus calostachyus	0.1	40					
Aristida holathera var. holathera	0.1	80					
Sida arenicola	0.1	160					
Acacia stellaticeps	0.1	40					
Dampiera candidans	0.1	60					
Eragrostis eriopoda	0.1	40					
Dicrastylis cordifolia	0.1	30					
Eriachne lanata	0.1	70					
Evolvulus alsinoides	0.1	30					



Rio Tinto Winu - Winu Project**Site** WIN0156**Described by** JP FK**Date** 25/03/2026 **Type** Q 50x50**Season** Excellent**Uniformity** Excellent**Location** RAC**MGA Zone** 51J 304993 mE 7776737 mN**Habitat** P12 Sandplain Flat**Soil** Soft red sand with many (20-50%) lag gravel 2-6 mm**Rock Type** Unknown subcropping**Vegetation** P12 *Grevillea refracta* over *Triodia epactia* and *Acacia adoxa*.*Grevillea refracta* to 2m with a PFC 4% over *Triodia epactia* with a PFC 13% over *Acacia adoxa* var. *adoxa*, and *Acacia hilliana* with a PFC 5.5% over herbs and grasses**Veg Condition** Excellent**Fire Age** 3-5 years – burnt *Triodia***Species List**

Taxon	Field name	S1 Heig ht (m)	S1 Cove r (%)	S1 Specim en	Note s	S2 Heig ht (m)	S2 Cove r (%)	S2 Specim en
<i>Grevillea refracta</i> subsp. <i>refracta</i>	<i>Grevillea refracta</i>	2	4					
<i>Sorghum plumosum</i>	<i>Sorghum plumosum</i>	1.5	0.1					
<i>Ptilotus calostachyus</i>	<i>Ptilotus calostachyus</i>	1.3	0.1					
<i>Triodia epactia</i>	<i>Triodia epactia</i>	0.4	13					
<i>Acacia adoxa</i> var. <i>adoxa</i>	<i>Acacia adoxa</i>	0.4	5					
<i>Acacia hilliana</i>	<i>Acacia hilliana</i>	0.4	0.5					
<i>Trianthema pilosum</i>	<i>Trianthema pilosum</i>	0.1	0.1		Dea d			
<i>Goodenia azurea</i> subsp. <i>hesperia</i>	<i>Goodenia azurea</i> var. <i>hesperia</i>	0.3	0.1					
<i>Grevillea pyramidalis</i>	<i>Grevillea pyramidalis</i>	0.3	0.1					
<i>Grevillea wickhamii</i> subsp. <i>hispidula</i>	<i>Grevillea wickhamii</i> subsp. <i>hispidula</i>	0.5	0.1					
<i>Eriachne lanata</i>	<i>Eriachne lanata</i>	-	-					
<i>Acacia monticola</i>	<i>Acacia monticola</i>	0.5	0.1					
<i>Bonamia alatisemina</i>	<i>Bonamia oblongifolia</i>	0.1	0.1					
<i>Tephrosia arenicola</i>	<i>Tephrosia arenicola</i>	0.2	0.1					
<i>Corchorus sidoides</i>	<i>Corchorus sidoides</i>	0.5	0.1					
<i>Goodenia azurea</i> subsp. <i>hesperia</i>	<i>Goodenia</i> ?	0.4	0.1					
<i>Boerhavia coccinea</i>	<i>Boerhavia</i> sp.	0.1	0.1	Q01-01				
<i>Gossypium australe</i>	<i>Gossypium australe</i>	0.6	0.1	Q01-02				
<i>Sida arenicola</i>	<i>Sida arenicola</i>	1	0.1					
<i>Trigastrotheca molluginea</i>	<i>Trigastrotheca molluginea</i>	0.1	0.1					
<i>Bulbostylis barbata</i>	<i>Bulbostylis barbata</i>	0.1	0.1					
<i>Senna notabilis</i>	<i>Senna notabilis</i>	0.4	0.1					
<i>Cassytha capillaris</i>	<i>Cassytha capillaris</i>	0.3	0.1					
<i>Ptilotus astrolasius</i>	<i>Ptilotus astrolasius</i>	0.3	0.1					
<i>Tribulopsis marliesiae</i>	<i>Tribulopsis marliesiae</i>	0.2	0.1					
<i>Gardenia pyriformis</i> subsp. <i>keartlandii</i>	<i>Gardenia pyriformis</i> subsp. <i>keartlandii</i>	4.5	Out					
<i>Arivela viscosa</i>	<i>Arivela viscosa</i>	0.3	Out					
<i>Ptilotus</i> indet.	<i>Ptilotus</i> sp. <i>nodding</i>	0.3	Out					



Rio Tinto – Winu

Site	Q157	Type	Quadrat	50 x 50				
Recorders	S1 JP FK	Date	S1	25/03/2026				
Location	RAC							
MGA Zone	51 J	318542	mE	77744152	mN	E		S
Habitat	Low gravel rise							
Soil	Firm Sandy clay with Lateritic gravel							
Rock Type	Unknown sub-cropping							
Vegetation	P12 <i>Grevillea refracta</i> over <i>Triodia epactia</i> and <i>Acacia adoxa</i> .							
Description	<i>Grevillea refracta</i> 1-3 m PFC 5% over <i>Triodia epactia</i> 0.3/1 m, <i>Eriachne lanata</i> 0.4 m, and <i>Acacia hilliana</i> 0.5 m, combined PFC 25%.							
Condition	Excellent							
Fire Age	3-5 years							
Notes	Along roadside							

Species List

Taxon	Field name	S1 Height (m)	S1 Cover (%)	S1 Specimen	Notes	S2 Height (m)	S2 Cover (%)	S2 Specimen
<i>Grevillea refracta</i> subsp. <i>refracta</i>	<i>Grevillea refracta</i>	1-3	8					
<i>Triodia epactia</i>	<i>Triodia epactia</i>	0.3/1	20					
<i>Acacia hilliana</i>	<i>Acacia hilliana</i>	0.3	0.1					
<i>Ptilotus calostachyus</i>	<i>Ptilotus calostachyus</i>	0.5	2					
<i>Cassytha capillaris</i>	<i>Cassytha capillaris</i>	0.3	0.1					
<i>Eriachne lanata</i>	<i>Eriachne lanata</i>	0.5	1.5					
<i>Bulbostylis barbata</i>	<i>Bulbostylis barbata</i>	0.1	0.1					
<i>Grevillea wickhamii</i> subsp. <i>hispidula</i>	<i>Grevillea wickhamii</i>	0.3	0.1					
<i>Dodonaea coriacea</i>	<i>Dodonaea coriacea</i>	0.1	0.1					
<i>Trigastrotheca molluginea</i>	<i>Trigastrotheca molluginea</i>	0.1	0.1					
<i>Sorghum plumosum</i>	<i>Sorghum plumosum</i>	1.2	0.1					
<i>Ptilotus astrolasius</i>	<i>Ptilotus astrolasius</i>	0.3	0.1					
<i>Goodenia azurea</i> subsp. <i>hesperia</i>	<i>Goodenia azurea</i>	0.05	0.1					
<i>Sida arenicola</i>	<i>Sida arenicola</i>	0.6	0.1					
<i>Abildgaardia oxystachya</i>	<i>Abildgaardia oxystachya</i>	0.1	2					
<i>Acacia adoxa</i> var. <i>adoxo</i>	<i>Acacia adoxa</i>	0.2	0.1					
<i>Hibiscus leptocladus</i>	<i>Hibiscus leptocladus</i>	0.3	0.1					
<i>Eragrostis eriopoda</i>	<i>Eragrostis eriopoda</i>	0.3	0.1					



Rio Tinto – Winu

Site	Q158	Type	Quadrat	50 x 50				
Recorders	S1 JP FK		Date S1	26/03/2026				
Location	RAC							
MGA Zone	51 K	332226	mE	7734802	mN	E		S
Habitat	Sandy plain							
Soil	Soft red sand with no lag gravel							
Rock Type	Unknown subcropping							
Vegetation	P13							
Description	Scattered <i>Gardenia pyriformis</i> subsp. <i>keartlandii</i> 1.5-4 m, PFC 1% with <i>Grevillea wickhamii</i> 2-4 m PFC 1-2% over emergent <i>Erythrophleum chlorostachys</i> to 1.5 m and <i>Grevillea eriostachya</i> , PFC 1-3%. Over <i>Triodia schinzii</i> 0.4/1.2 m, PFC 15-20%.							
Condition	Excellent							
Fire Age	3-5 years – burnt <i>Triodia</i> & stumps							
Notes								

Species List

Taxon	Field name	S1 Height (m)	S1 Cover (%)	S1 Specimen	Notes	S2 Height (m)	S2 Cover (%)	S2 Specimen
<i>Gardenia pyriformis</i> subsp. <i>keartlandii</i>	<i>Gardenia pyriformis</i> subsp. <i>keartlandii</i>	1.5-4	1					
<i>Grevillea wickhamii</i> subsp. <i>hispidula</i>	<i>Grevillea wickhamii</i>	2-4	0.5					
<i>Grevillea eriostachya</i>	<i>Grevillea eriostachya</i>	2.5	0.1					
<i>Acacia melleodora</i>	<i>Acacia melleodora</i>	1.8	0.5					
<i>Acacia sericophylla</i>	<i>Acacia sericophylla</i>	1.6	0.1					
<i>Hakea macrocarpa</i>	<i>Hakea macrostachya</i>	1.6	0.1					
<i>Erythrophleum chlorostachys</i>	<i>Erythrophleum chlorostachys</i>	0.6-1	1.5					
<i>Triodia schinzii</i>	<i>Triodia schinzii</i>	0.4/1.2	15					
<i>Gompholobium simplicifolium</i>	<i>Gompholobium simplicifolia</i>	0.6	1.5					
<i>Seringia exastia</i>	<i>Seringia exastia</i>	0.4	0.1					
<i>Aristida holathera</i> var. <i>holathera</i>	<i>Aristida holathera</i>	0.4	0.1					
<i>Ptilotus arthrolasius</i>	<i>Ptilotus arthrolasius</i>	0.4	0.1					
<i>Acacia colei</i> var. <i>colei</i>	<i>Acacia colei</i> var. <i>colei</i>	0.5	0.1					
<i>Jacksonia aculeata</i>	<i>Jacksonia aculeata</i>	1	2.5					
<i>Androcalva loxophylla</i>	<i>Androcalva loxophylla</i>	0.4	0.1					
<i>Dicrastylis doranii</i>	<i>Dicrastylis doranii</i>	0.2	0.1					
<i>Halgania solanacea</i> var. <i>solanacea</i>	<i>Halgania solanacea</i> var. <i>solanaceae</i>	0.2	0.1					
<i>Arivela uncifera</i>	<i>Arivela</i> sp. medium leaves	0.15	0.1					
<i>Corchorus sidoides</i>	<i>Corchorus sidoides</i>	0.6	0.1					
<i>Eragrostis eriopoda</i>	<i>Eragrostis eriopoda</i>	0.4	0.1					
<i>Dampiera cinerea</i>	<i>Dampiera cinerea</i>	0.3	0.1					
<i>Indigofera boviparda</i>	<i>Indigofera boviparda</i>	0.4	0.1					
<i>Setaria surgens</i>	<i>Seteria surgens</i>	0.3	0.1					
<i>Cassytha capillaris</i>	<i>Cassytha capillaris</i>	0.3	0.1					
<i>Tinospora smilacina</i>	<i>Tinospora smilacina</i>	0.2	0.1					
<i>Orianthera centralis</i>	<i>Orianthera centralis</i>	0.5	Out					
<i>Tribulopsis marliesiae</i>	<i>Tribulopsis marliesiae</i>	0.01	Out		Dead			
<i>Eriachne lanata</i>	<i>Eriachne lanata</i>	0.5	Out					

No photos available

Rio Tinto – Winu

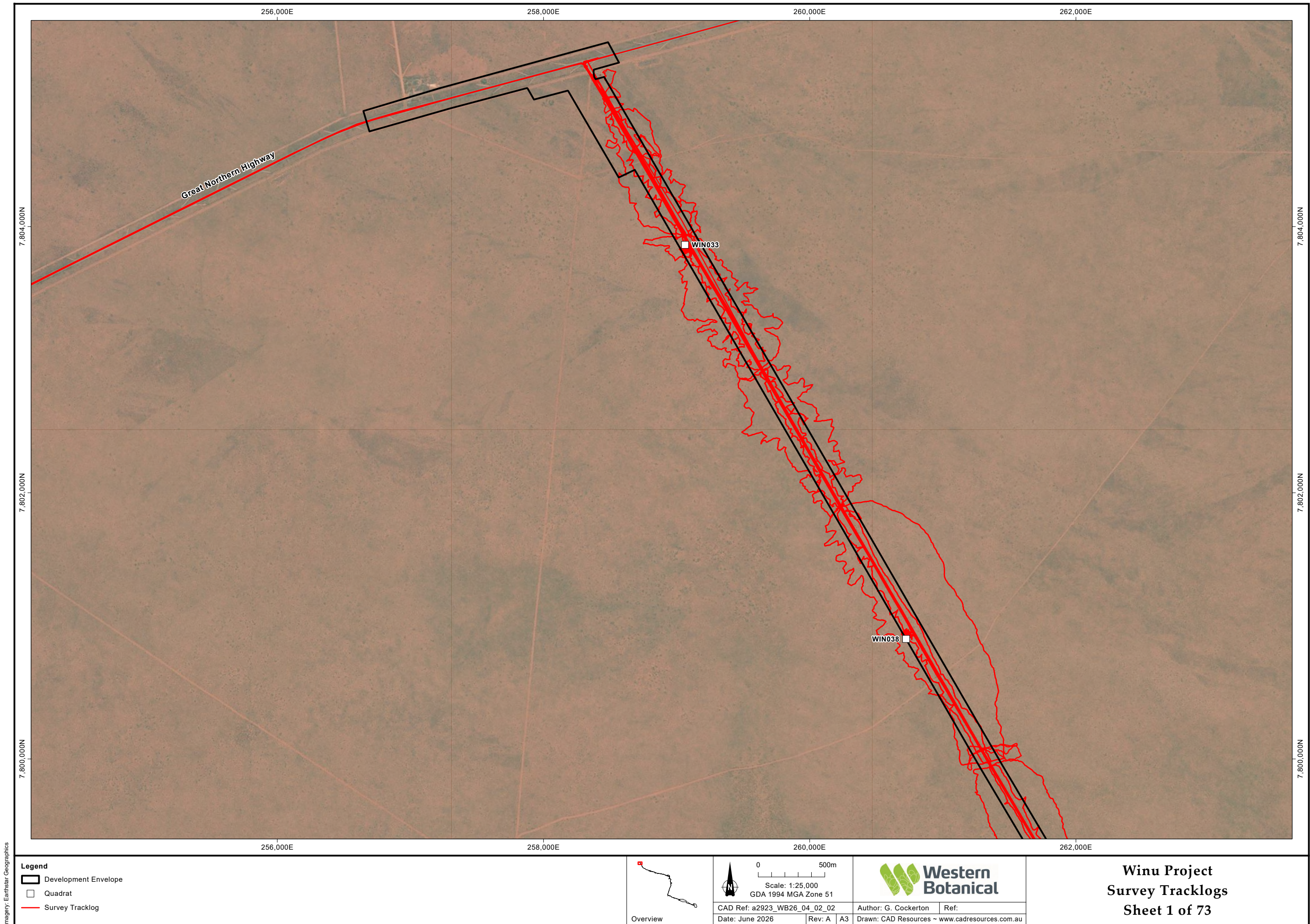
Site	Q159	Type	Quadrat	50 x 50				
Recorders	S1 JP FK	Date	S1	28/03/2026				
Location	Rimfire							
MGA Zone	51 K	384097	mE	7700795	mN	E	S	
Habitat	Plain							
Soil	Firm red silty sand with discontinuous small ironstone and quartz lag gravel <5 mm, <2% coverage							
Rock Type	Unknown subcropping							
Vegetation	P20 – <i>Acacia ancistrocarpa</i> and <i>Acacia orthocarpa</i> over <i>Triodia brizoides</i> plain.							
Description	<i>Acacia ancistrocarpa</i> 1-2.5 m PFC 8% with scattered <i>Acacia orthocarpa</i> 1-2 m and occasional <i>Grevillea wickhamii</i> 2-3 m. Over <i>Triodia brizoides</i> 0.4/1 m PFC 25% and emergent upper stratum.							
Condition	Excellent							
Fire Age	Mosaic of long unburnt and ~3 years (fire scars present)							
Notes	Eastern half of quadrat burnt ~3 years ago							

Species List

Taxon	Field name	S1 Height (m)	S1 Cover (%)	S1 Specimen	Notes	S2 Height (m)	S2 Cover (%)	S2 Specimen
<i>Acacia orthocarpa</i>	<i>Acacia orthocarpa</i>	0.7-2	1.5					
<i>Acacia ancistrocarpa</i>	<i>Acacia ancistrocarpa</i>	3.5	3					
<i>Triodia brizoides</i>	<i>Triodia brizoides</i>	0.4/1	25					
<i>Ptilotus calostachyus</i>	<i>Ptilotus calostachyus</i>	0.3	0.1					
<i>Grevillea wickhamii</i> subsp. <i>hispidula</i>	<i>Grevillea wickhamii</i>	1	0.1					
<i>Dodonaea coriacea</i>	<i>Dodonaea coriacea</i>	0.2	0.1					
<i>Triodia schinzii</i>	<i>Triodia schinzii</i>	0.3/1.5	0.5					
<i>Eriachne lanata</i>	<i>Eriachne lanata</i>	0.5	1					
<i>Tephrosia arenicola</i>	<i>Tephrosia arenicola</i>	0.4	0.5					
<i>Calytrix carinata</i>	<i>Calytrix carinata</i>	0.4	0.1					
<i>Eragrostis eriopoda</i>	<i>Eragrostis eriopoda</i>	0.4	0.1					
<i>Mirbelia viminialis</i>	<i>Mirbelia viminialis</i>	0.3	0.1					
<i>Seringia exastia</i>	<i>Seringia exastia</i>	0.3	0.1					
<i>Corchorus sidoides</i>	<i>Corchorus sidoides</i>	0.3	0.1					
<i>Trigastrotheca molluginea</i>	<i>Trigastrotheca molluginea</i>	0.15	0.1					
<i>Indigofera boviparda</i>	<i>Indigofera boviparda</i>	0.3	0.1					
<i>Bonamia erecta</i>	<i>Bonamia erecta</i>	0.3	0.1					
<i>Jacksonia aculeata</i>	<i>Jacksonia aculeata</i>	0.5	0.1					
<i>Goodenia armitiana</i>	<i>Goodenia armitiana</i>	0.3	0.1					
<i>Halgania solanacea</i> var. <i>solanacea</i>	<i>Halgania solanacea</i> var. <i>solanacea</i>	0.2	0.1					
<i>Neurachne muelleri</i>	<i>Neurachne muelleri</i>	0.5	0.1					
<i>Leptosema anomalum</i>	<i>Leptosema anomalum</i>	0.2	0.1					
<i>Amphipogon caricinus</i> (hairy lamina) (J. Paterson WB41138)	<i>Amphipogon ?caricinus</i> SOI	0.5	out					



Appendix 12. Consolidated GPS Tracklogs at 1:25K



Imagery: Earthstar Geographics

- Legend**
- Development Envelope
 - Quadrat
 - Survey Tracklog



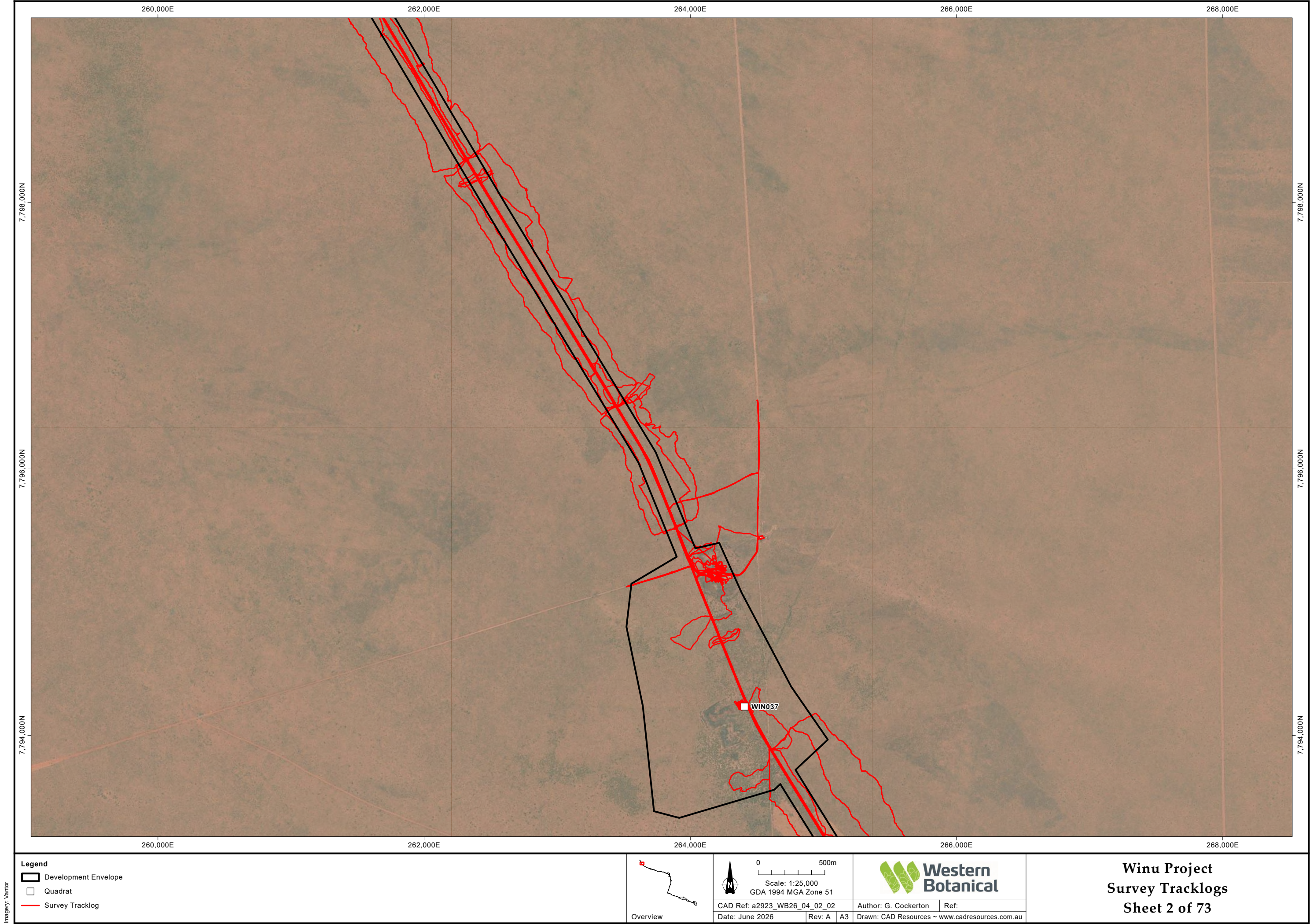
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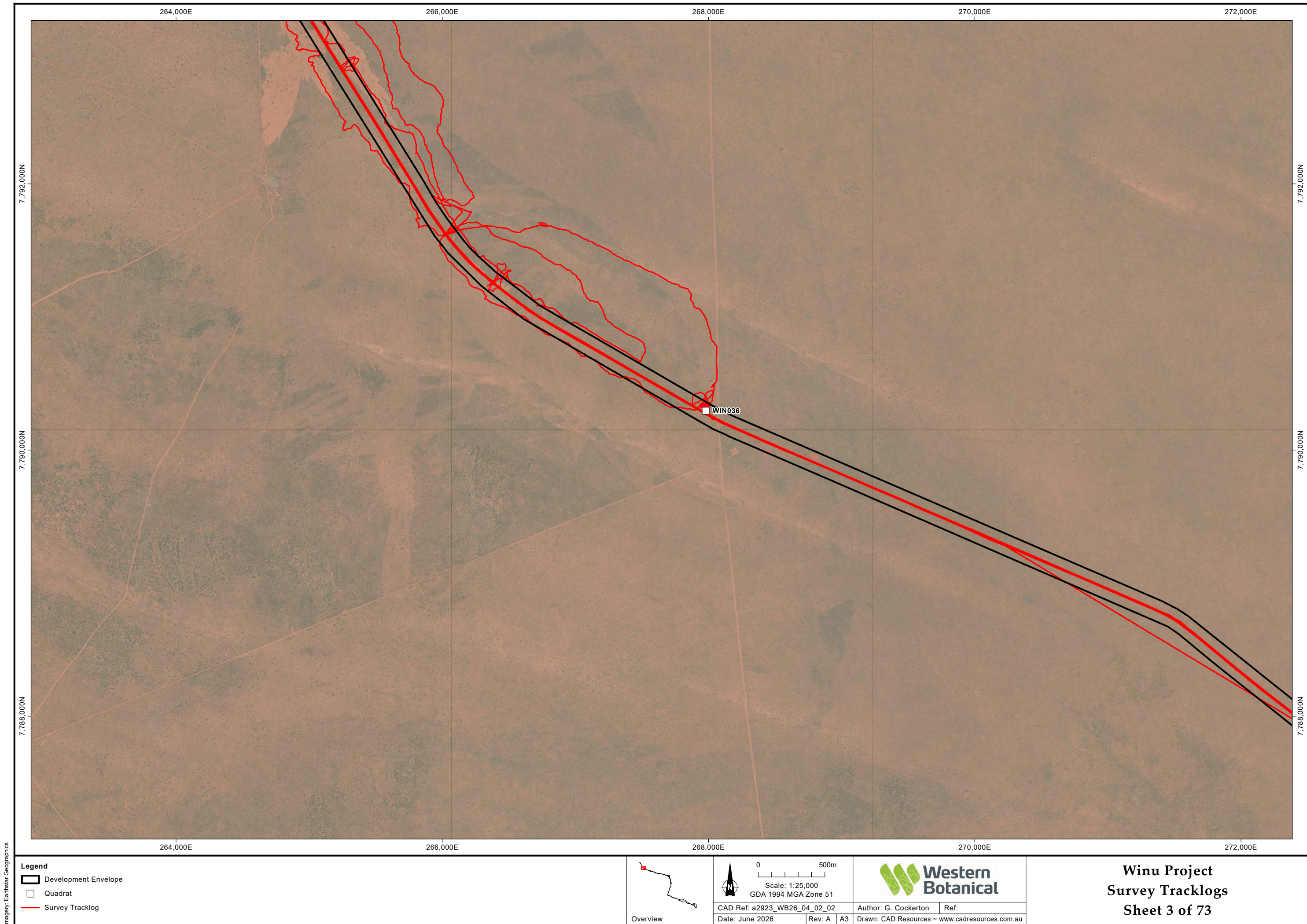
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Date: June 2026

 **Western Botanical**

Author: G. Cockerton Ref:
Drawn: CAD Resources ~ www.cadresources.com.au

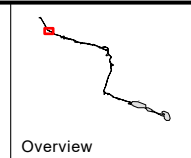
**Winu Project
Survey Tracklogs
Sheet 1 of 73**





Imagery: Earthstar Geographics

- Legend**
- Development Envelope
 - Quadrat
 - Survey Tracklog



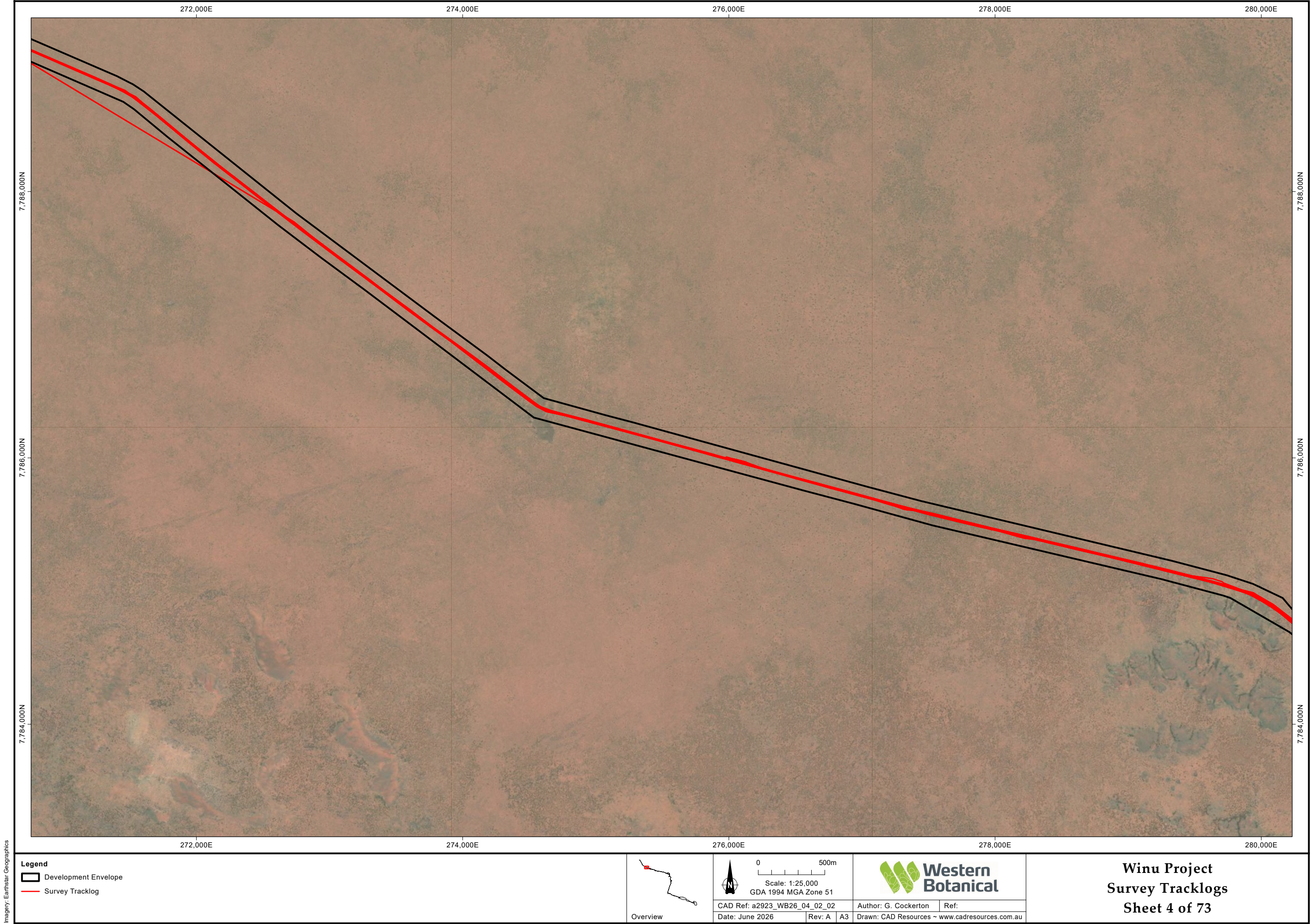
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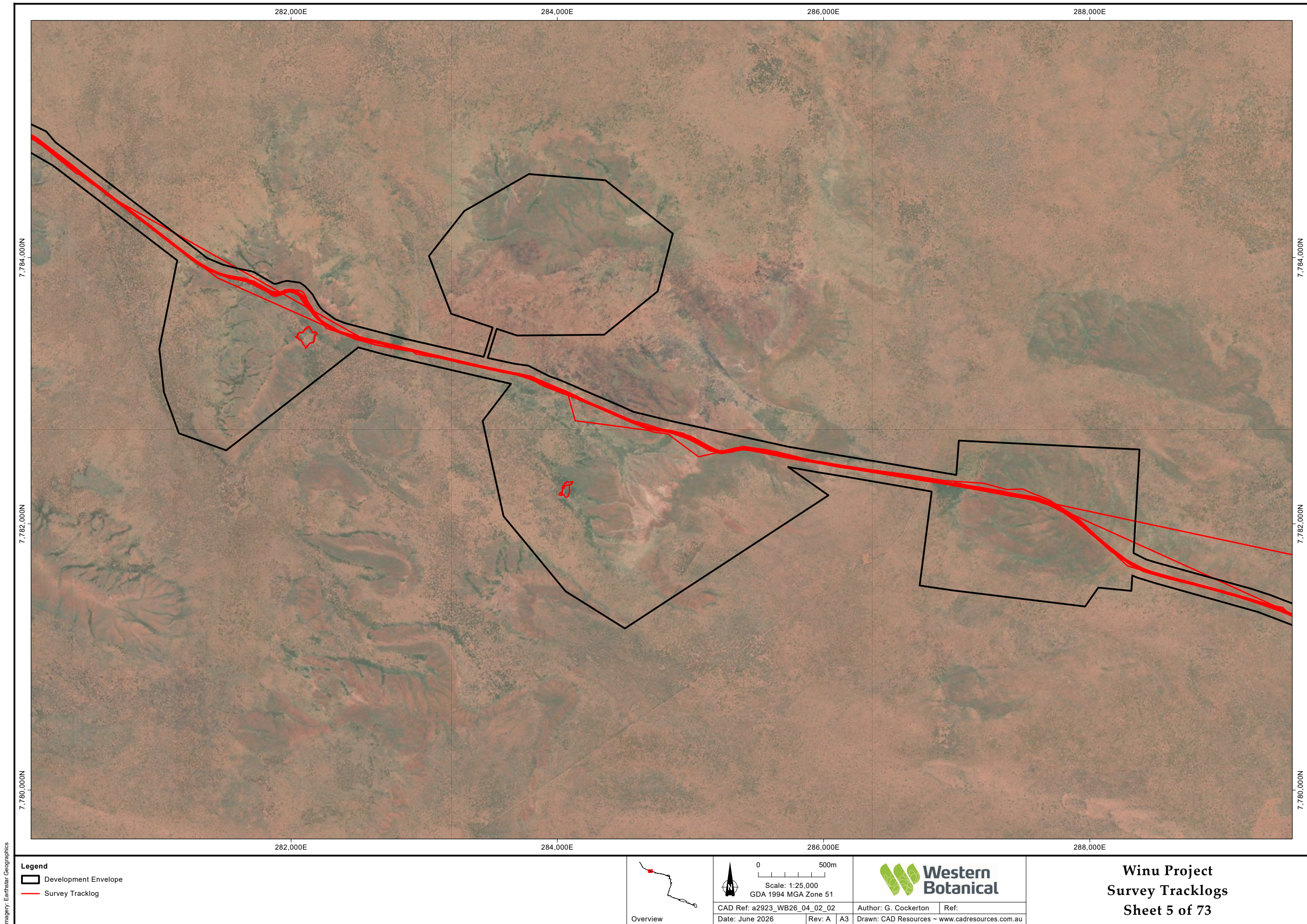
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Drawn: CAD Resources ~ www.cadresources.com.au

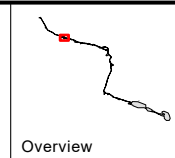
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Sheet 3 of 73**





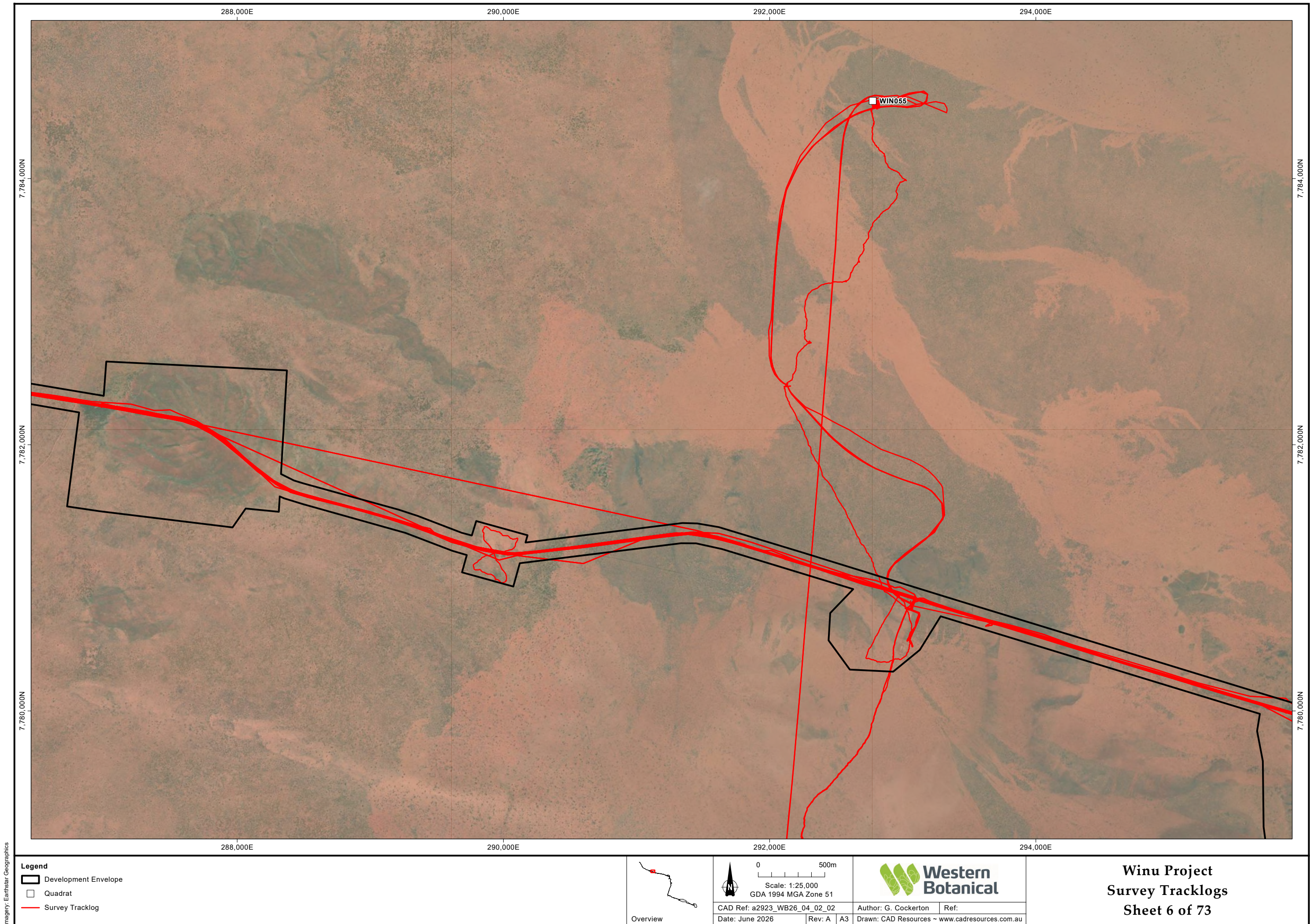
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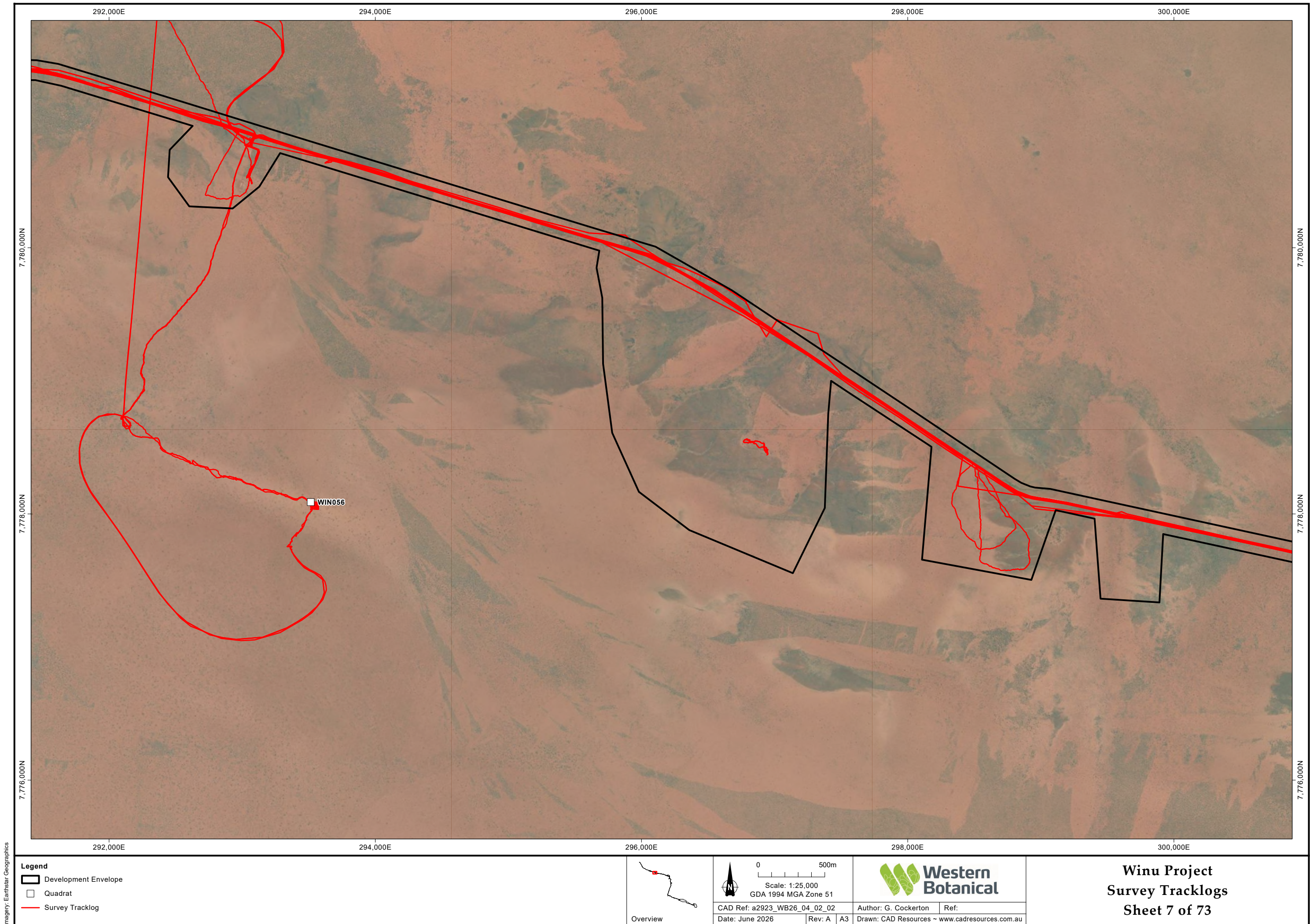
- Legend**
- Development Envelope
 - Survey Tracklog

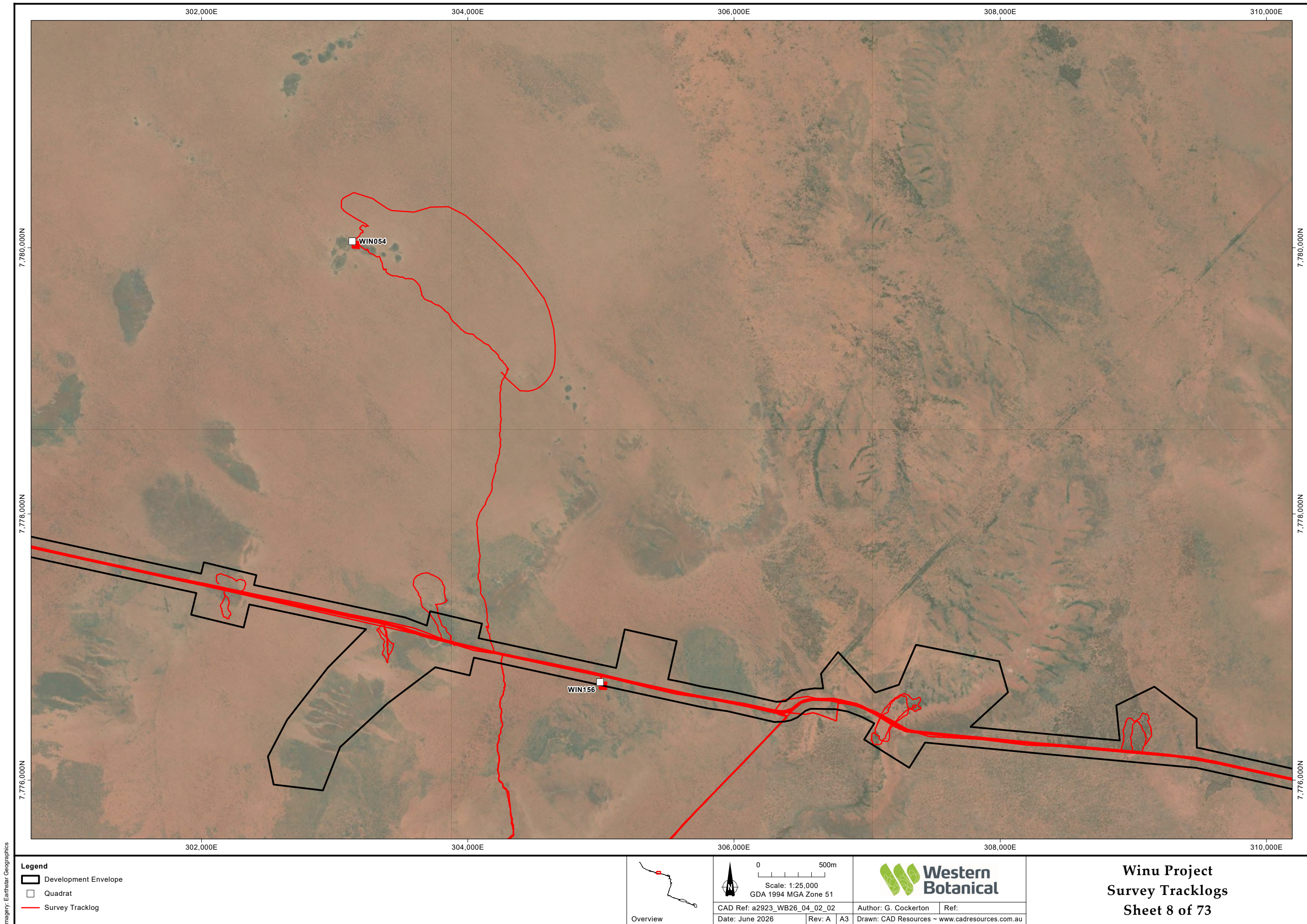


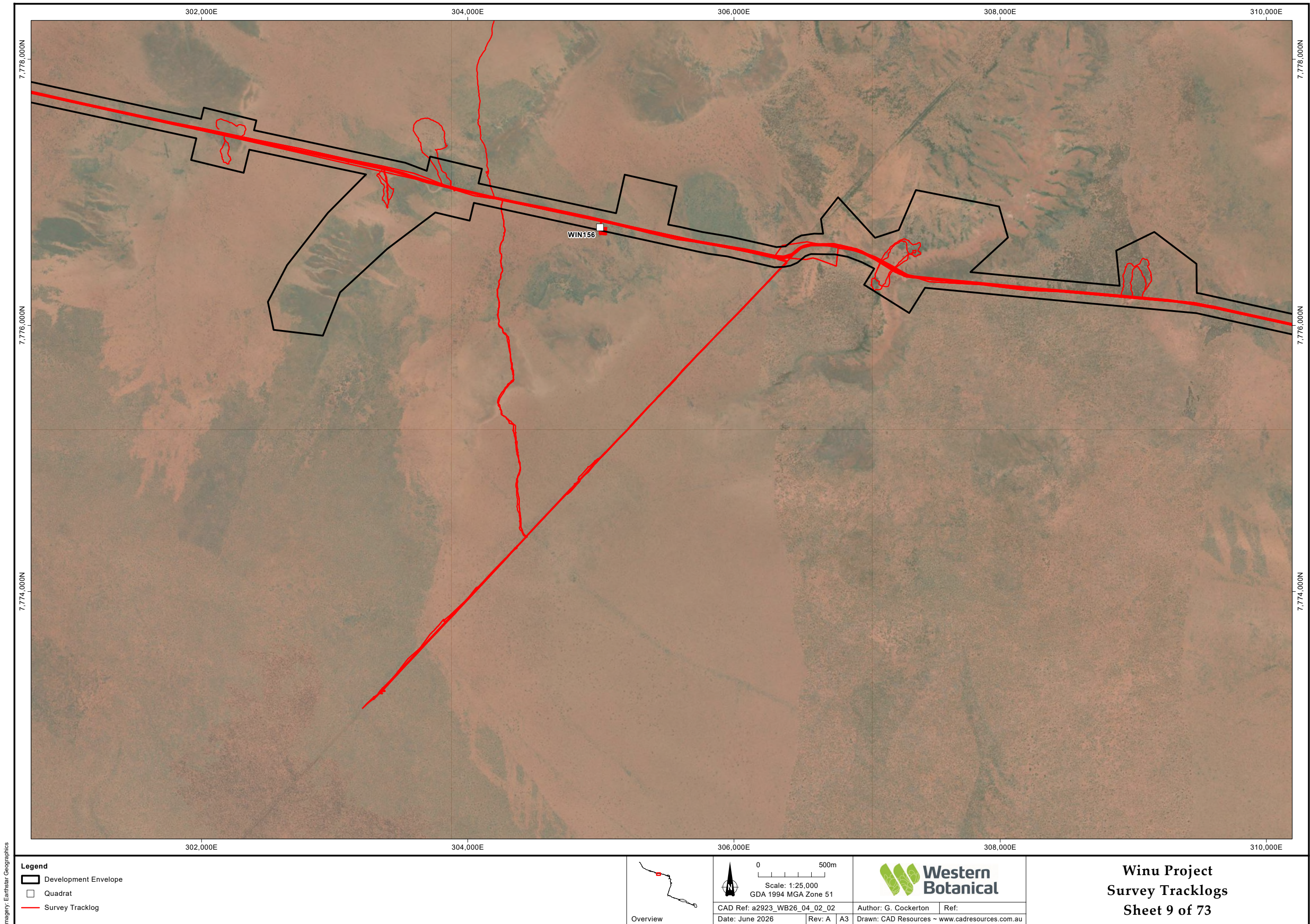
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Imagery: Earthstar Geographics

- Legend**
- Development Envelope
 - Quadrat
 - Survey Tracklog



Overview

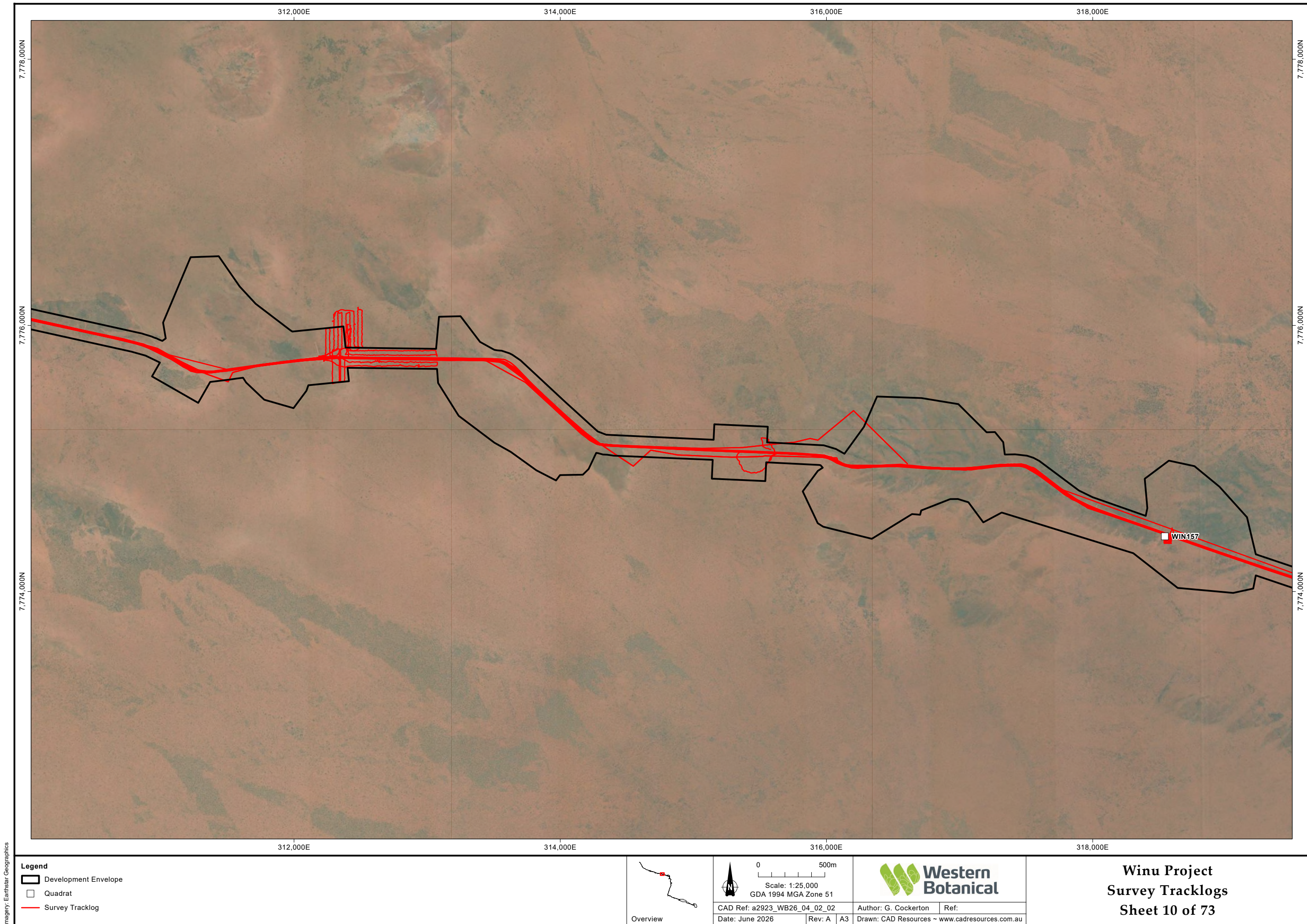
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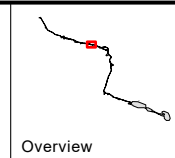
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Survey Tracklogs
Sheet 9 of 73**



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- Legend**
- Development Envelope
 - Quadrat
 - Survey Tracklog



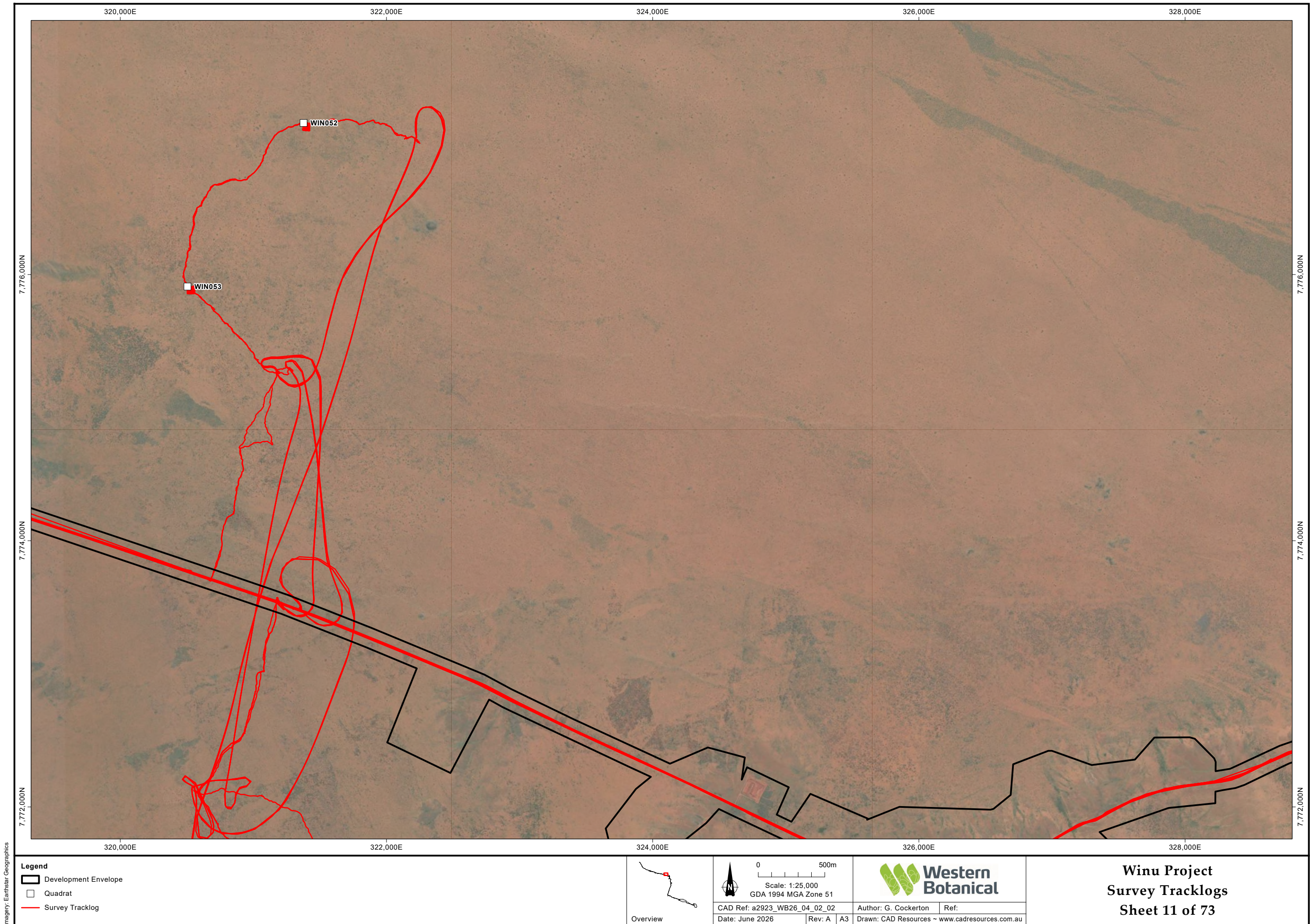
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Date: June 2026	Rev: A A3

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- Legend**
- Development Envelope
 - Quadrat
 - Survey Tracklog



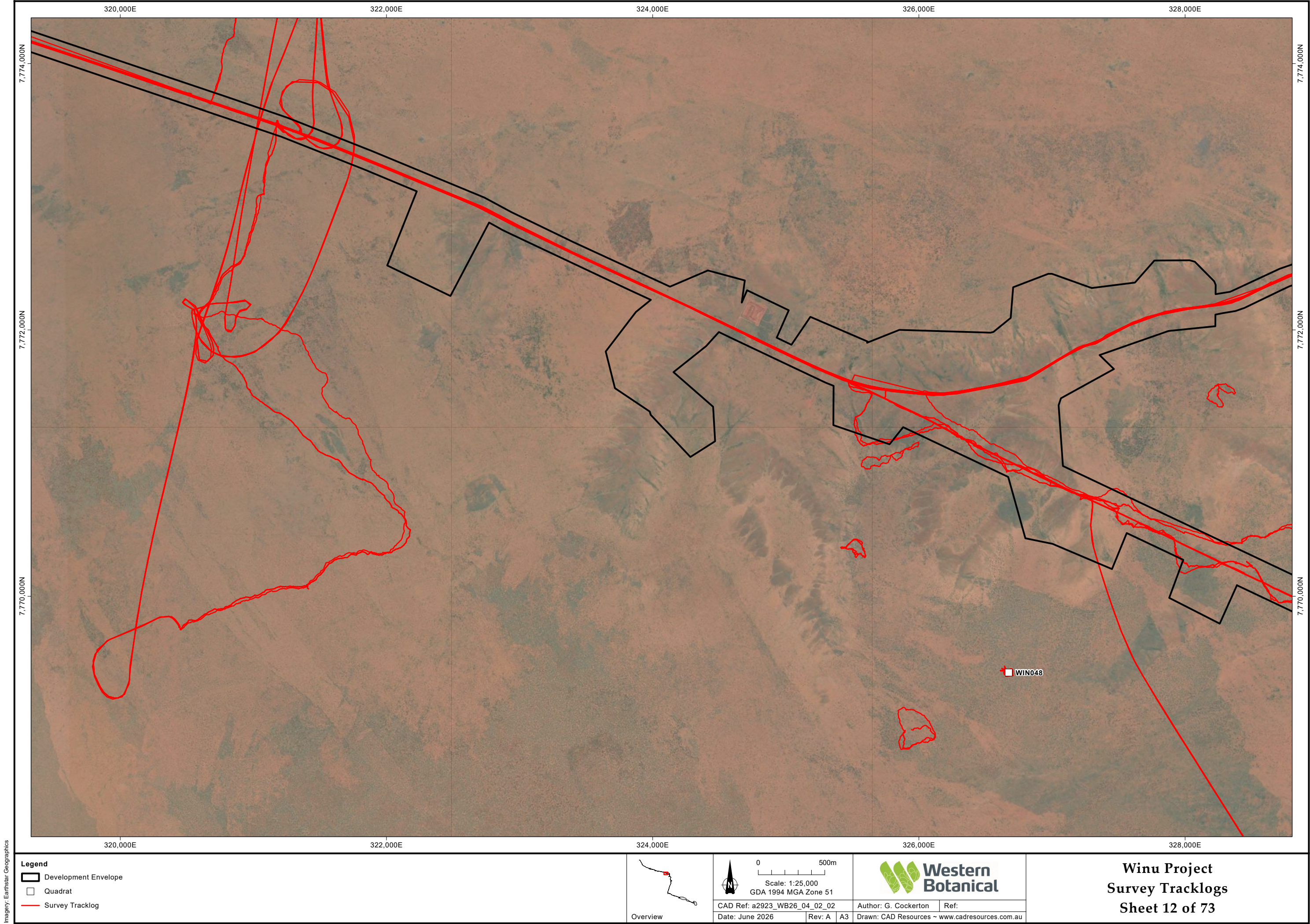
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Date: June 2026	Rev: A A3

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Imagery: Earthstar Geographics

- Legend**
- Development Envelope
 - Quadrat
 - Survey Tracklog



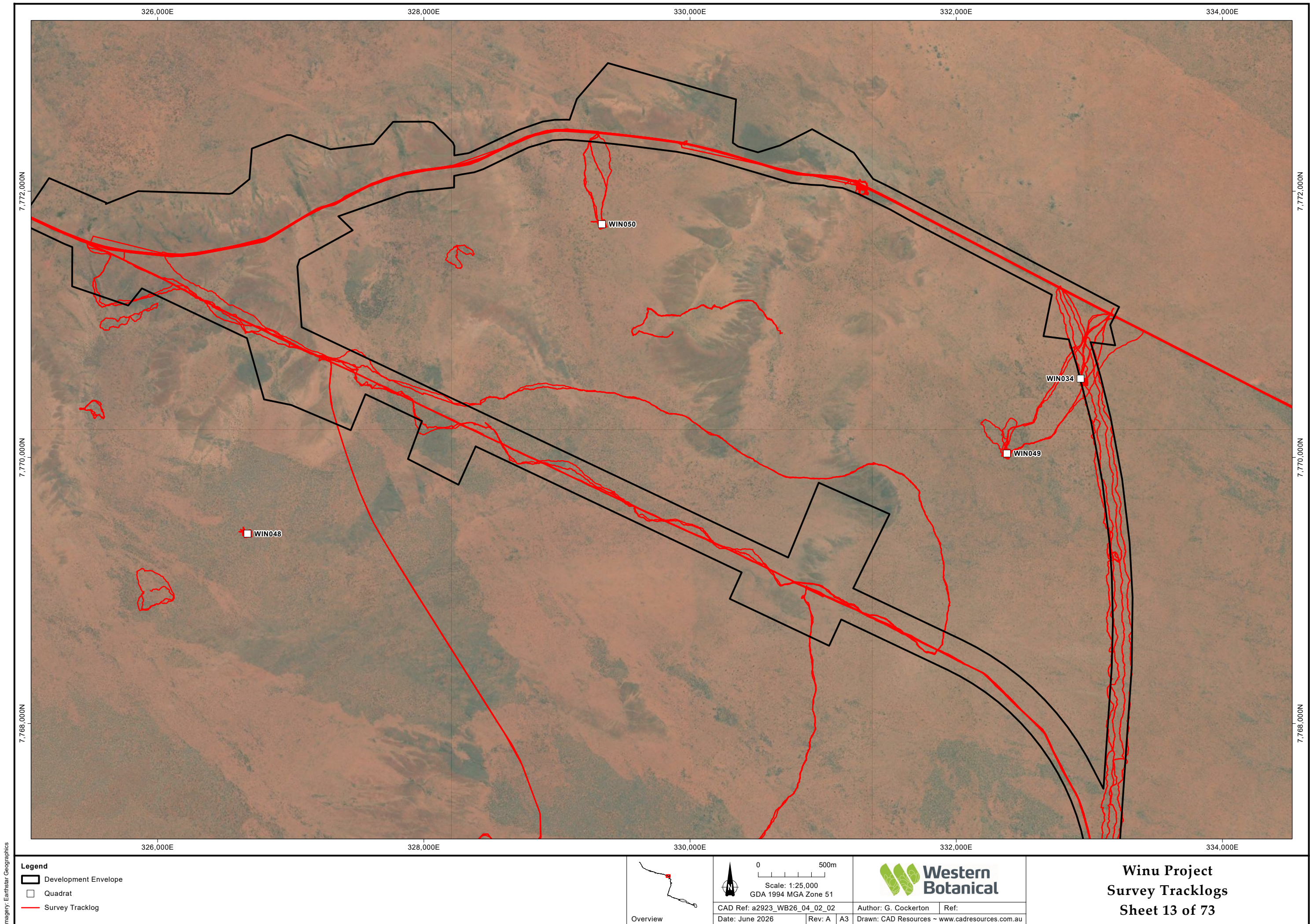
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CAD Ref: a2923_WB26_04_02_02
Date: June 2026

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Sheet 12 of 73**



Imagery: Earthstar Geographics

- Legend**
- Development Envelope
 - Quadrat
 - Survey Tracklog



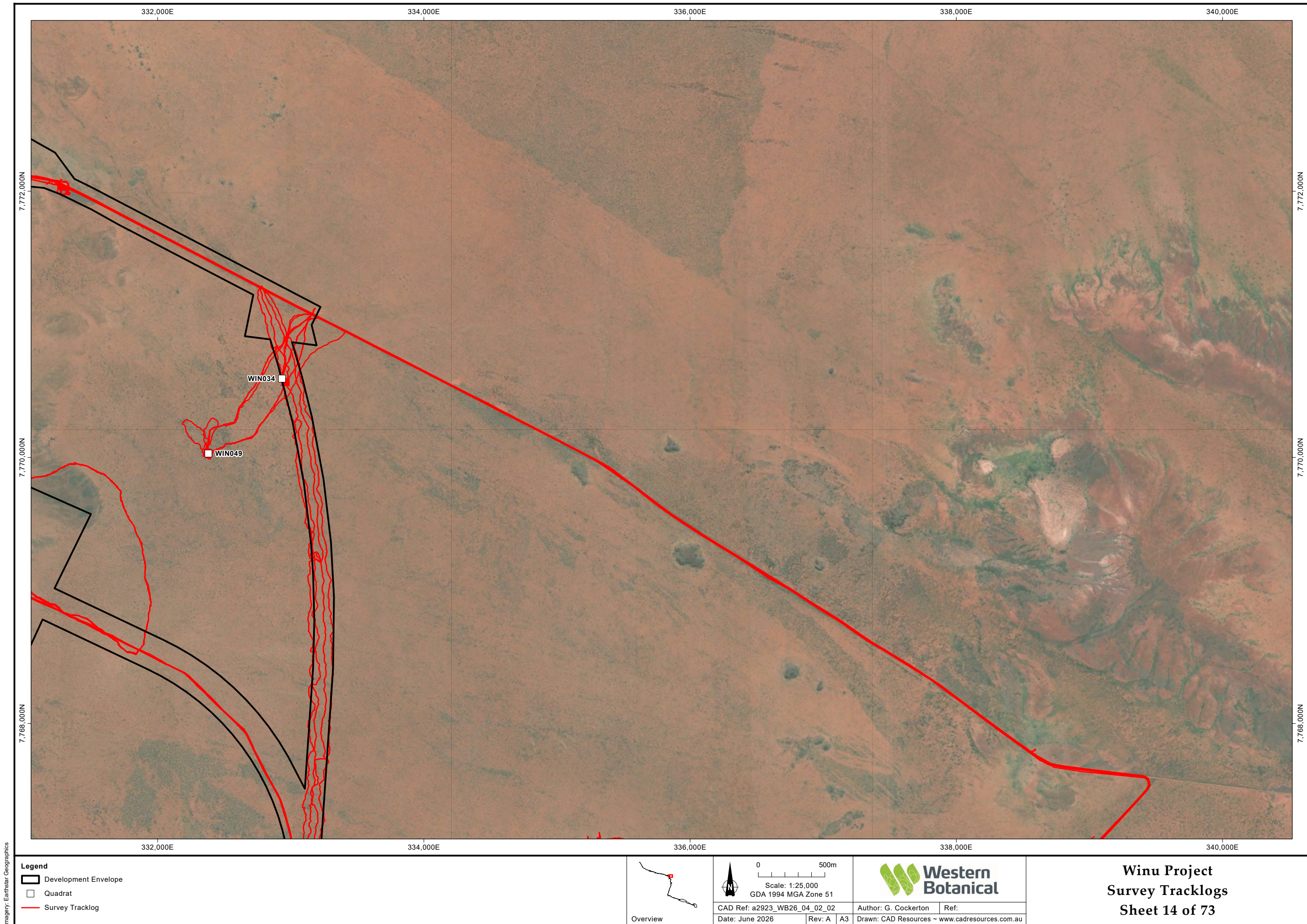
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Western Botanical

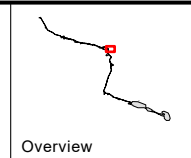
Author: G. Cockerton	Ref:
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Sheet 13 of 73**



Imagery: Earthstar Geographics

- Legend**
- Development Envelope
 - Quadrat
 - Survey Tracklog



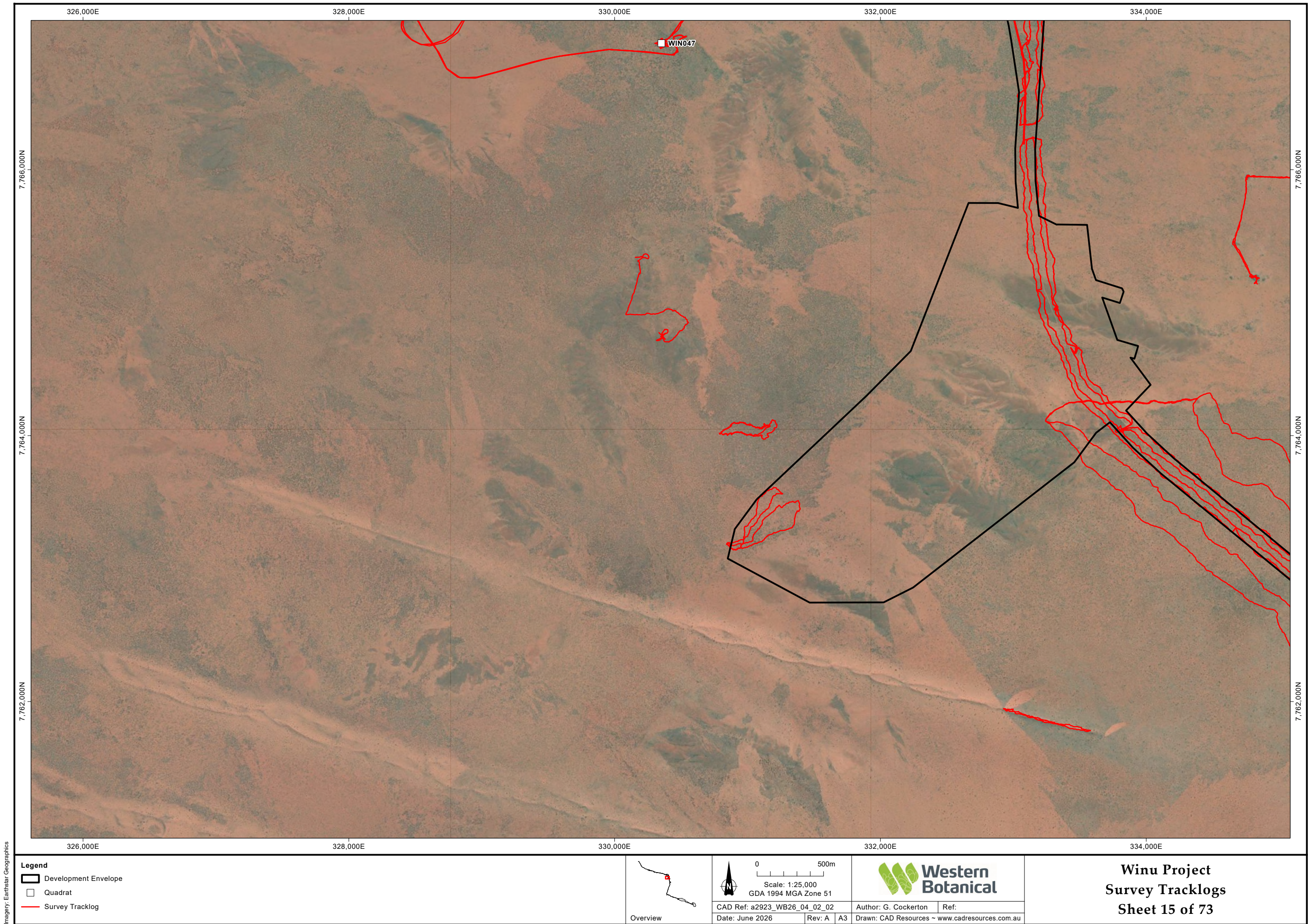
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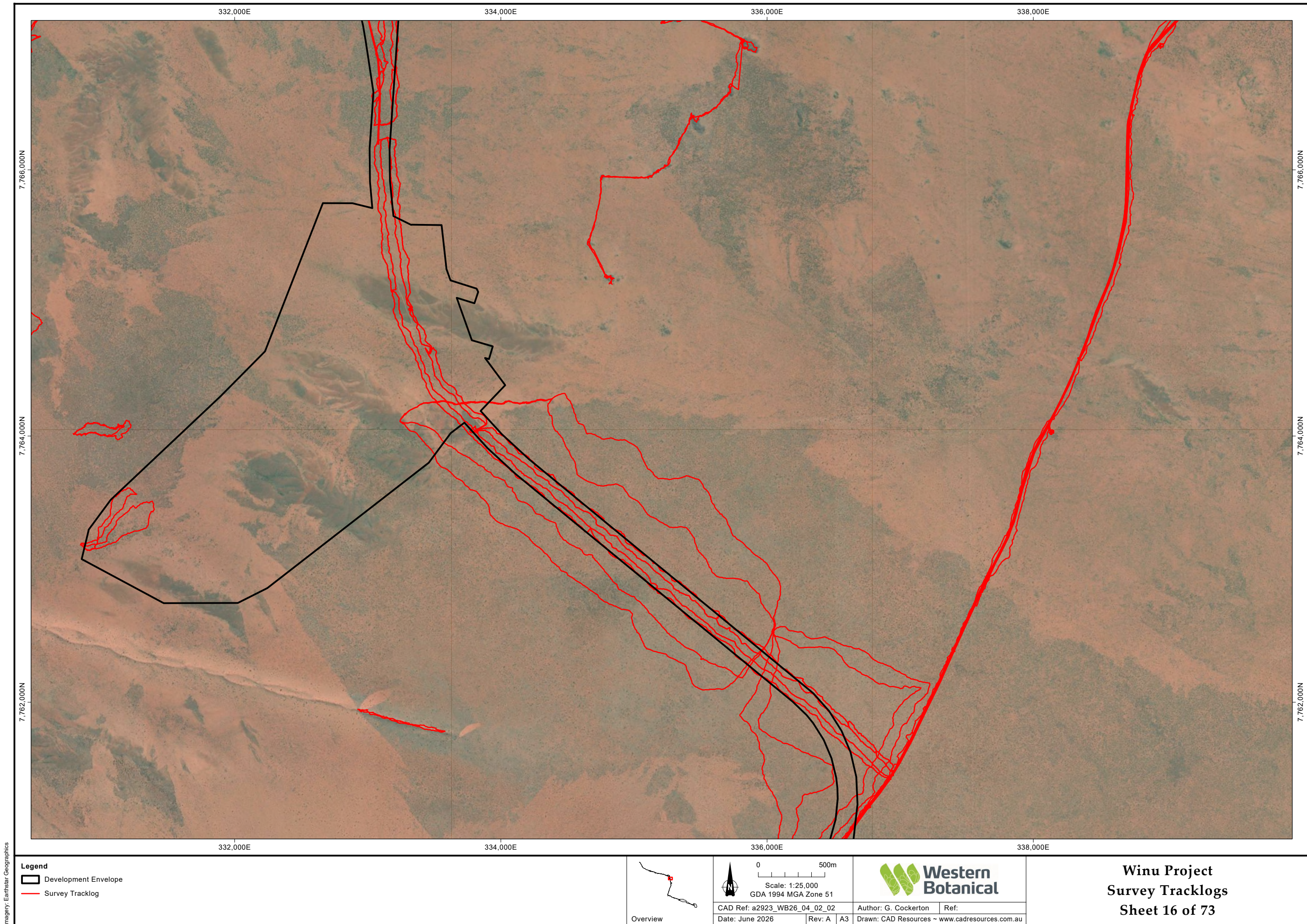
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Date: June 2026

Western Botanical

Author: G. Cockerton Ref:
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Imagery: Earthstar Geographics

- Legend**
- Development Envelope
 - Survey Tracklog



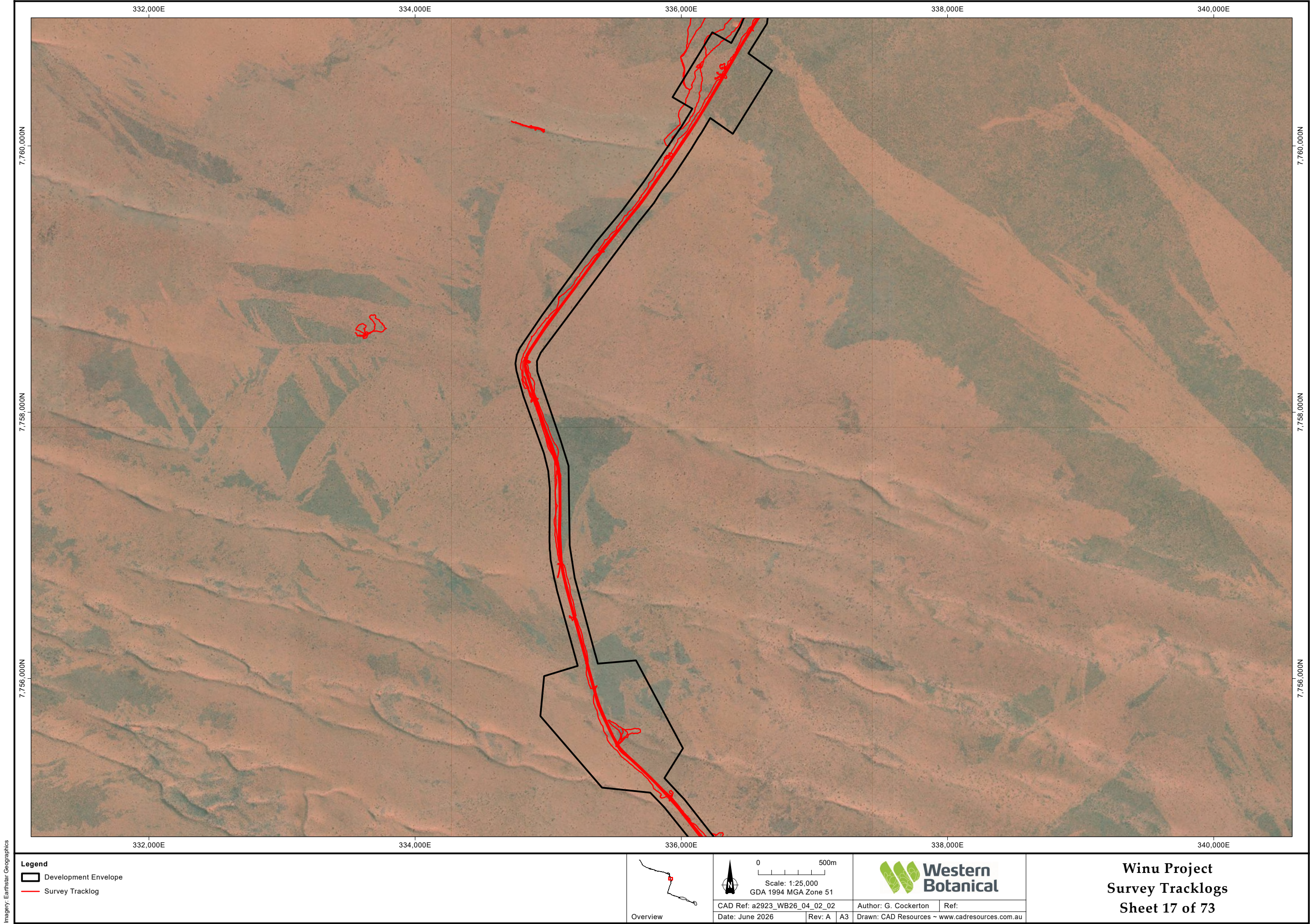
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GDA 1994 MGA Zone 51

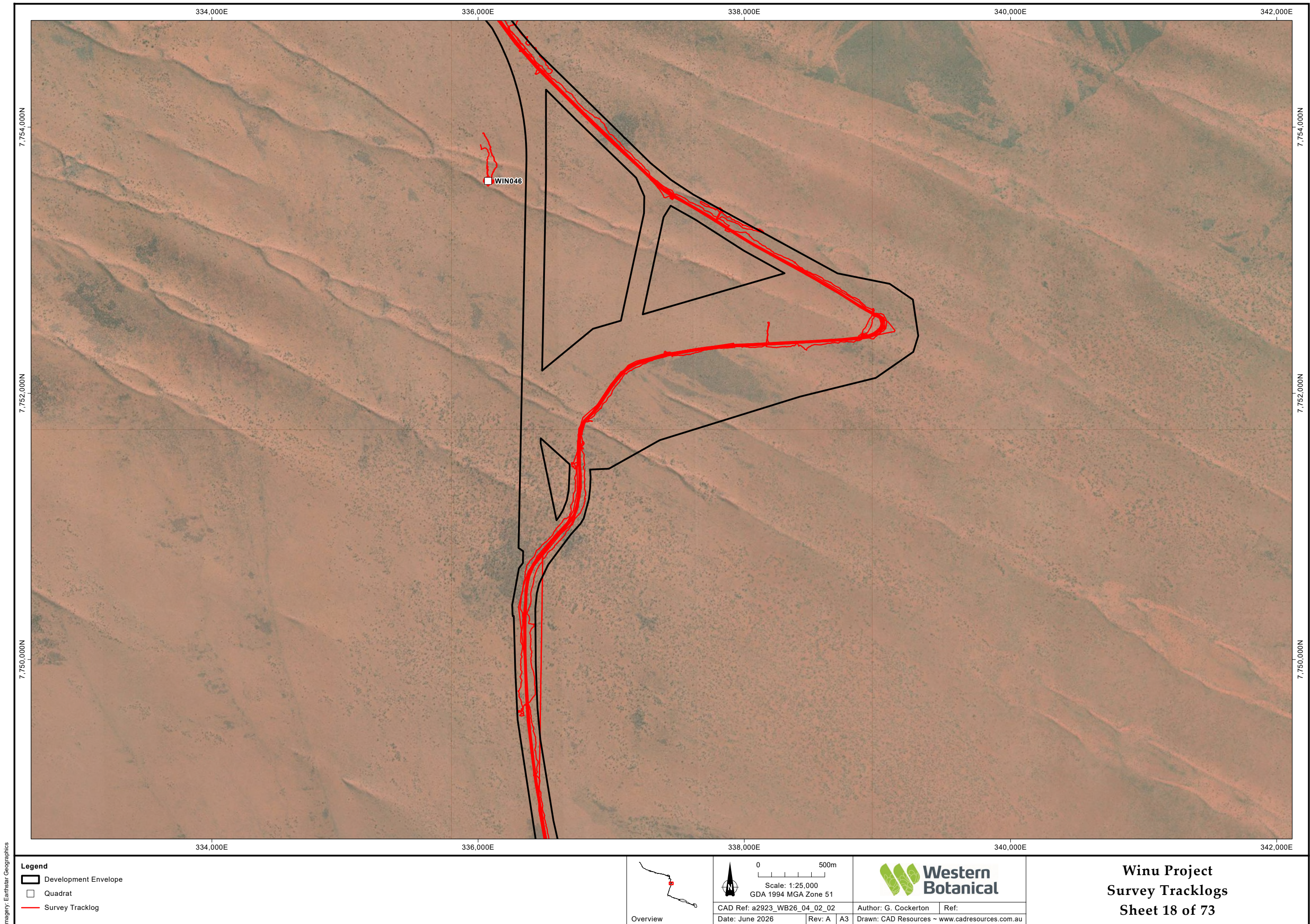
CAD Ref: a2923_WB26_04_02_02	
Date: June 2026	Rev: A A3

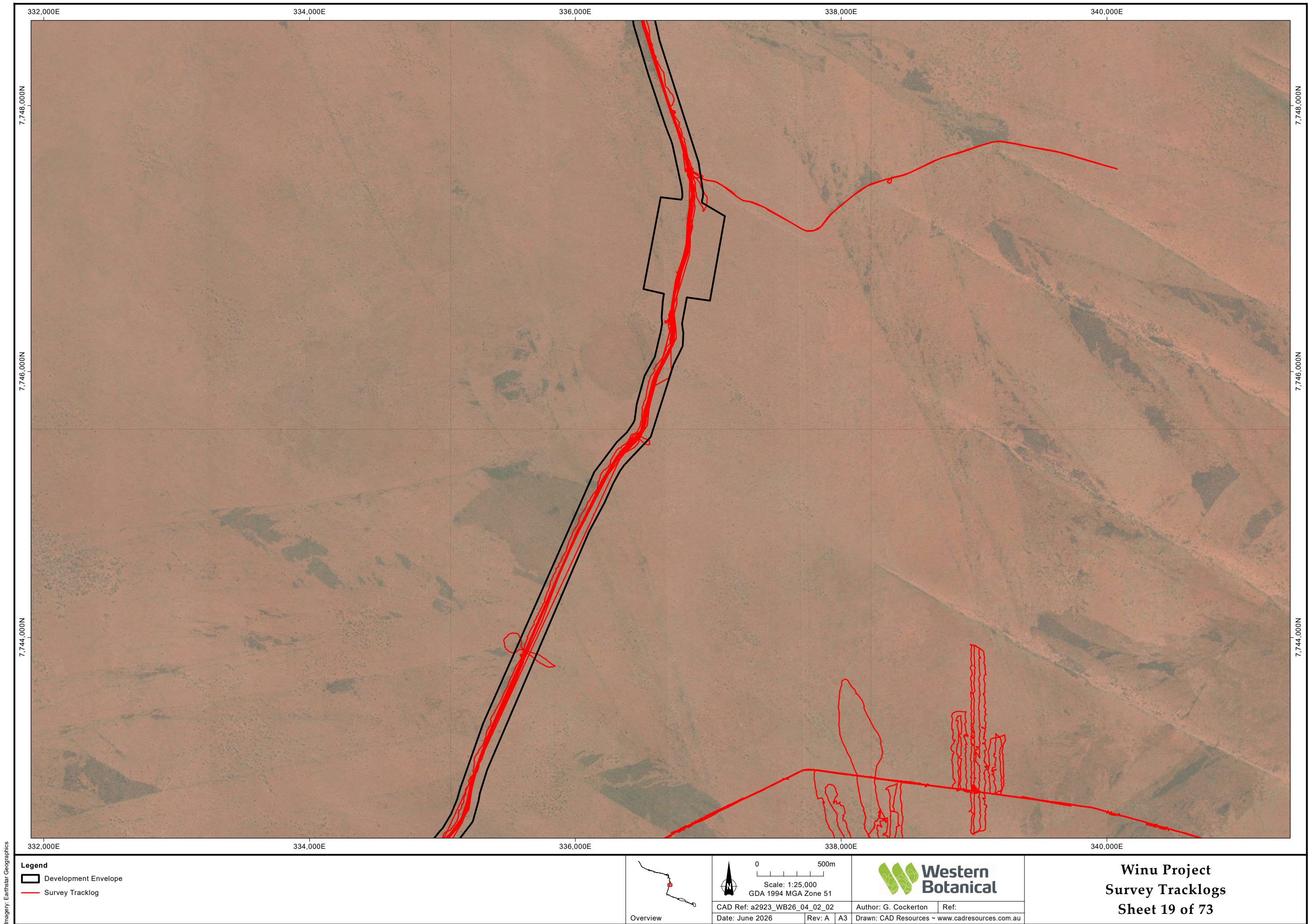
Western Botanical

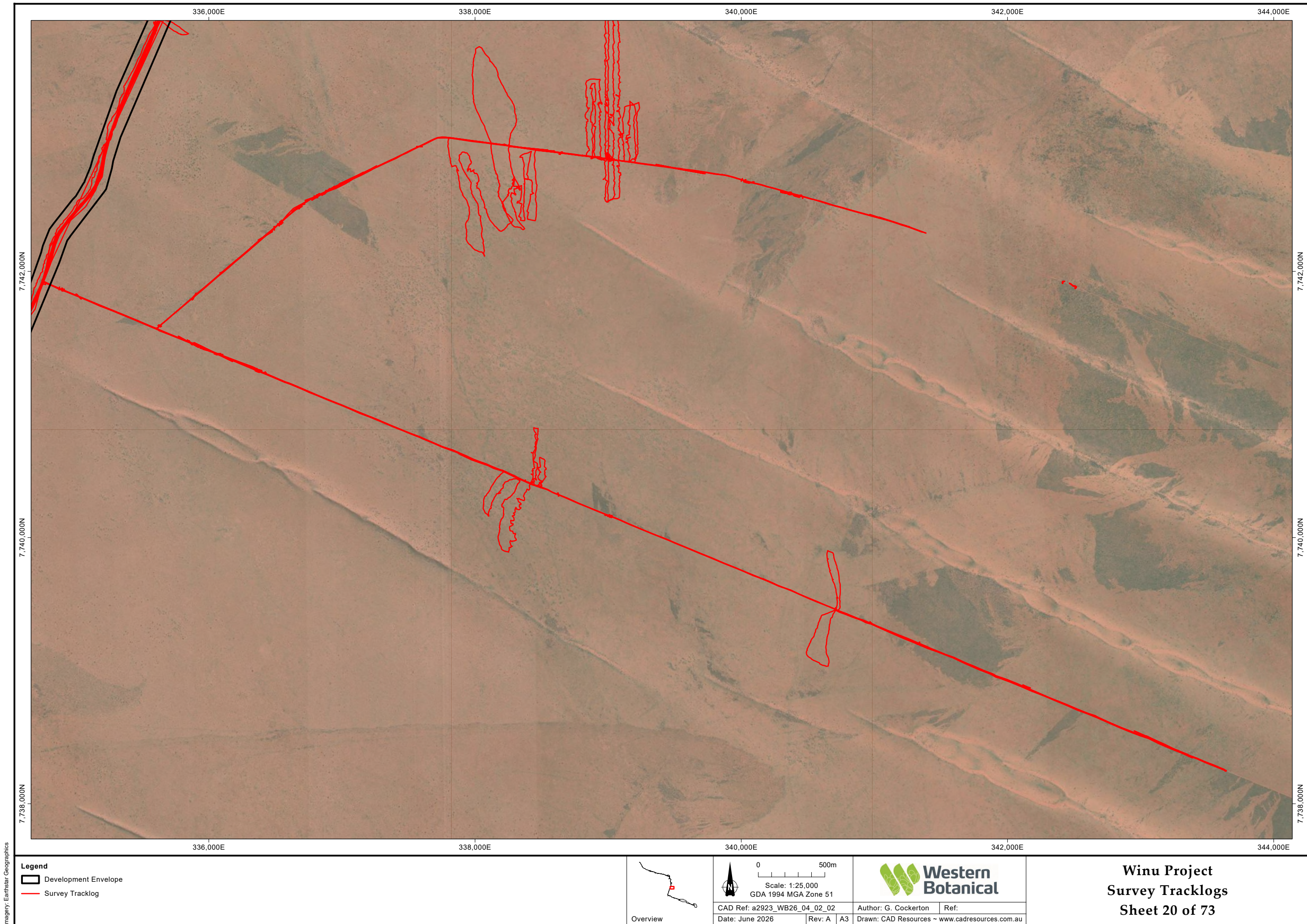
Author: G. Cockerton	Ref:
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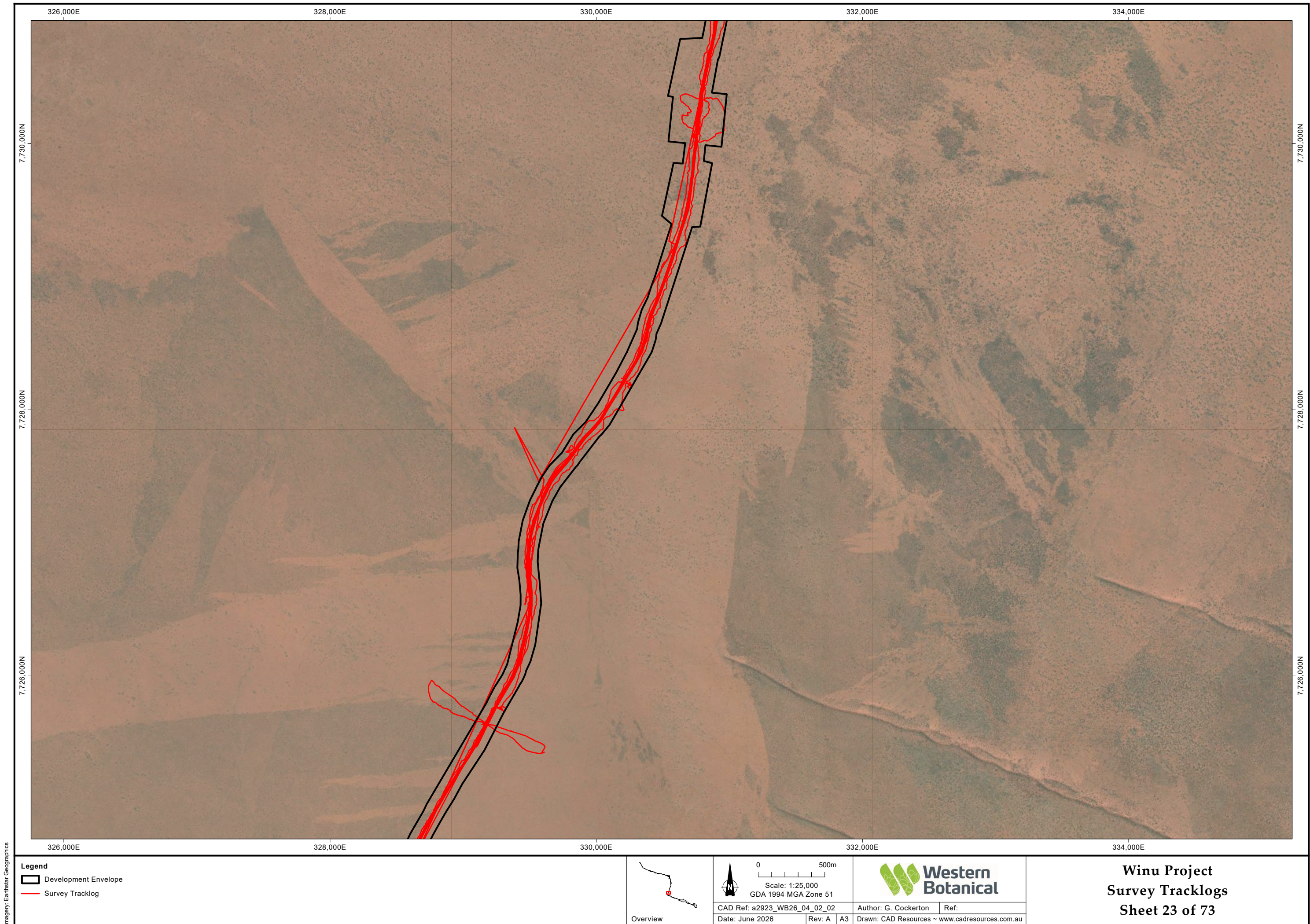












Imagery: Earthstar Geographics

- Legend**
- Development Envelope
 - Survey Tracklog



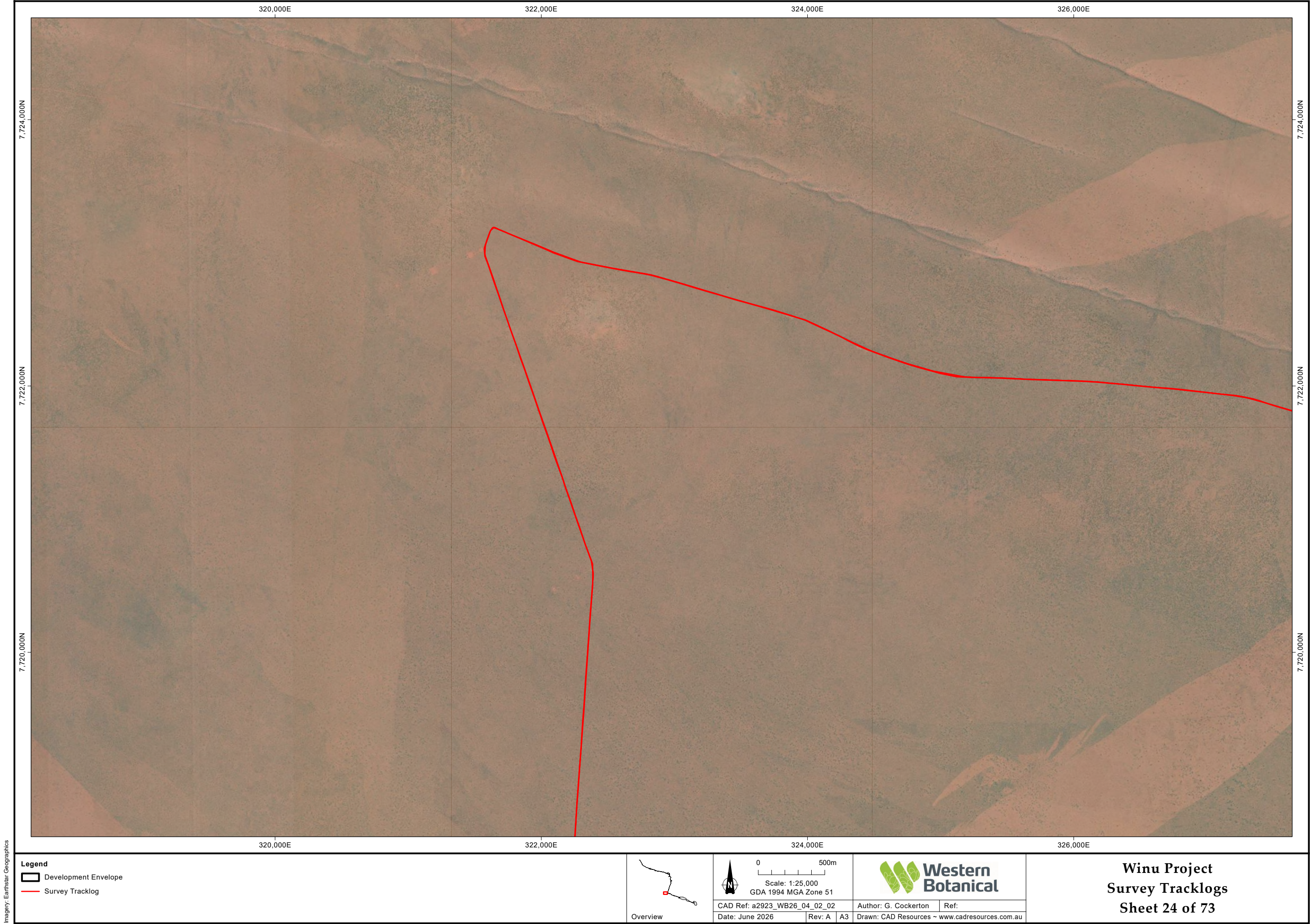
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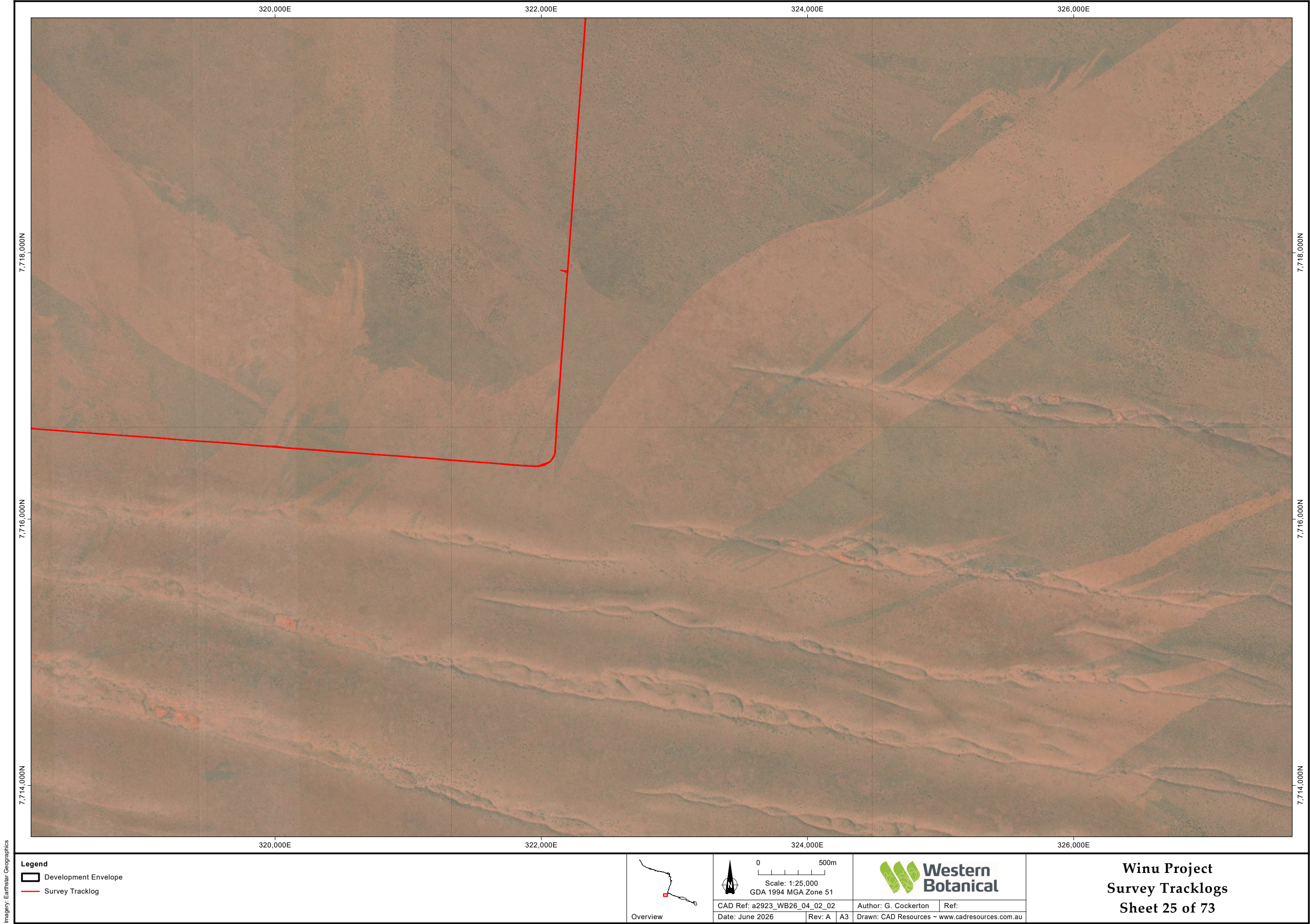
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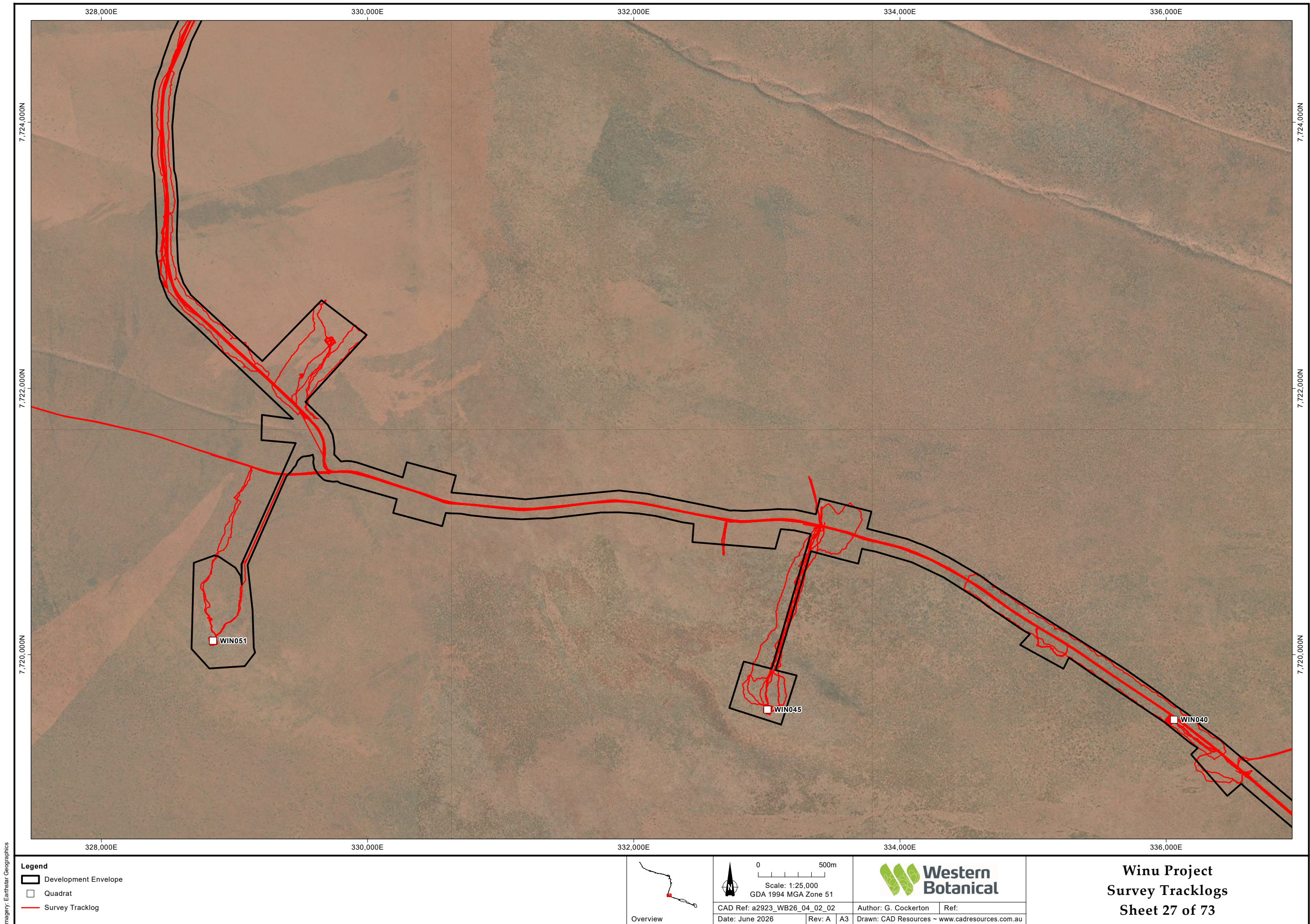
Author: G. Cockerton
Ref:
Drawn: CAD Resources ~ www.cadresources.com.au

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Imagery: Earthstar Geographics

- Legend**
- Development Envelope
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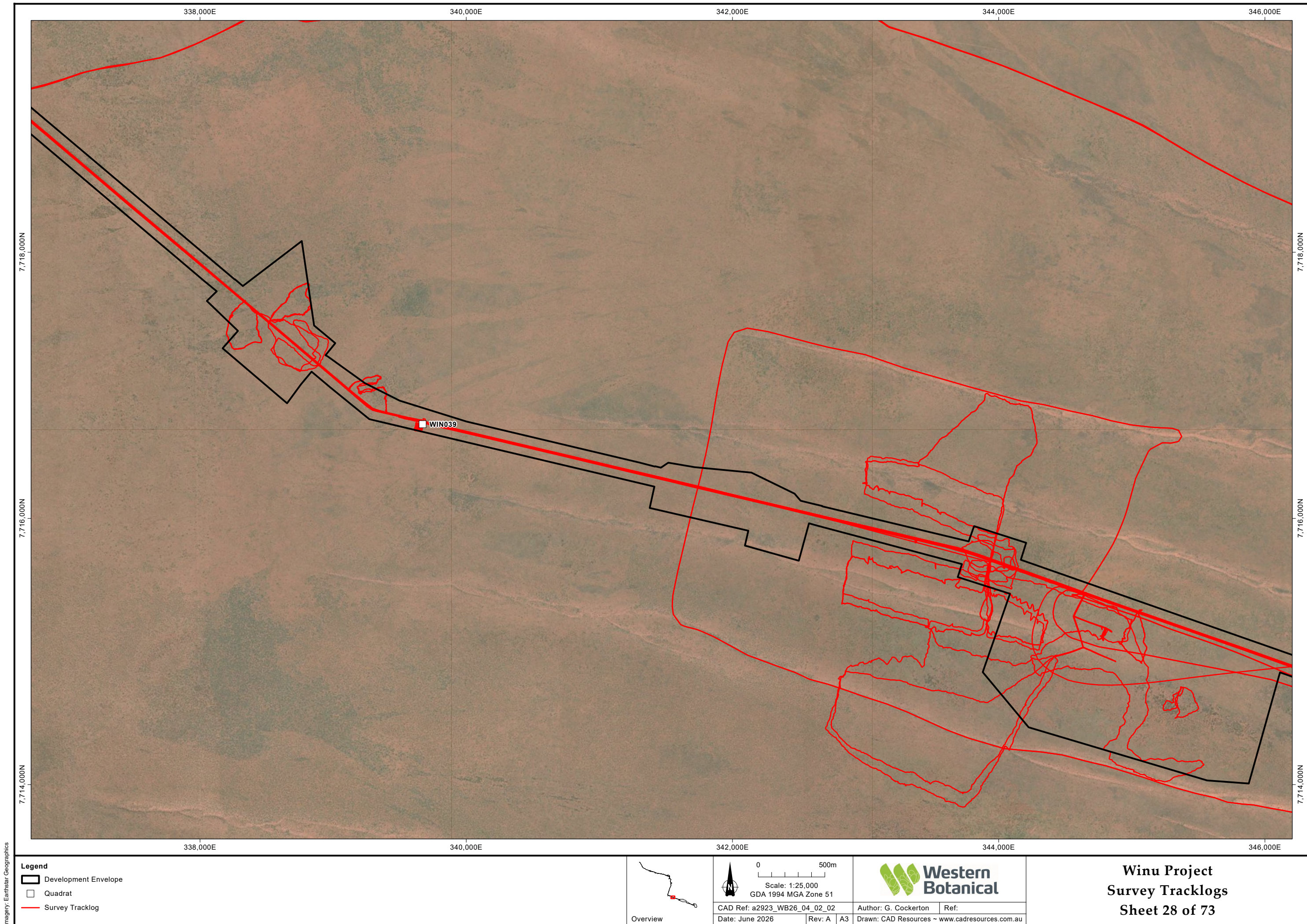


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GDA 1994 MGA Zone 51

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Date: June 2026

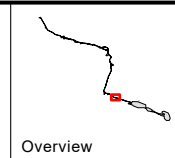
 **Western Botanical**

Author: G. Cockerton Ref:
Drawn: CAD Resources ~ www.cadresources.com.au



Imagery: Earthstar Geographics

- Legend**
- Development Envelope
 - Quadrat
 - Survey Tracklog



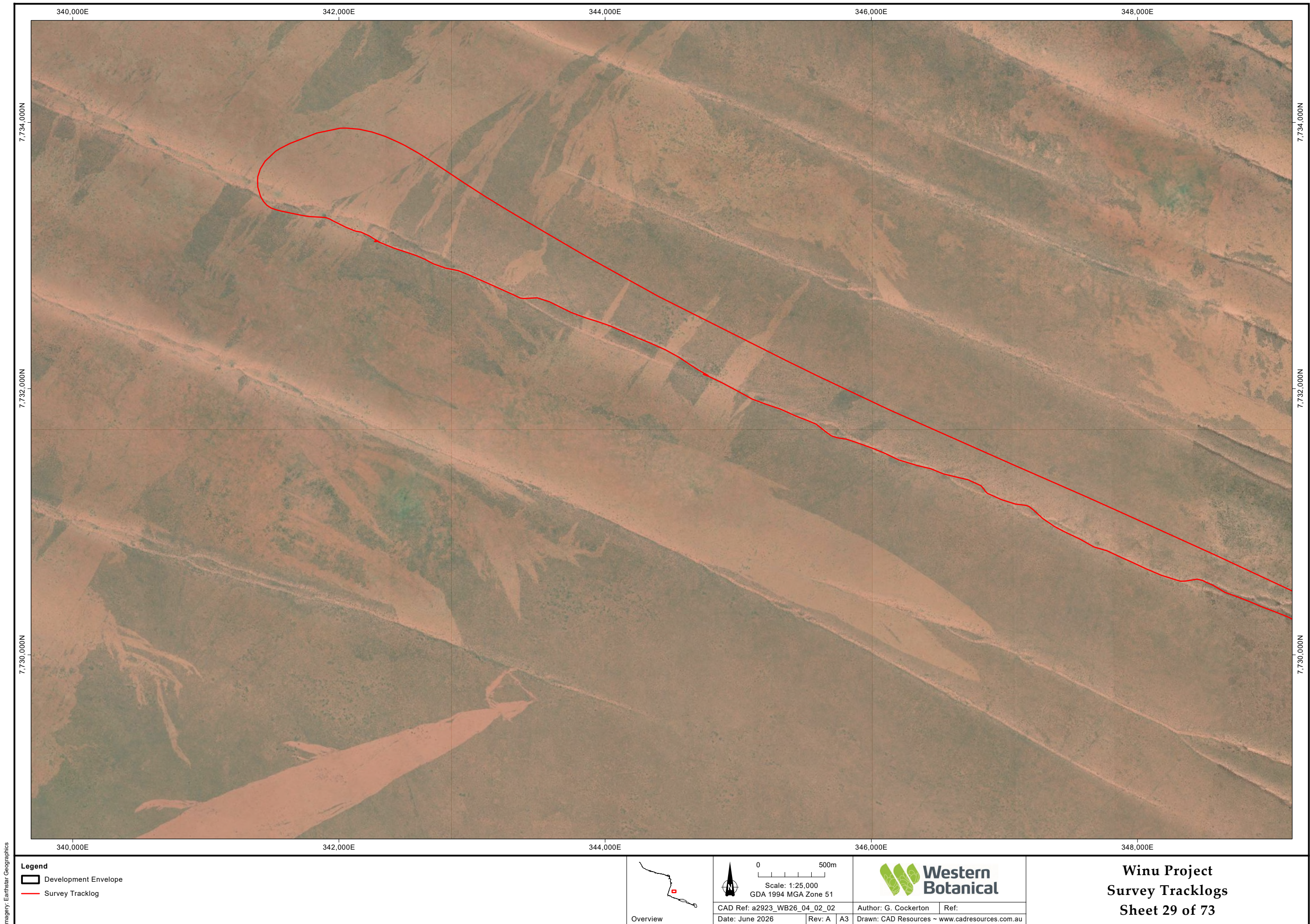
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GDA 1994 MGA Zone 51

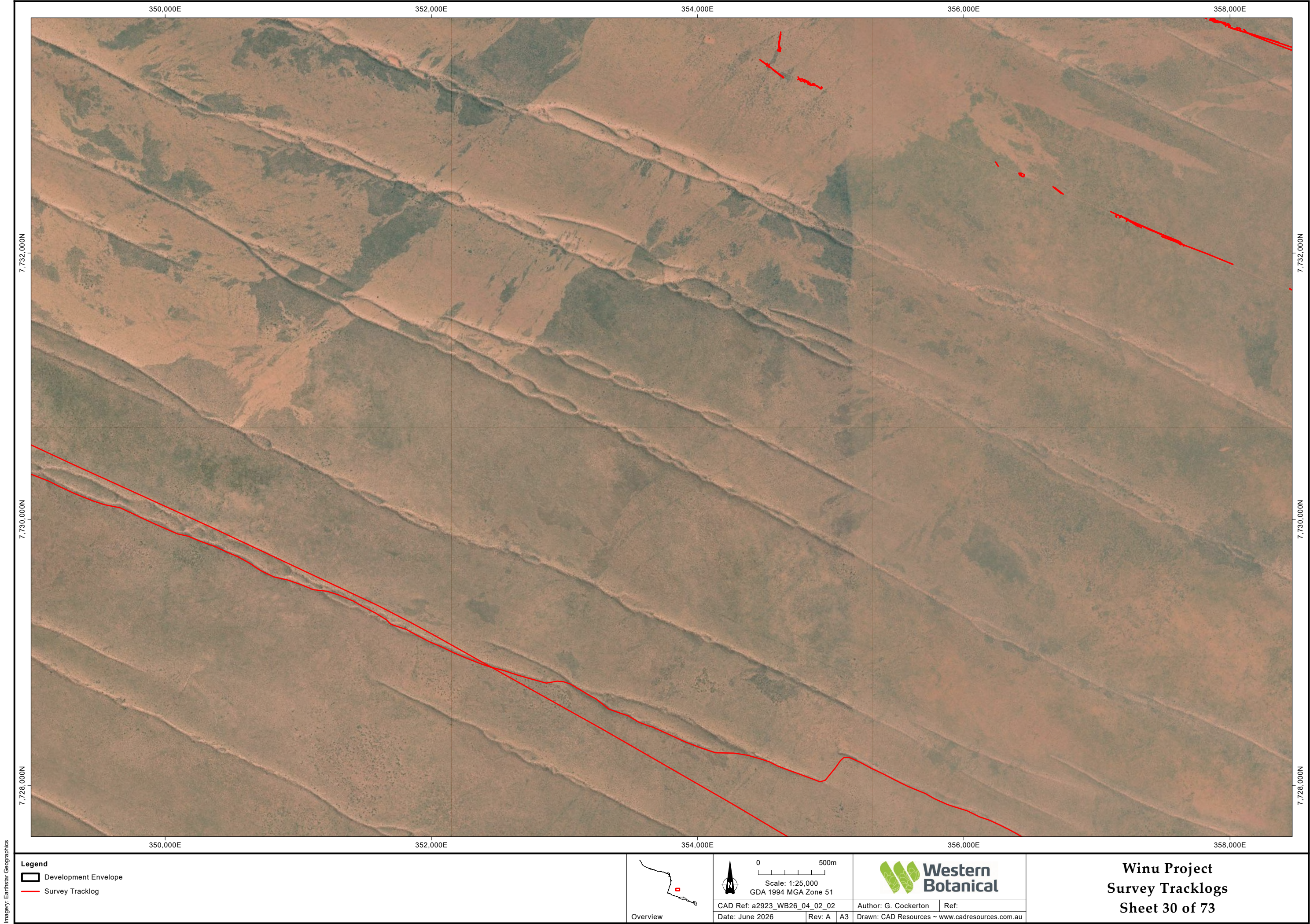
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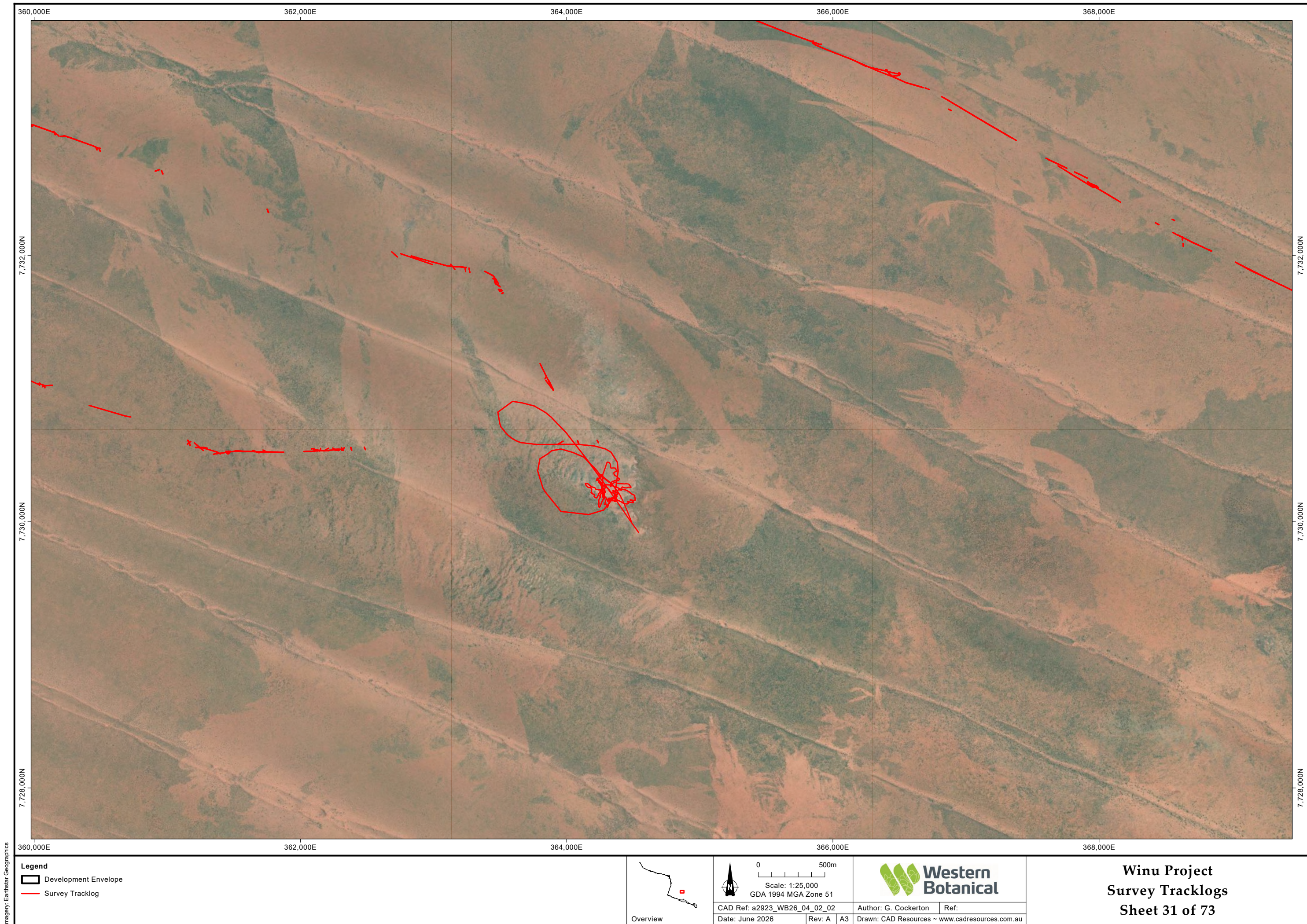
Western Botanical

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Ref:
Drawn: CAD Resources ~ www.cadresources.com.au

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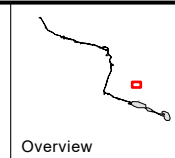






Imagery: Earthstar Geographics

- Legend**
- Development Envelope
 - Survey Tracklog



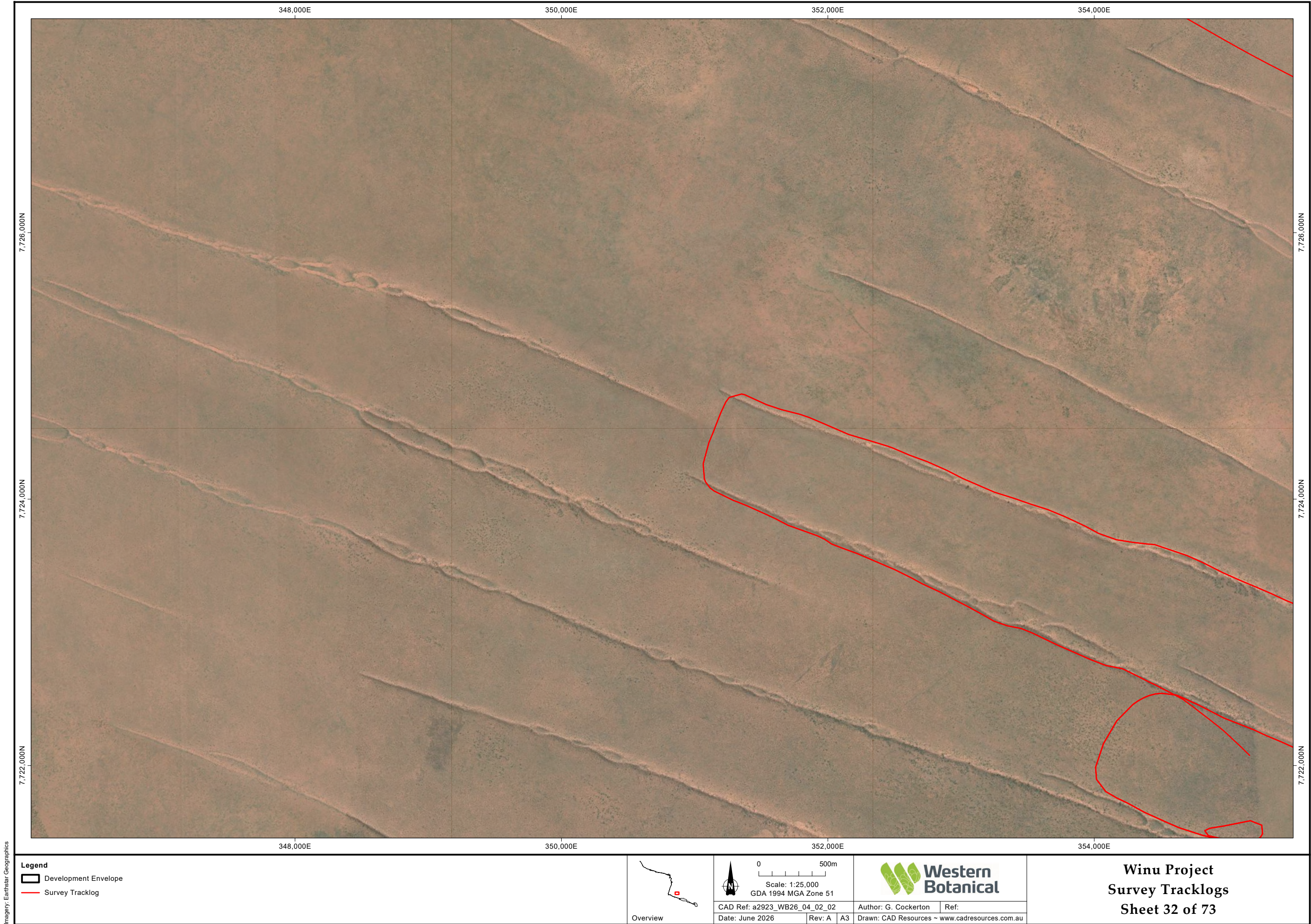
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GDA 1994 MGA Zone 51

CAD Ref: a2923_WB26_04_02_02		
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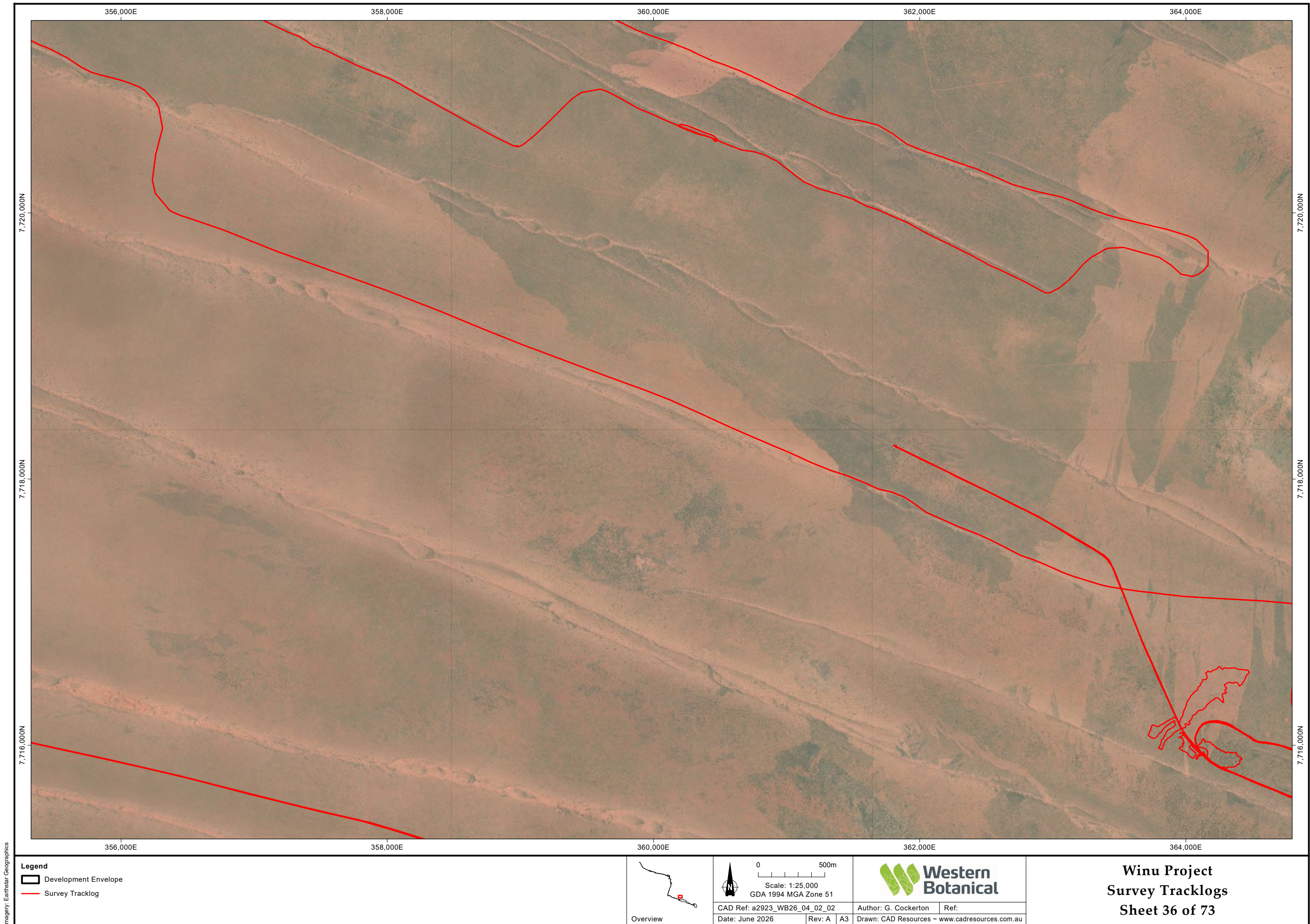
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GDA 1994 MGA Zone 51

CAD Ref: a2923_WB26_04_02_02
Date: June 2026

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Author: G. Cockerton Ref:
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Imagery: Earthstar Geographics

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Scale: 1:25,000
GDA 1994 MGA Zone 51

CAD Ref: a2923_WB26_04_02_02		
Date: June 2026	Rev: A	A3

Western Botanical

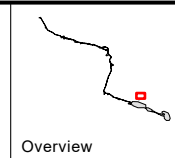
Author: G. Cockerton	Ref:
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Imagery: Earthstar Geographics

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Overview

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GDA 1994 MGA Zone 51

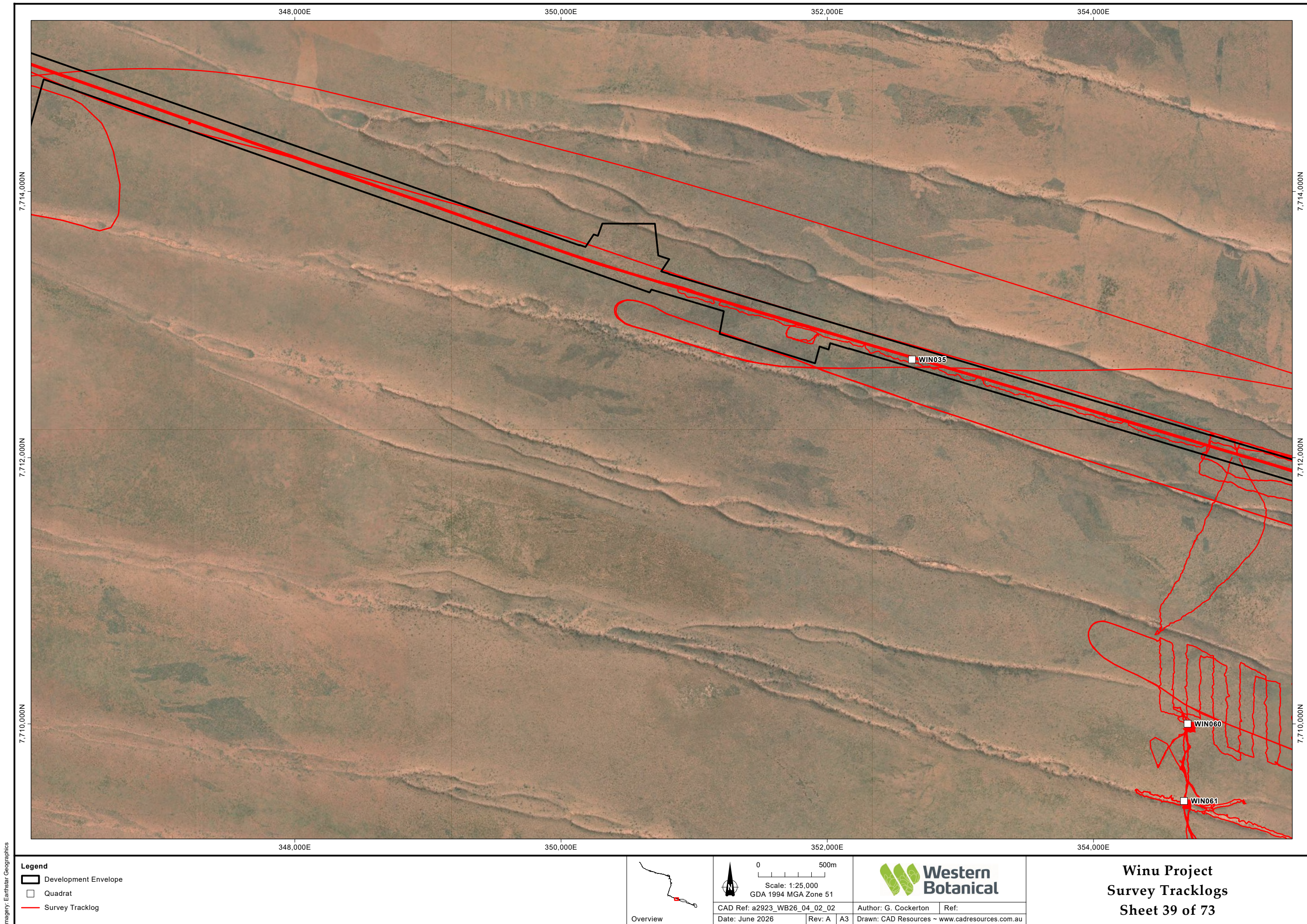
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Date: June 2026	Rev: A	A3

Western Botanical

Author: G. Cockerton	Ref:
Drawn: CAD Resources ~ www.cadresources.com.au	

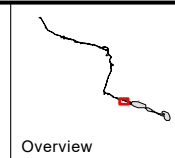
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Imagery: Earthstar Geographics

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GDA 1994 MGA Zone 51

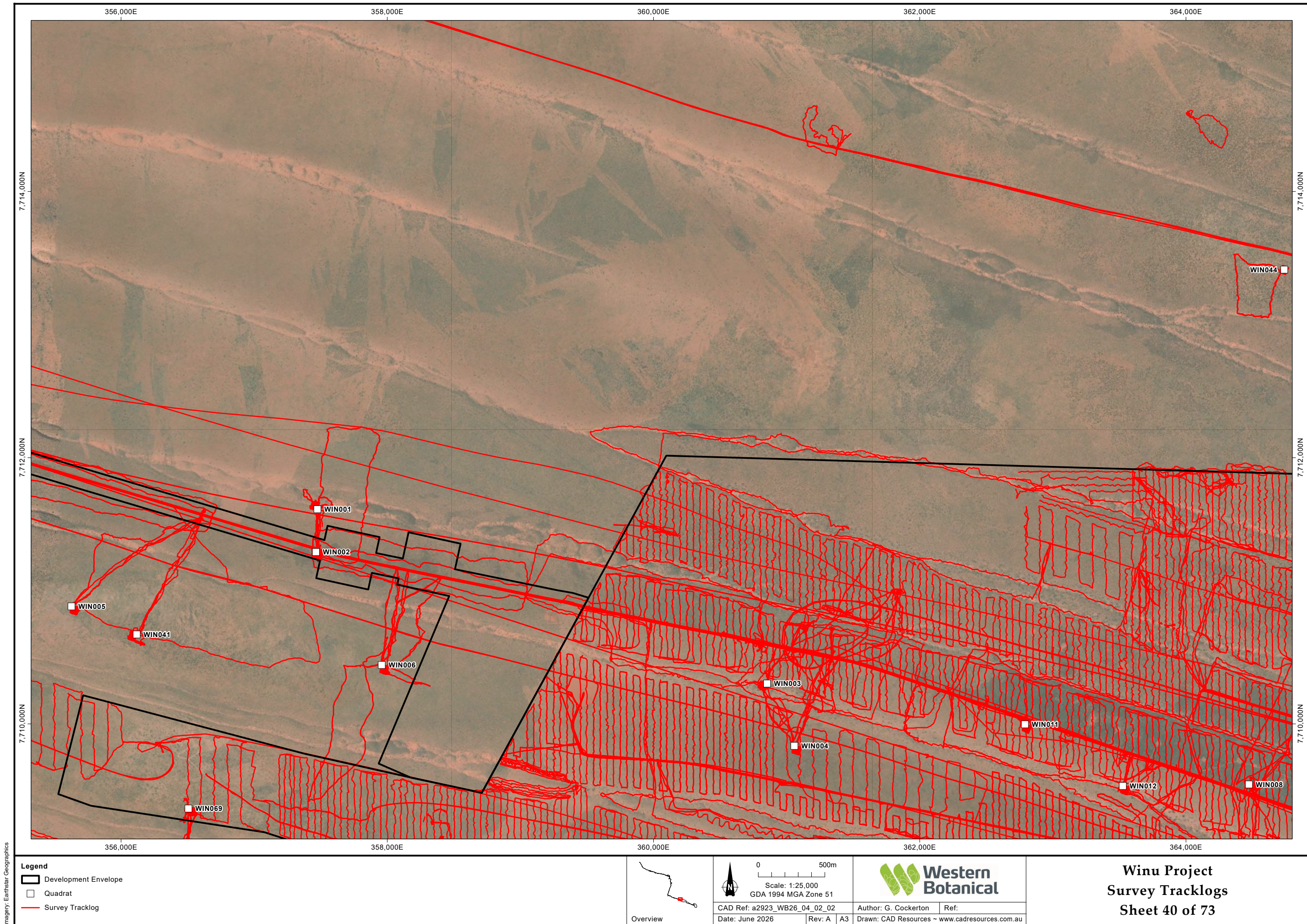
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Rev: A A3

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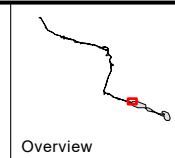
Author: G. Cockerton Ref:
Drawn: CAD Resources ~ www.cadresources.com.au

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0 500m
Scale: 1:25,000
GDA 1994 MGA Zone 51

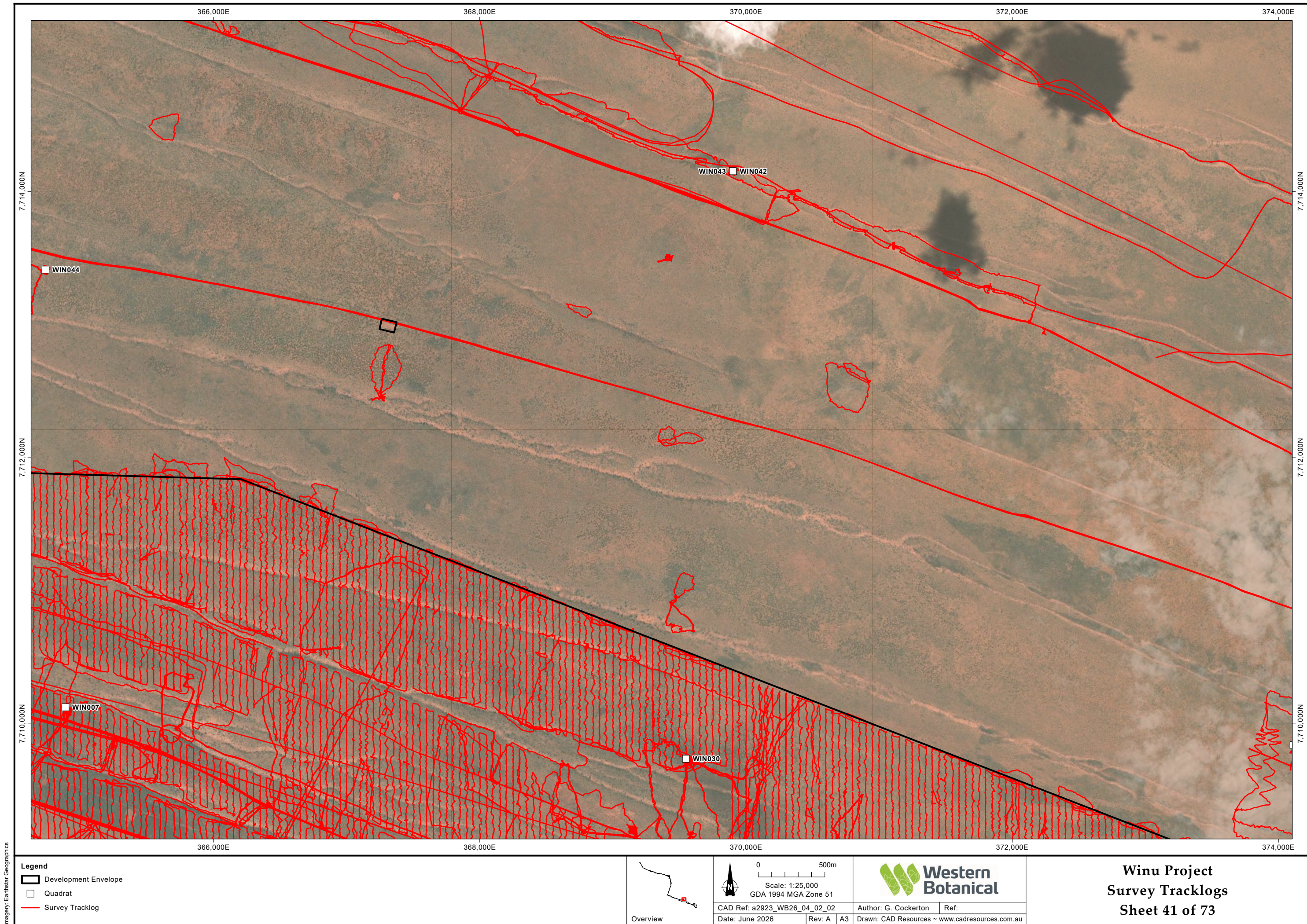
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Rev: A A3

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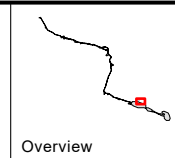
Author: G. Cockerton Ref:
Drawn: CAD Resources ~ www.cadresources.com.au

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Overview

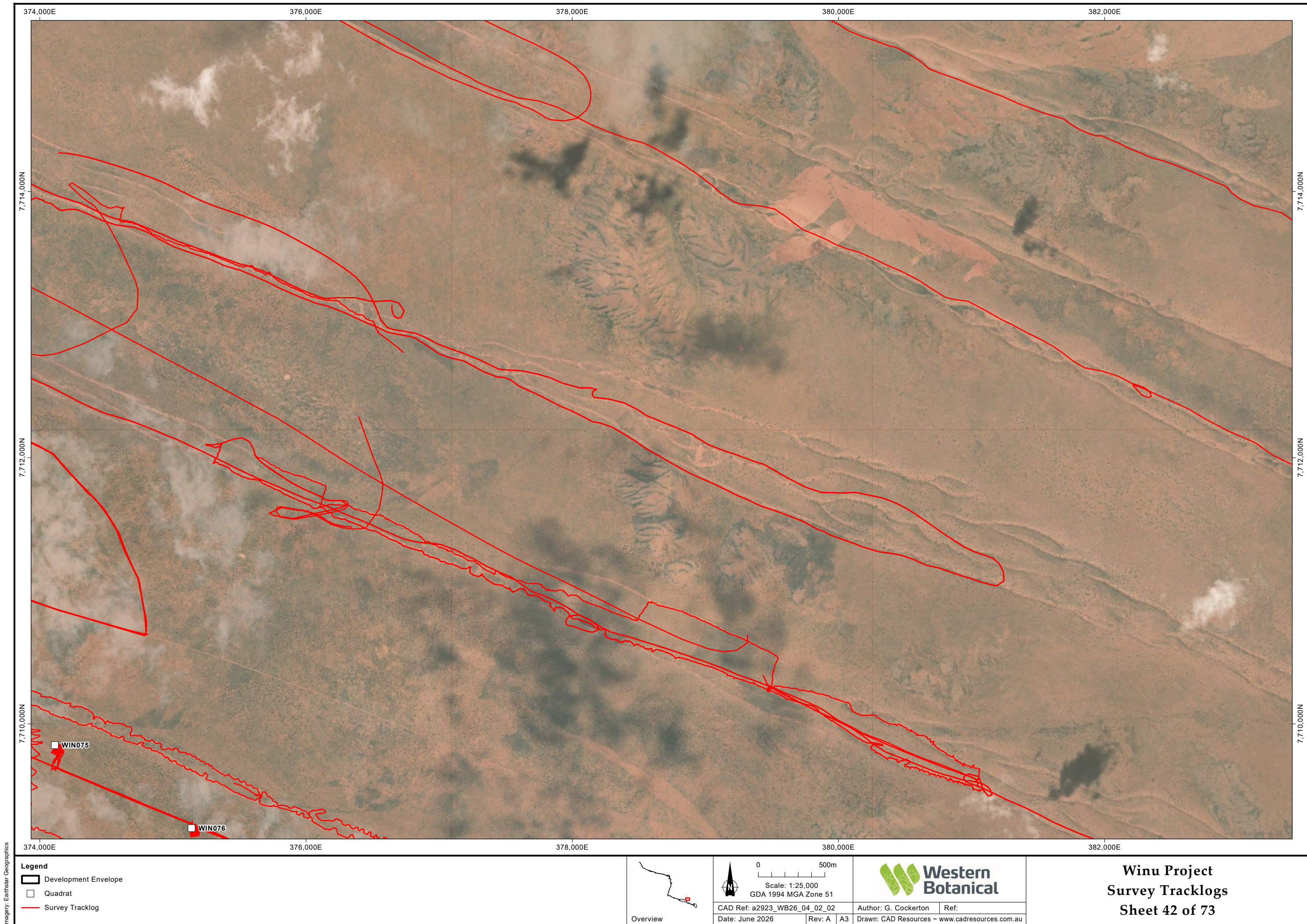
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Rev: A A3

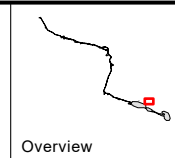
Western Botanical

Author: G. Cockerton Ref:
Drawn: CAD Resources ~ www.cadresources.com.au



Imagery: Earthstar Geographics

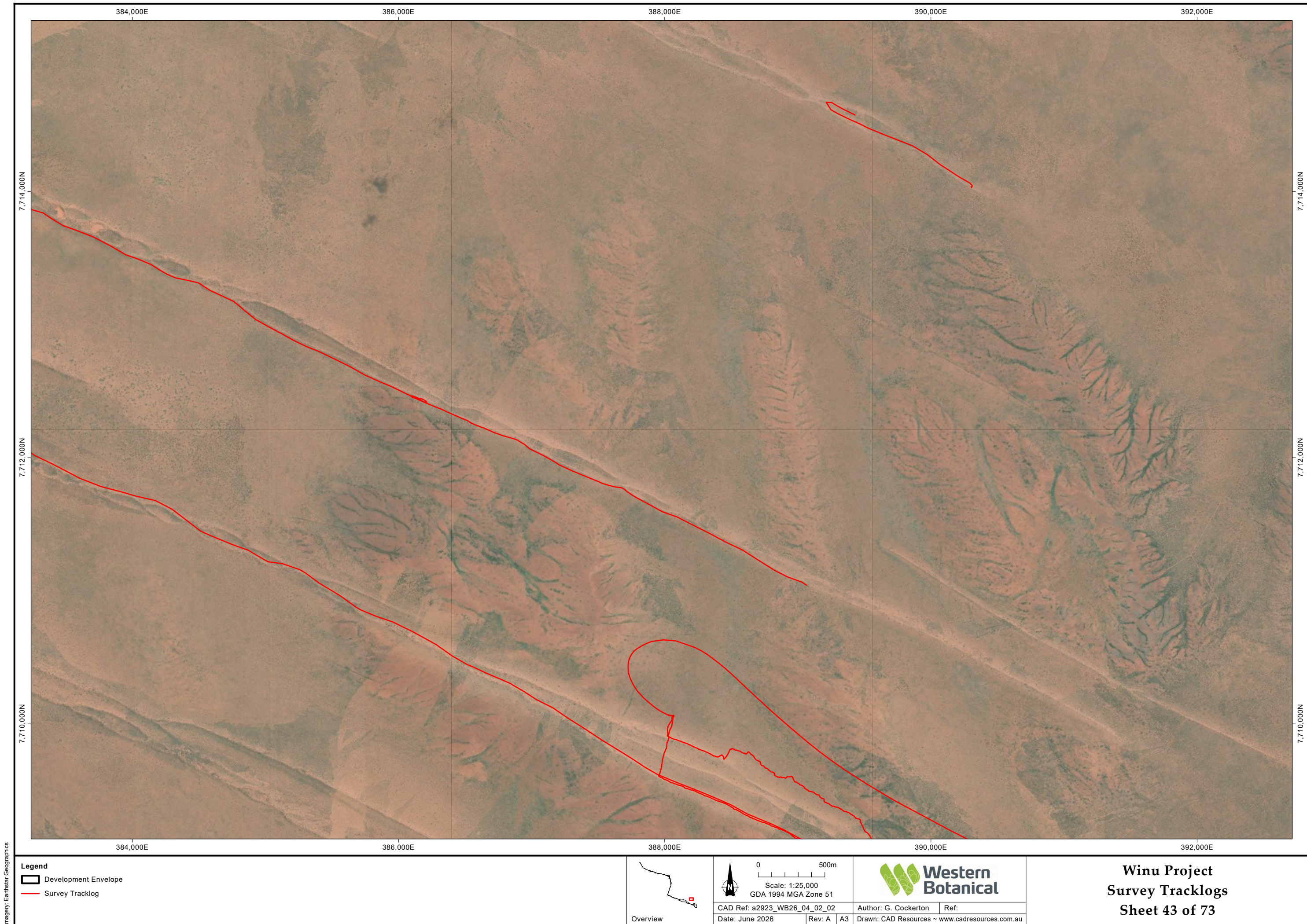
- Legend**
- Development Envelope
 - Quadrat
 - Survey Tracklog



Overview

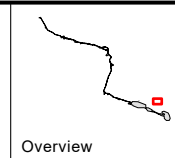
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CAD Ref: a2923_WB26_04_02_02		Author: G. Cockerton	Ref:
Date: June 2026	Rev: A	A3	Drawn: CAD Resources ~ www.cadresources.com.au

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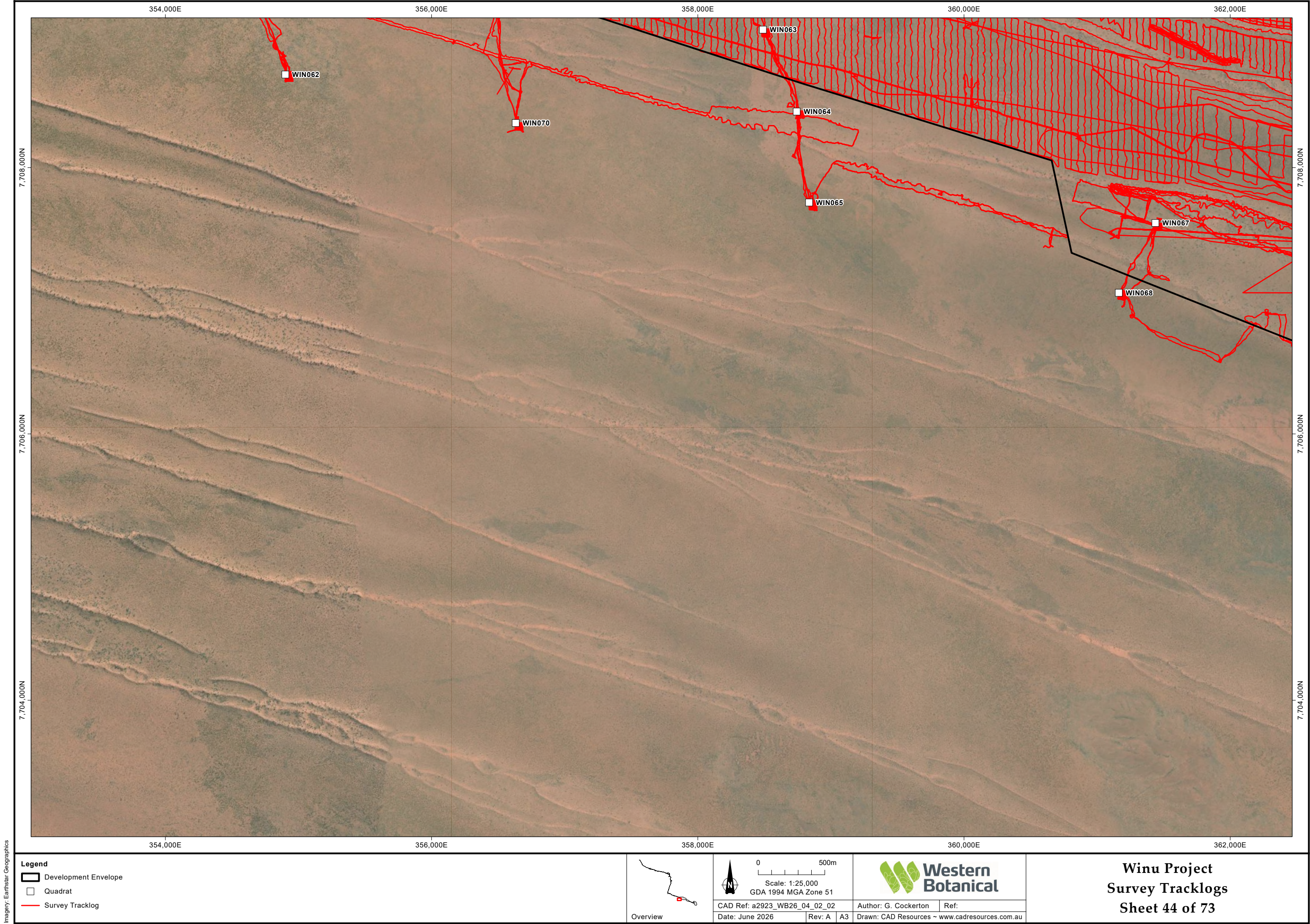
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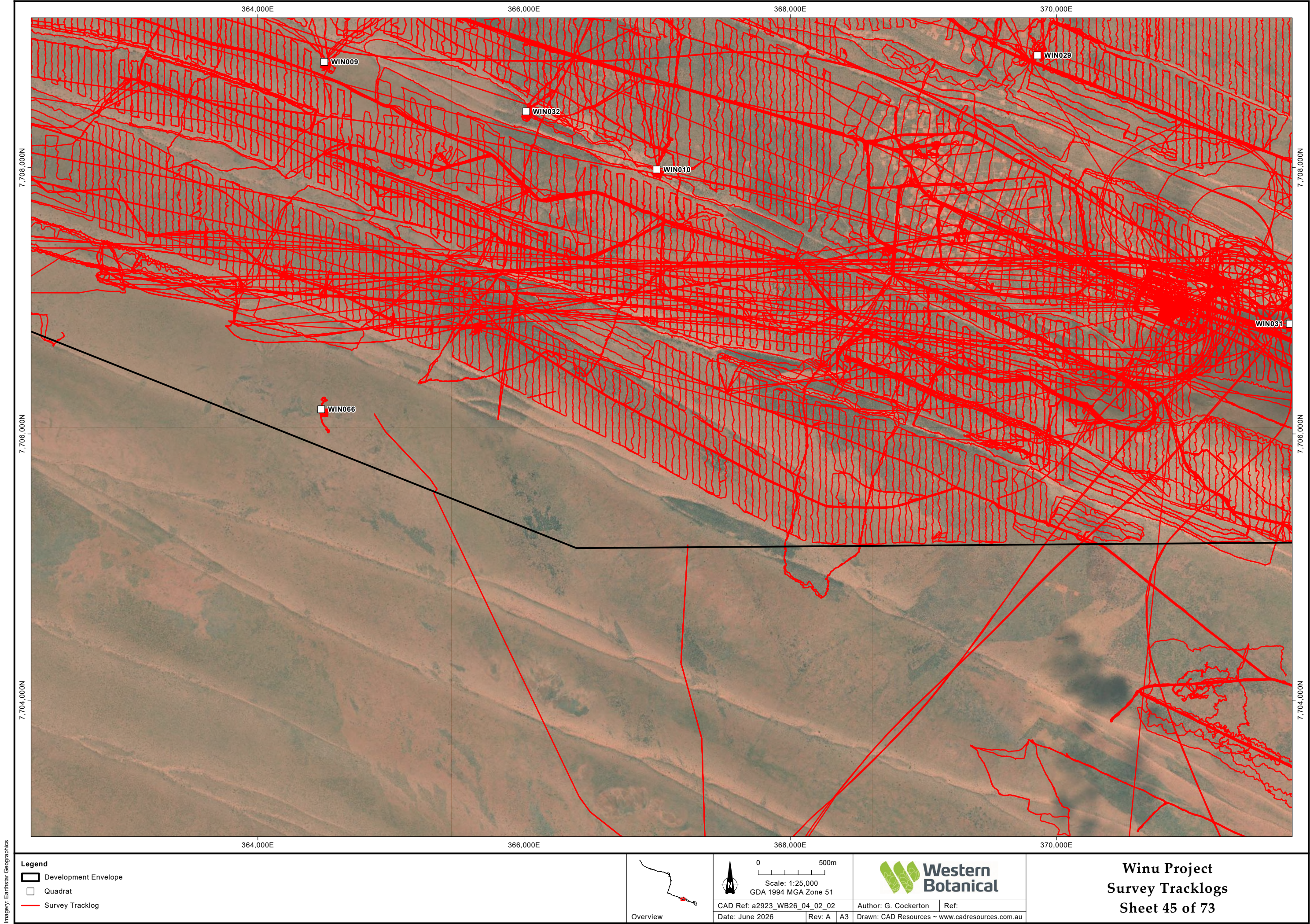
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Date: June 2026	Rev: A A3

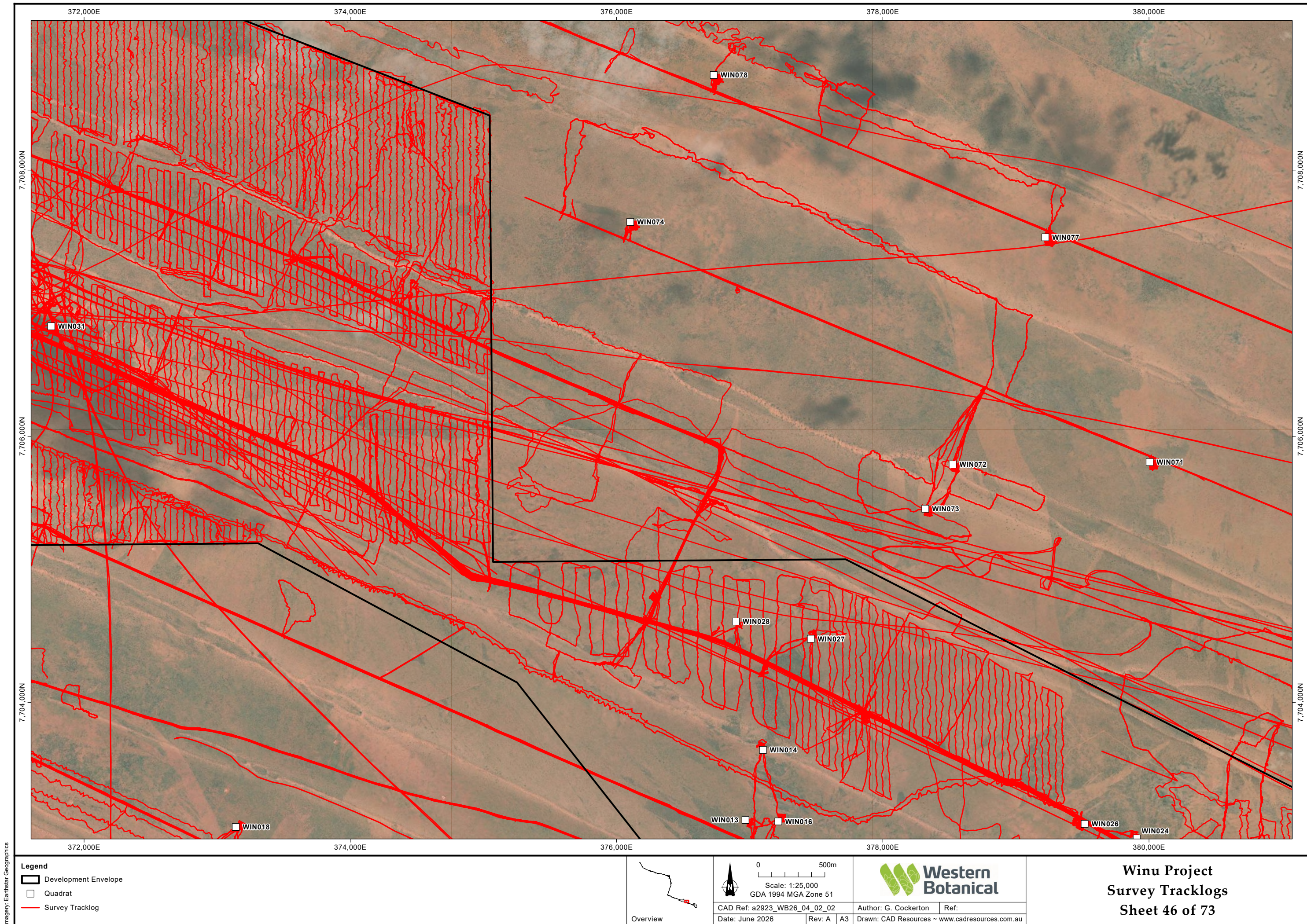
Western Botanical

Author: G. Cockerton	Ref:
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GDA 1994 MGA Zone 51

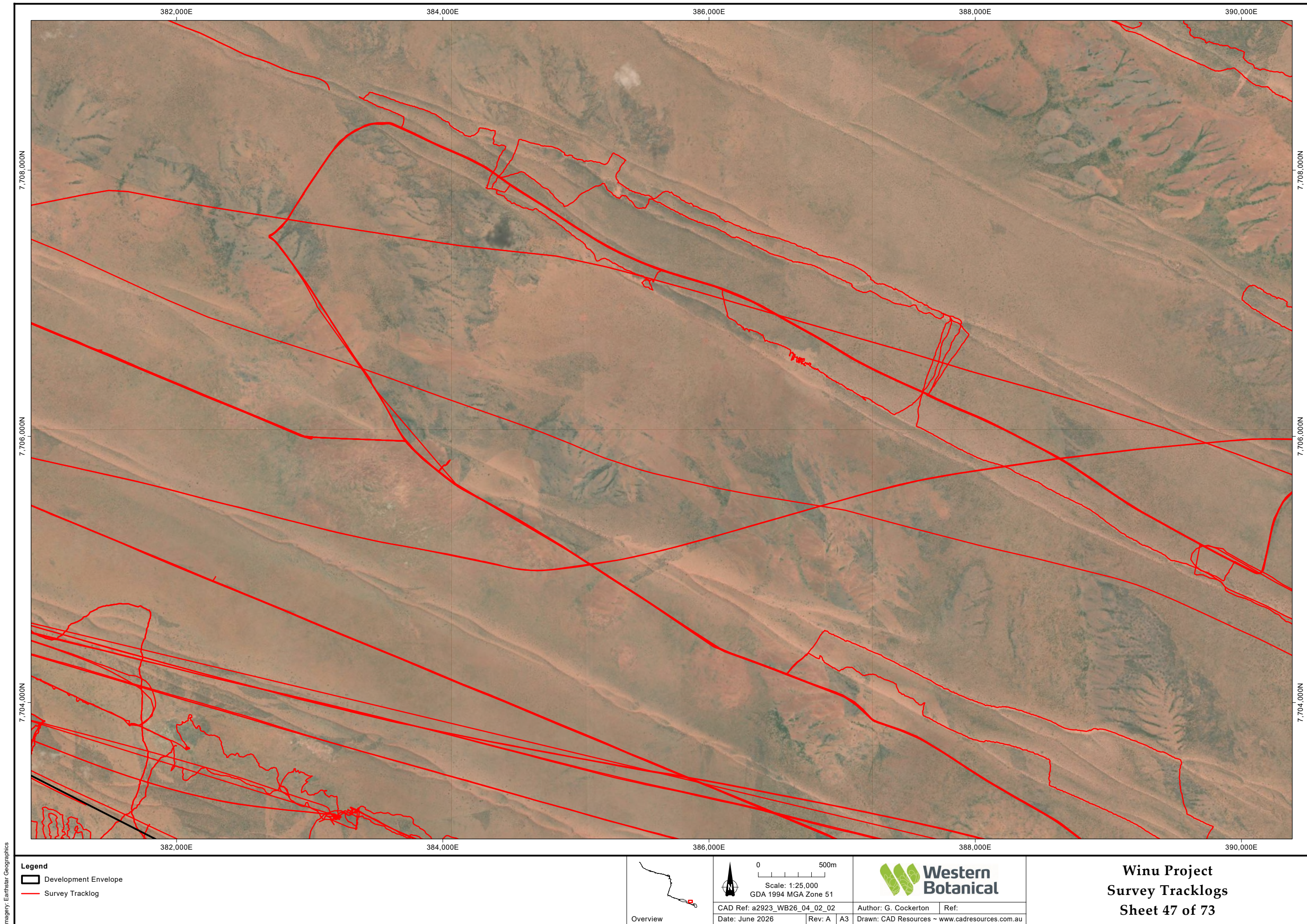
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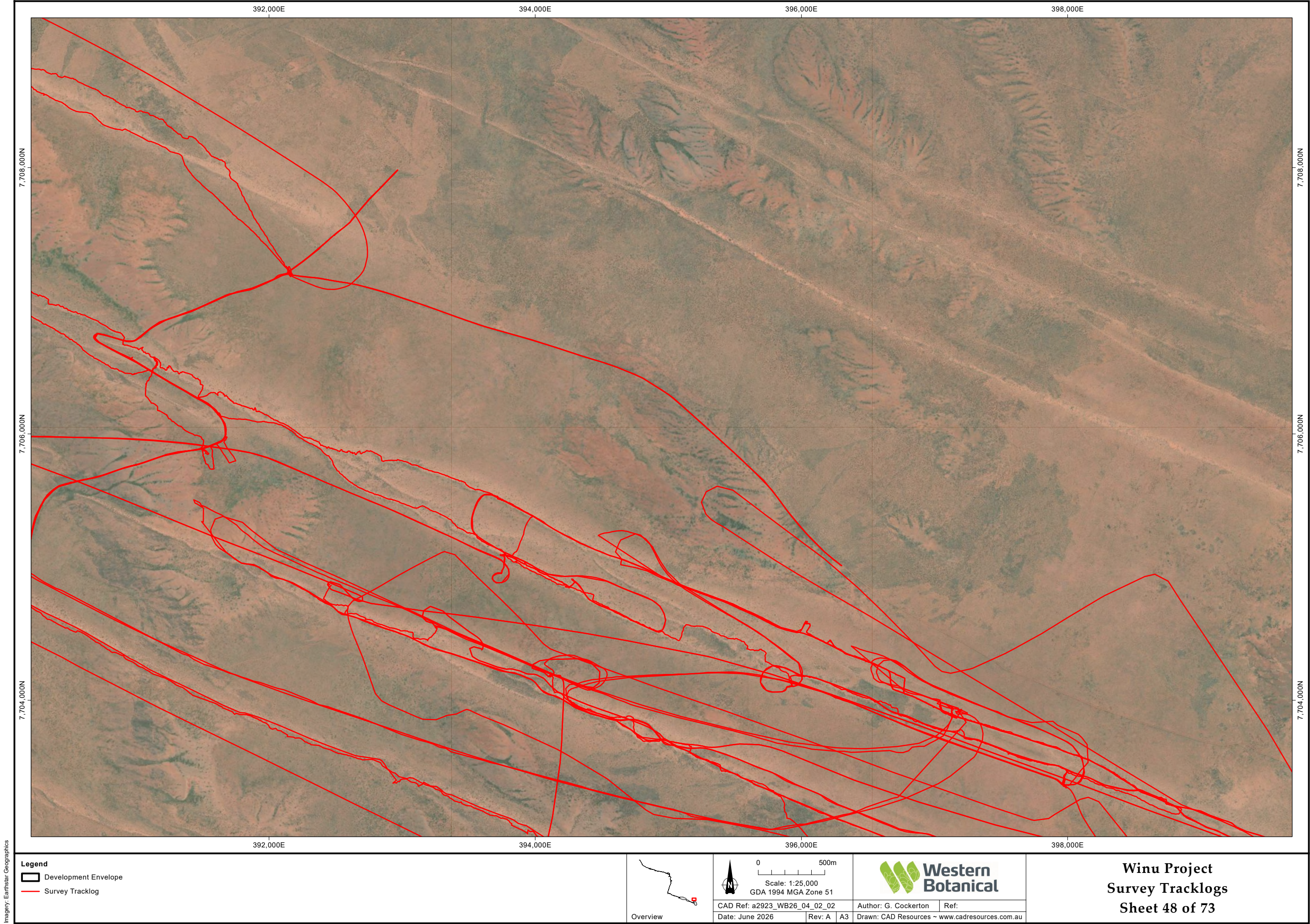
Rev: A A3

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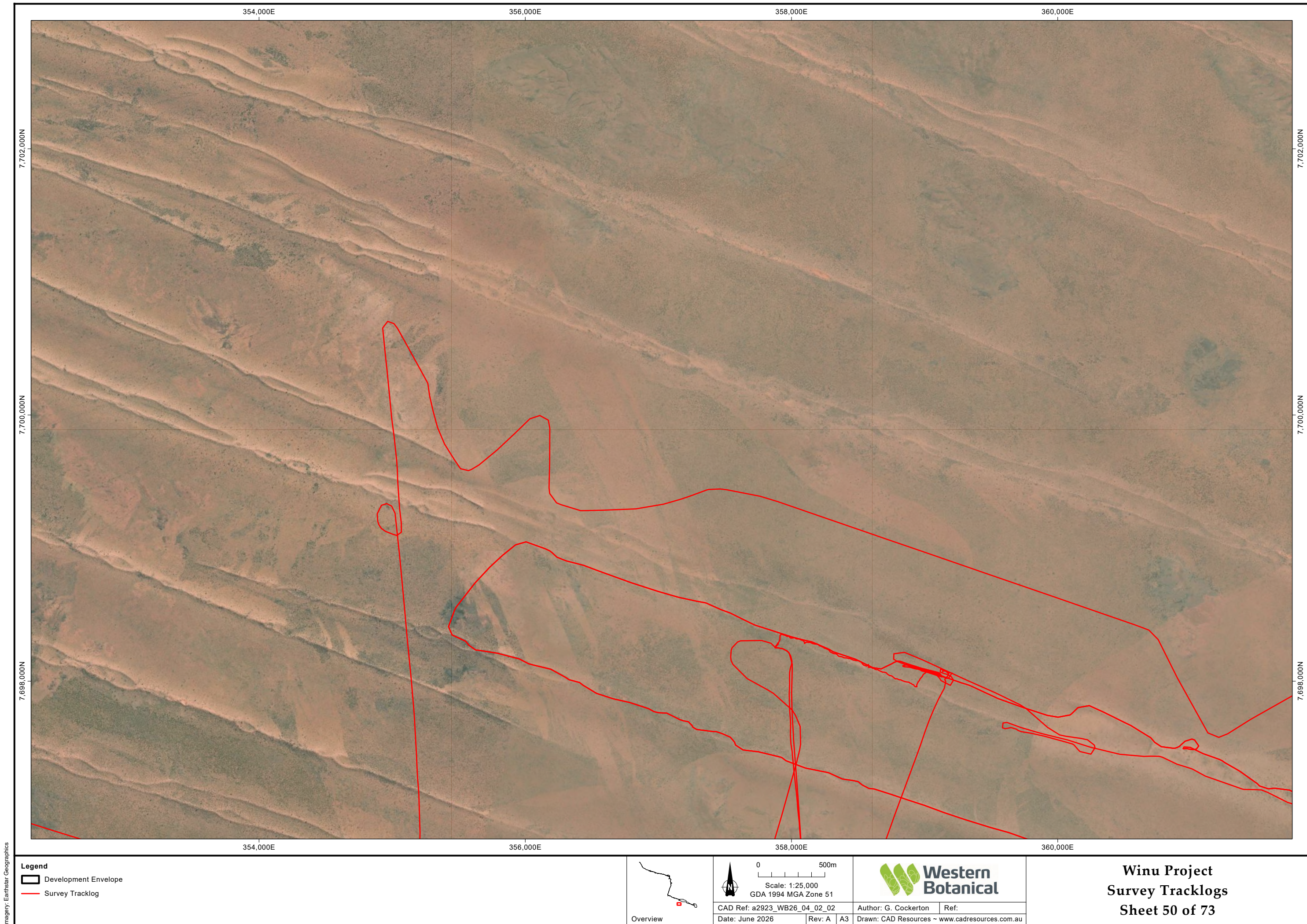
Author: G. Cockerton Ref:
Drawn: CAD Resources ~ www.cadresources.com.au

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Imagery: Earthstar Geographics

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- Development Envelope
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Overview

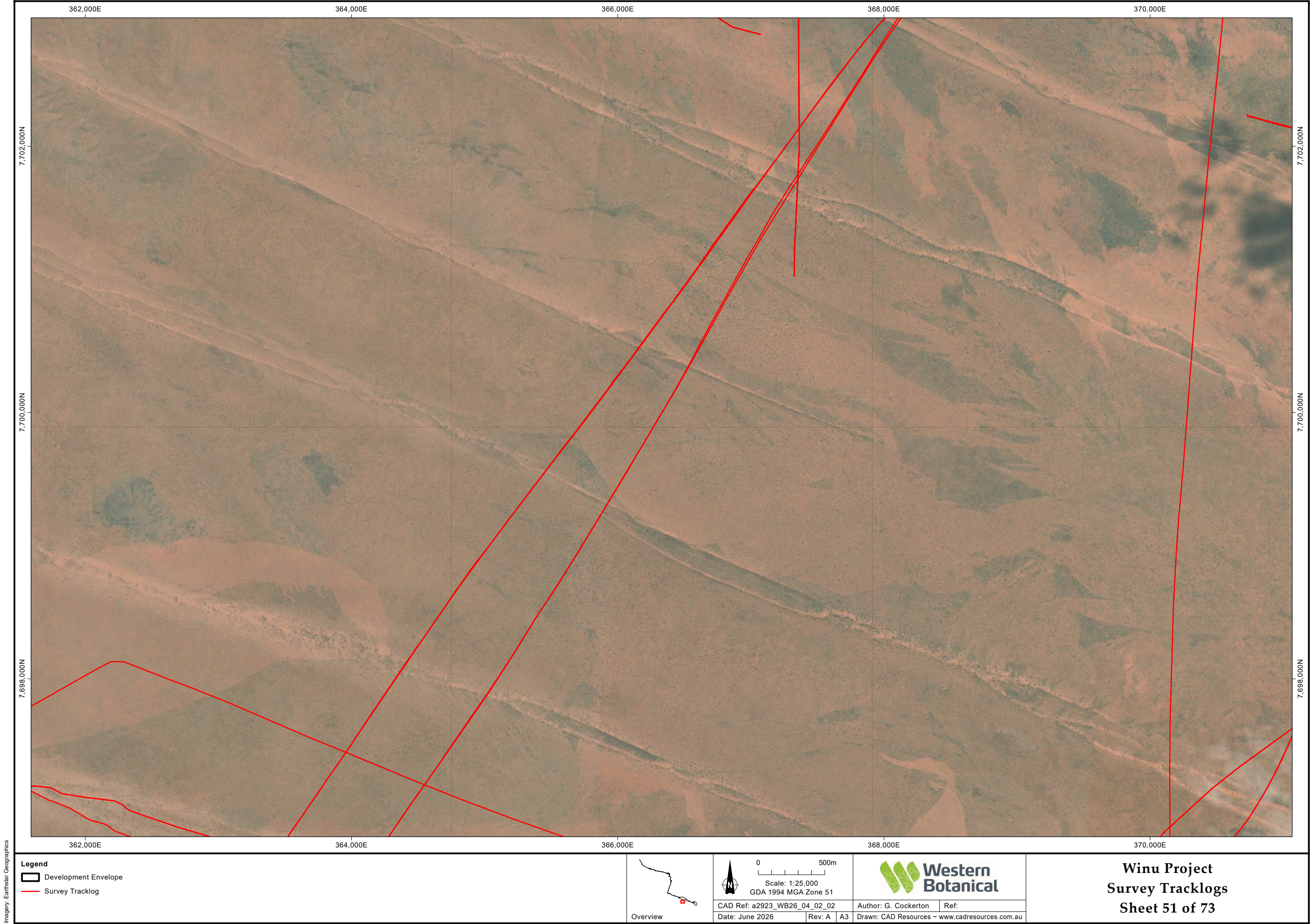
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GDA 1994 MGA Zone 51

CAD Ref: a2923_WB26_04_02_02		
Date: June 2026	Rev: A	A3

Western Botanical

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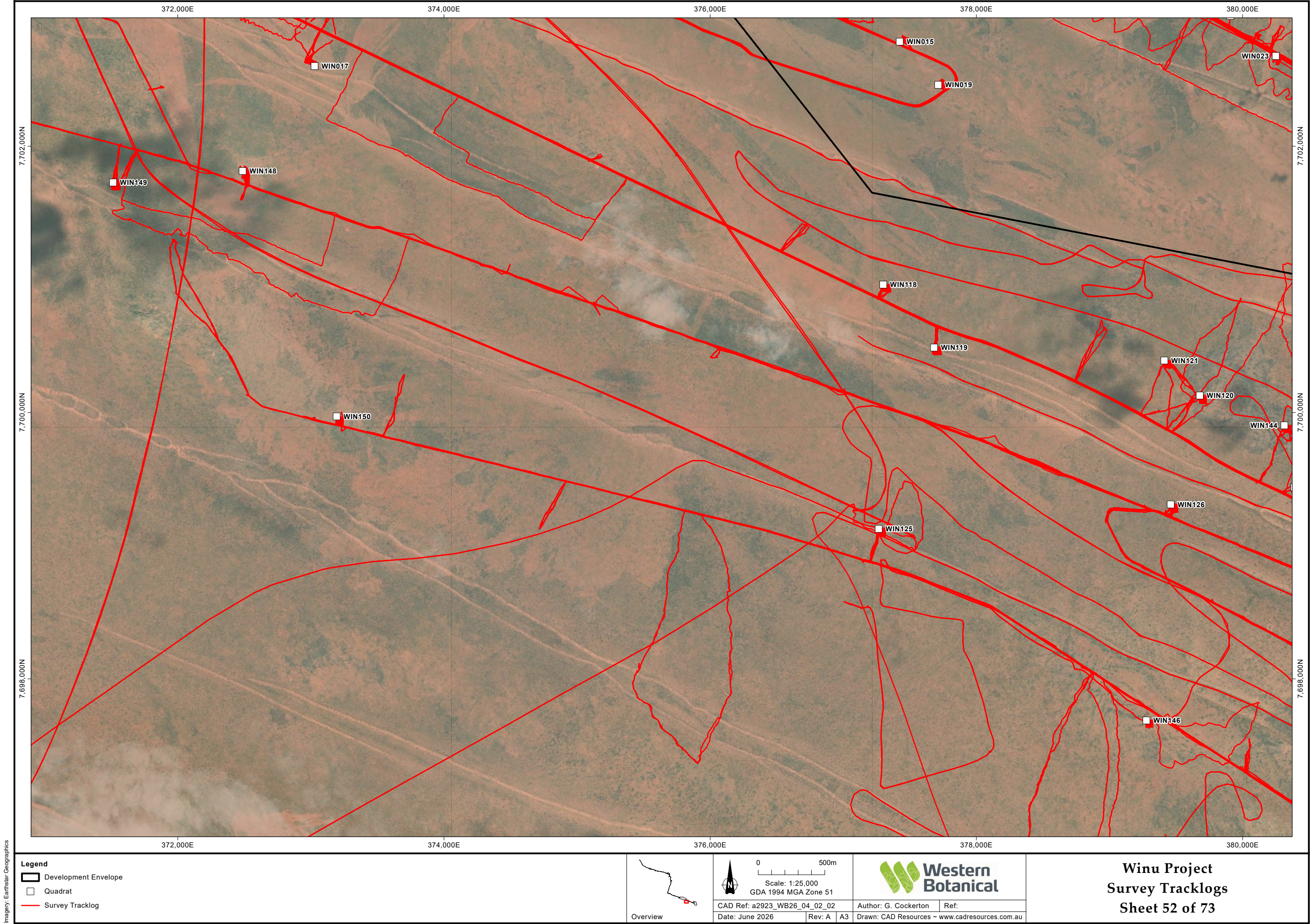
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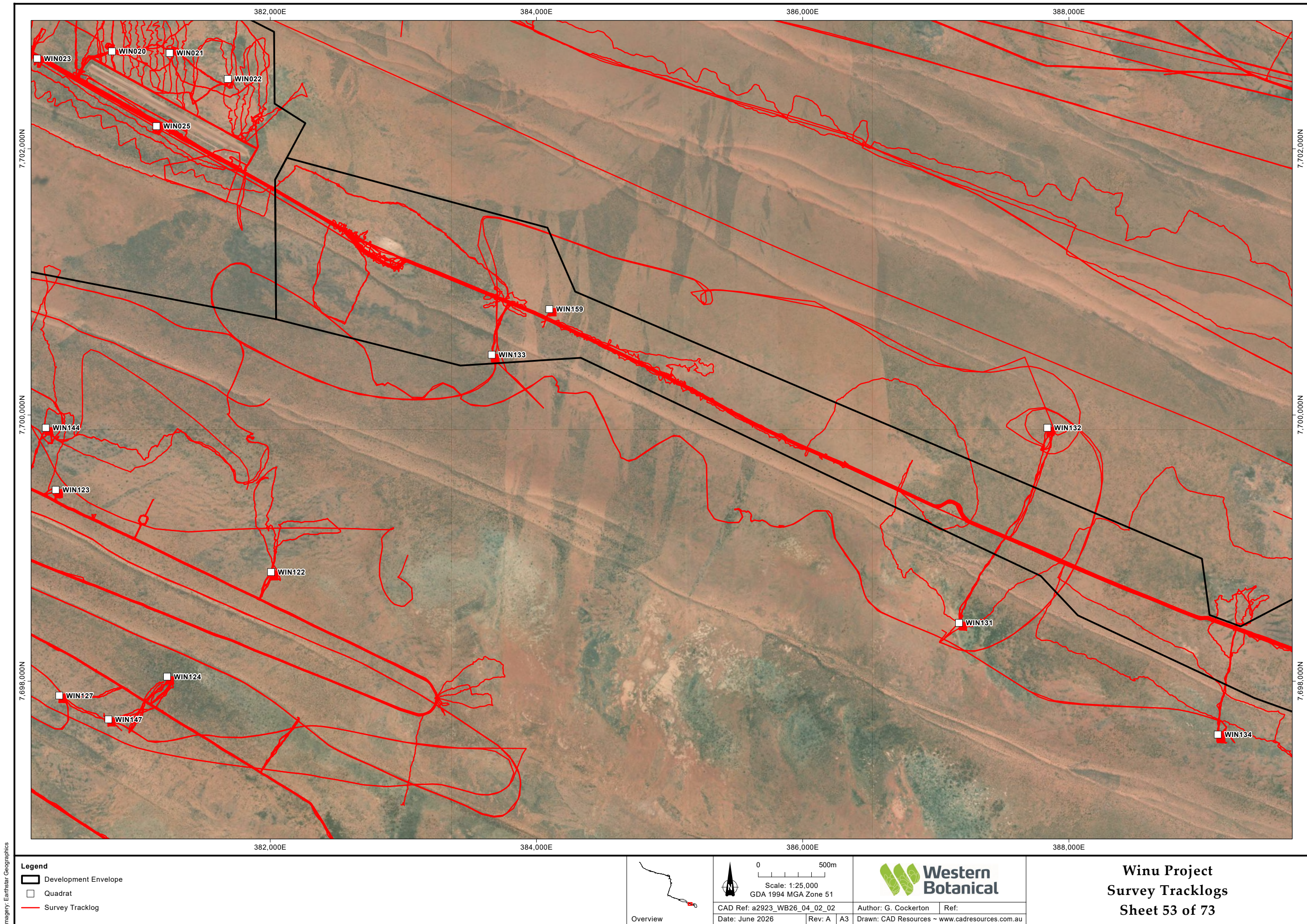
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Date: June 2026

 **Western Botanical**

Author: G. Cockerton Ref:
Drawn: CAD Resources ~ www.cadresources.com.au

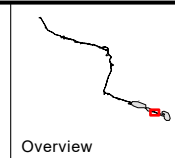
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Imagery: Earthstar Geographics

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- Development Envelope
 - Quadrat
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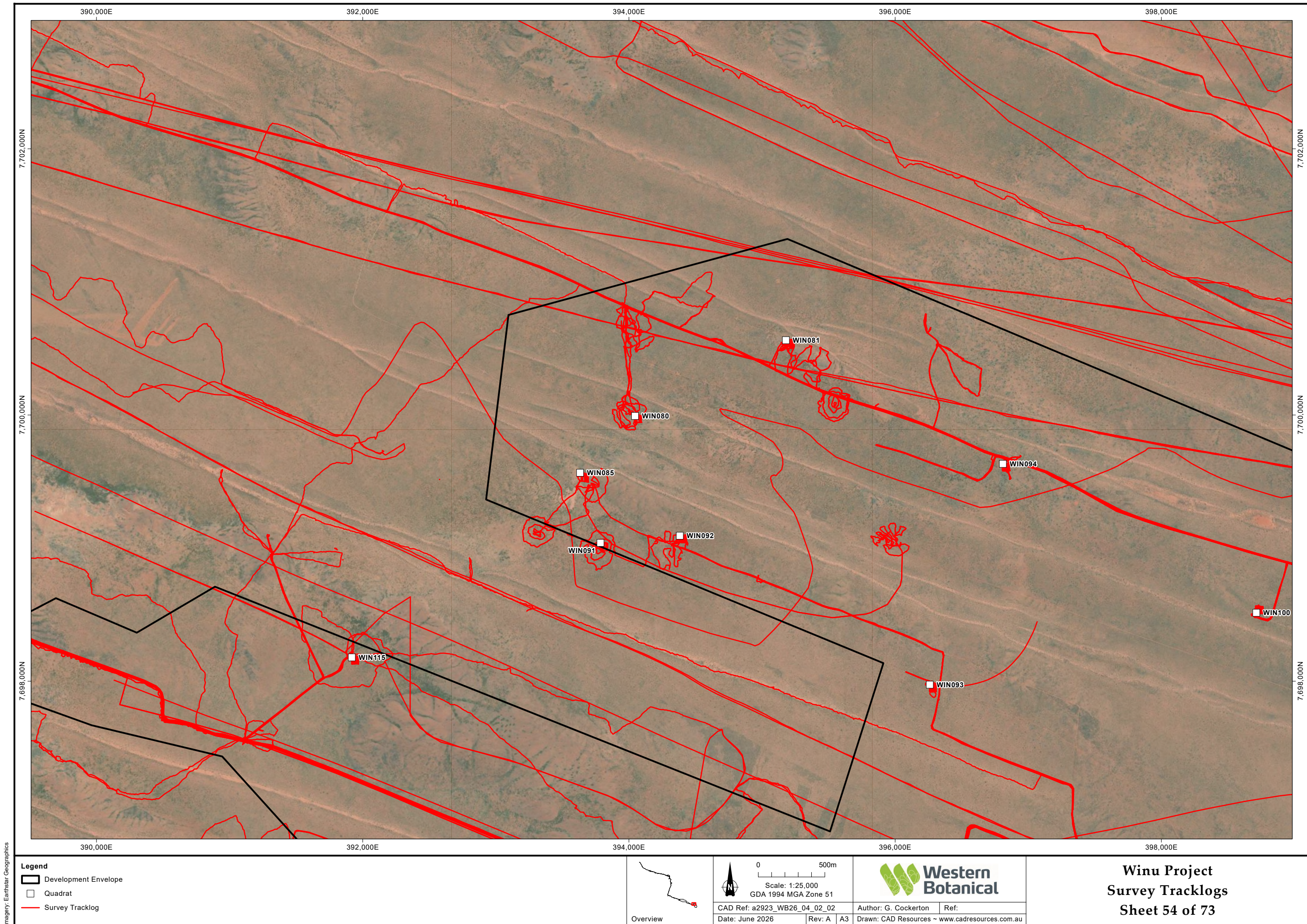
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Date: June 2026
Rev: A A3

Western Botanical

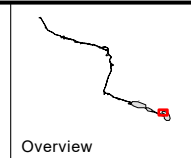
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Drawn: CAD Resources ~ www.cadresources.com.au

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Imagery: Earthstar Geographics

- Legend**
- Development Envelope
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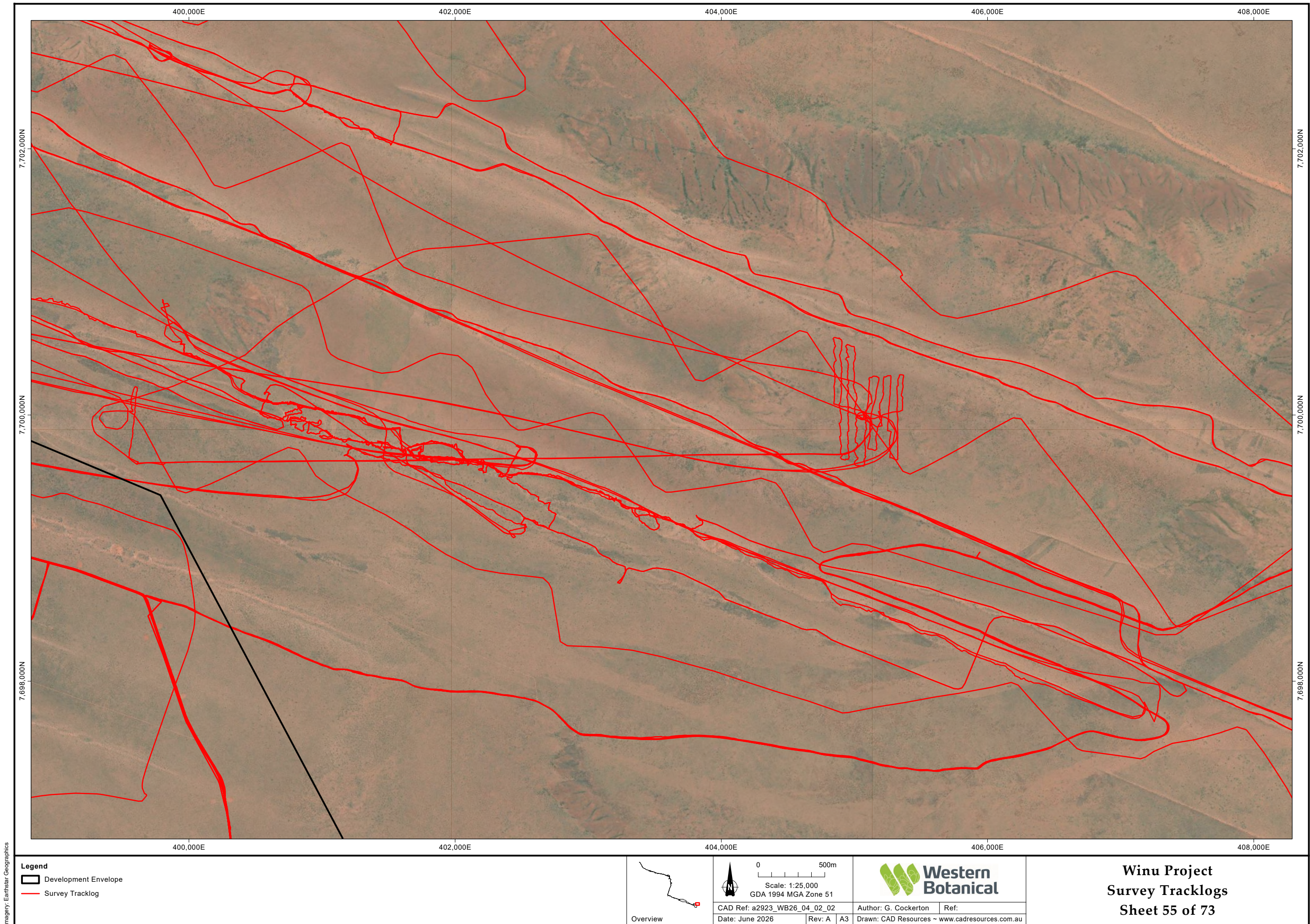
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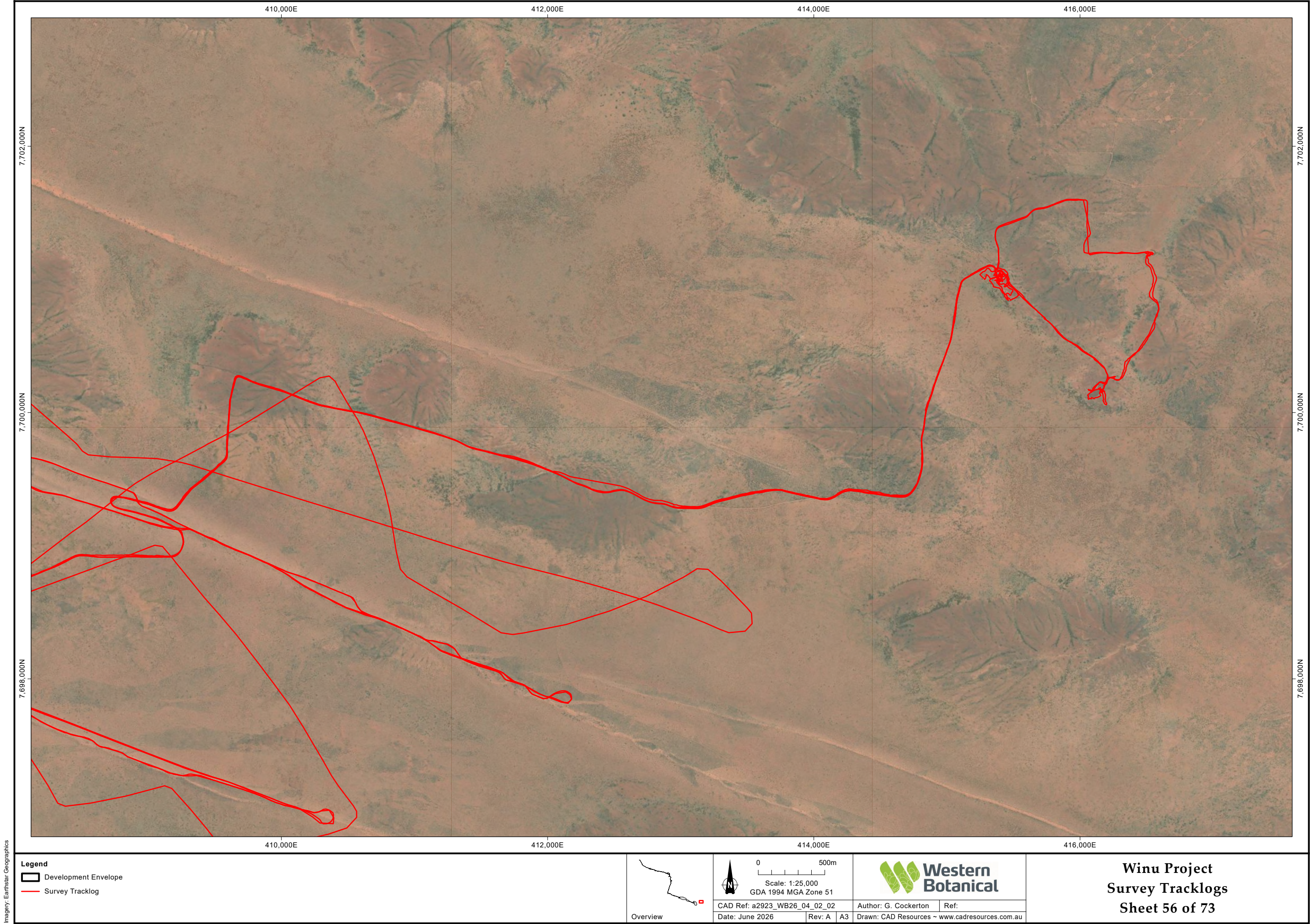
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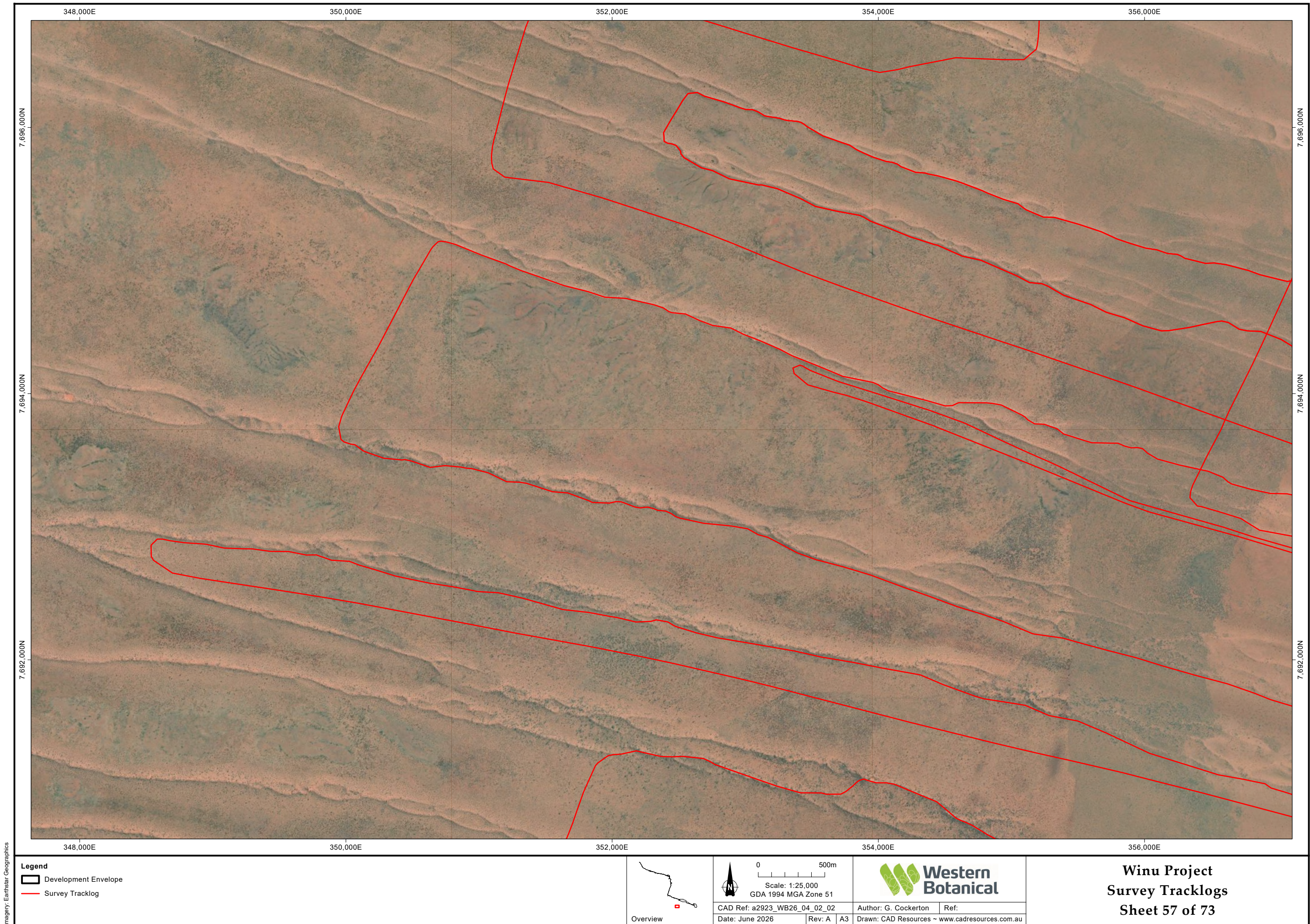
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Author: G. Cockerton Ref:
Drawn: CAD Resources ~ www.cadresources.com.au

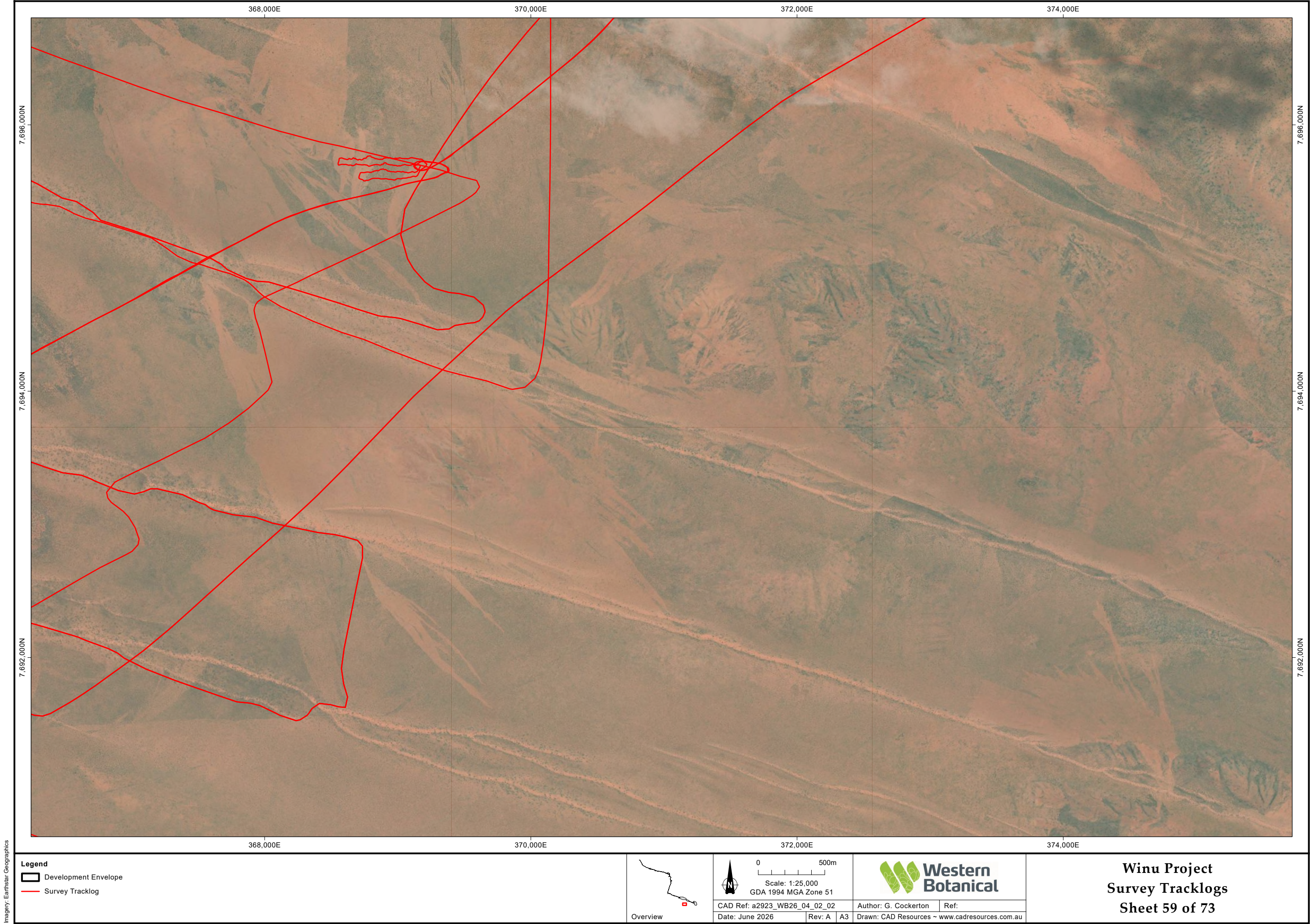
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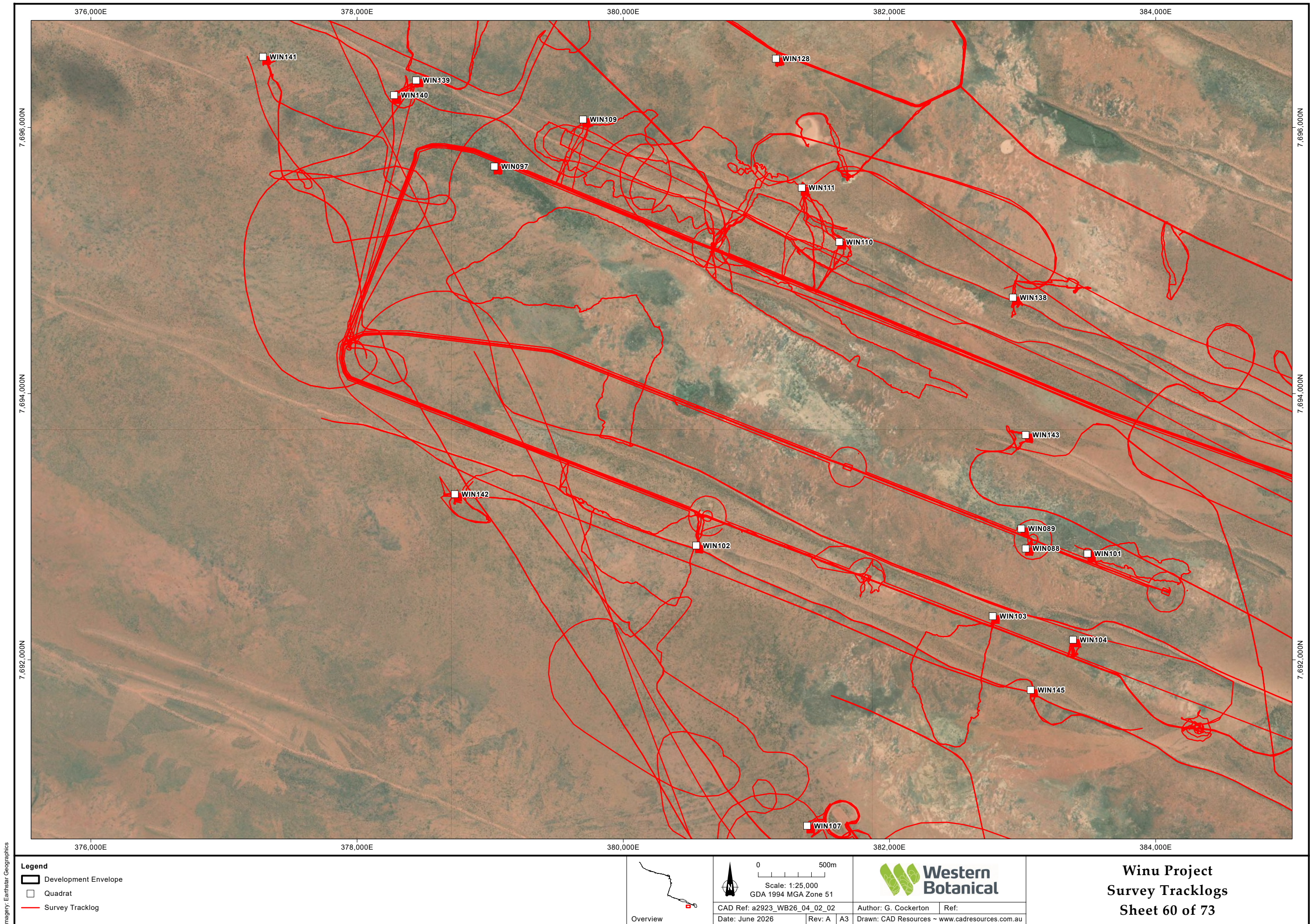


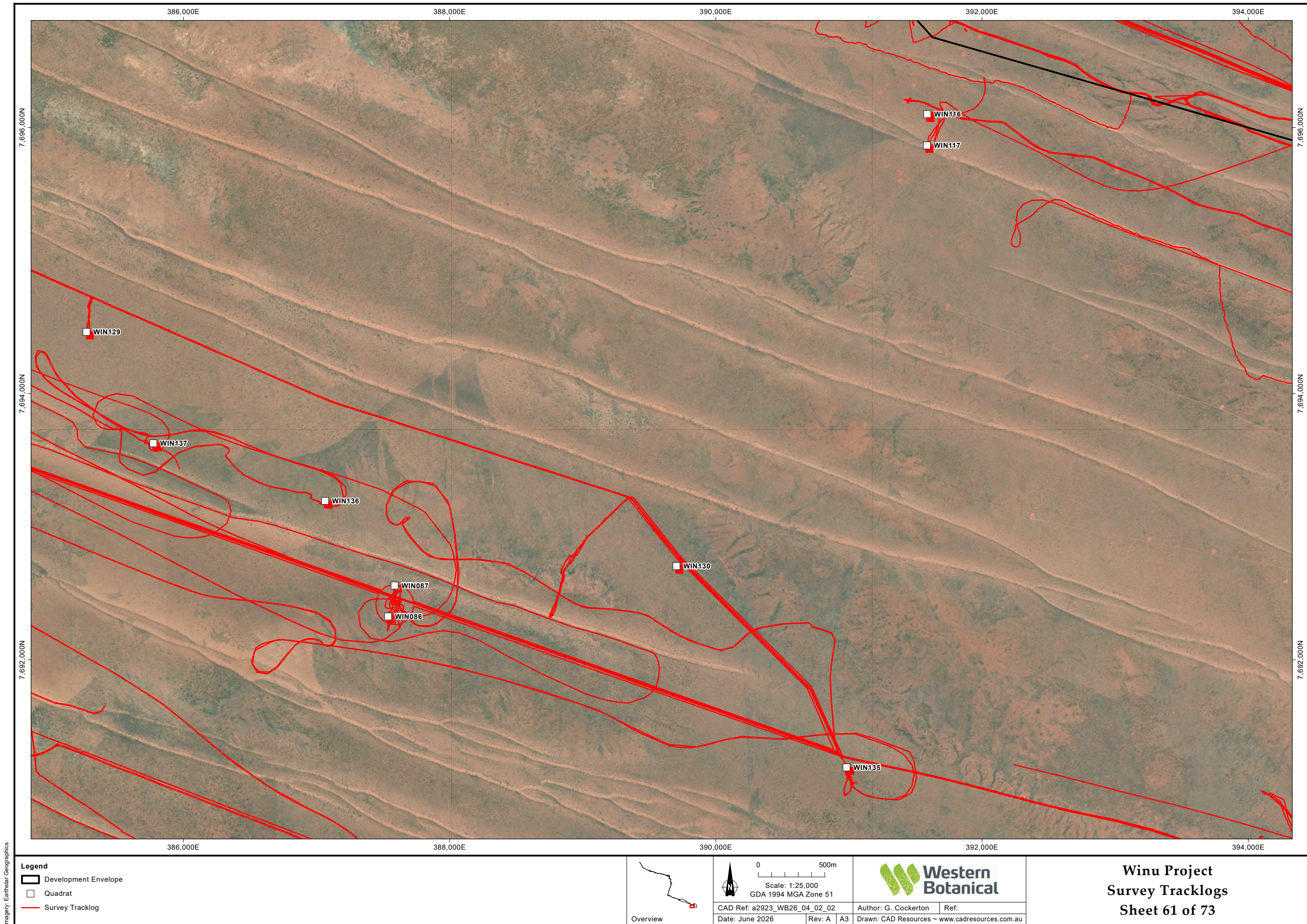






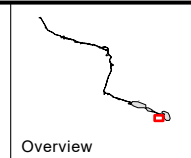






Imagery: Earthstar Geographics

- Legend**
- Development Envelope
 - Quadrat
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GDA 1994 MGA Zone 51

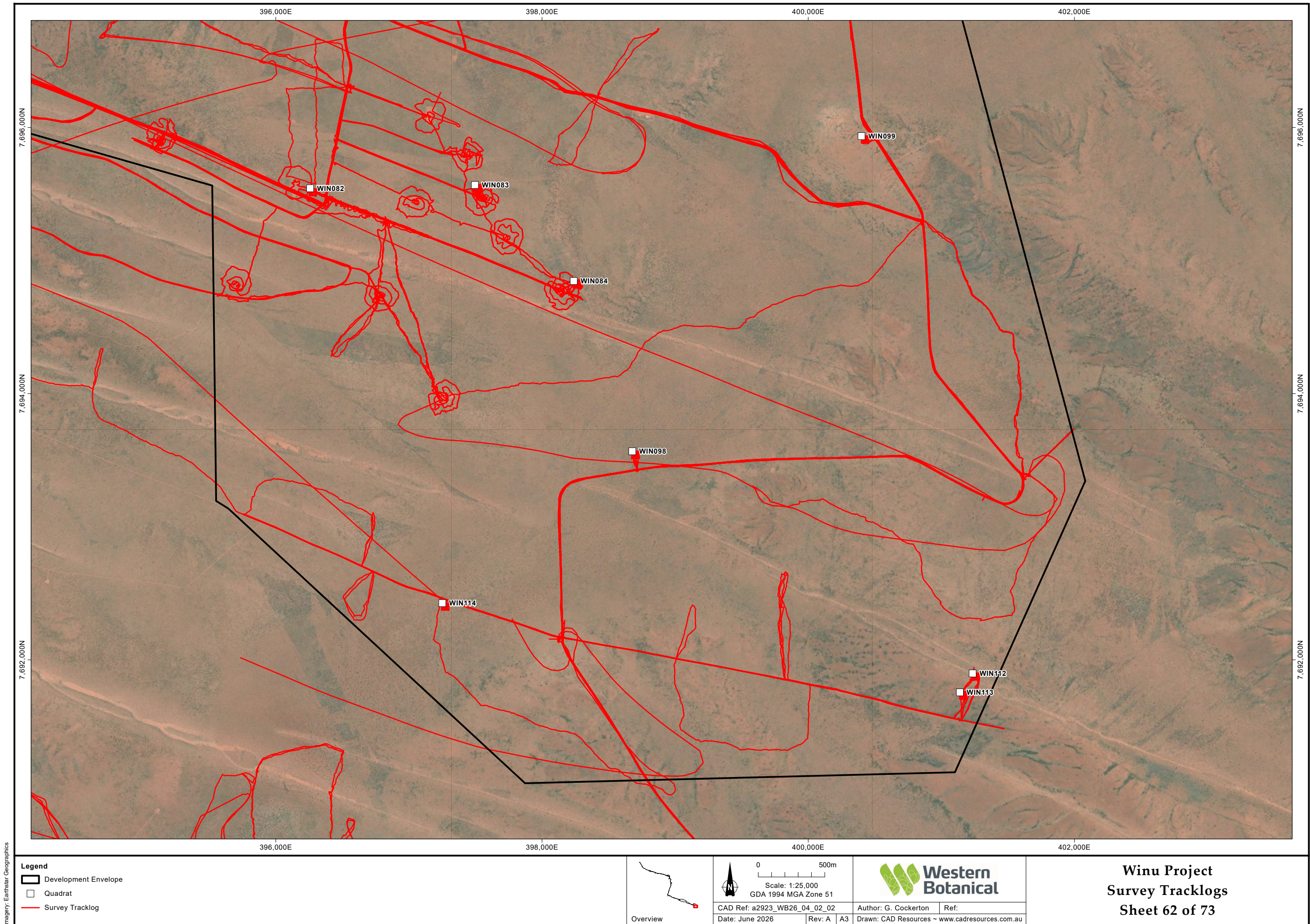
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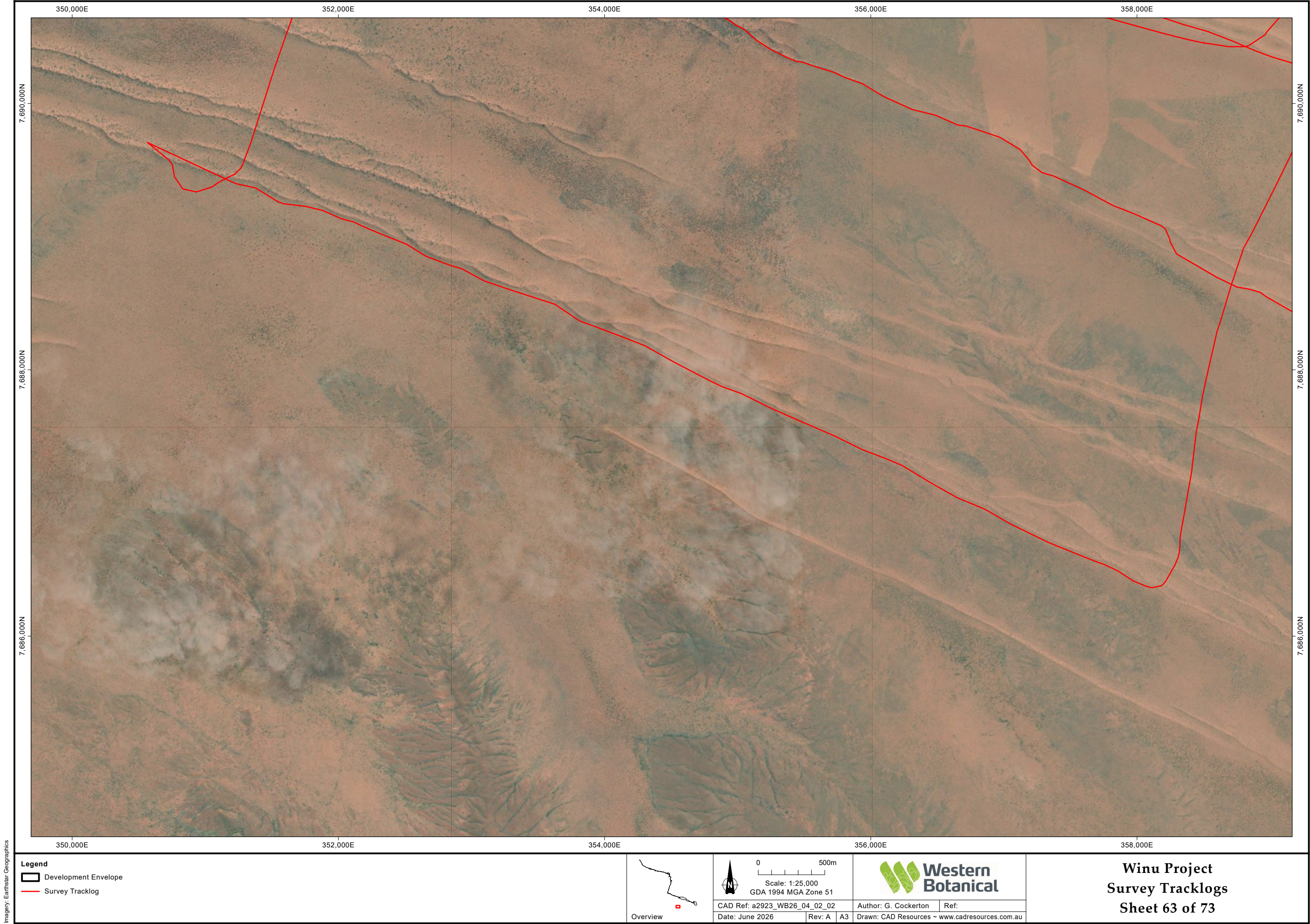
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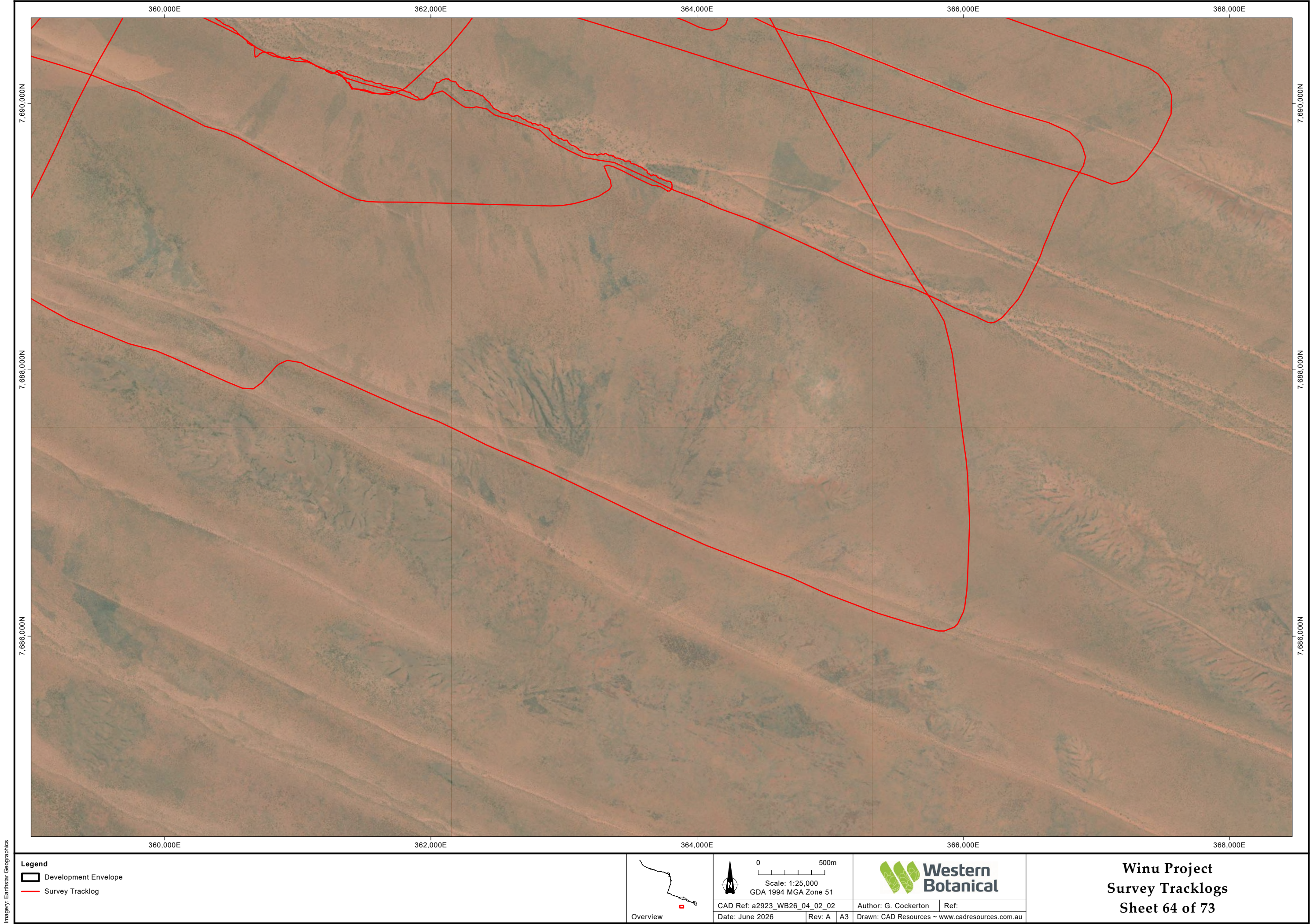
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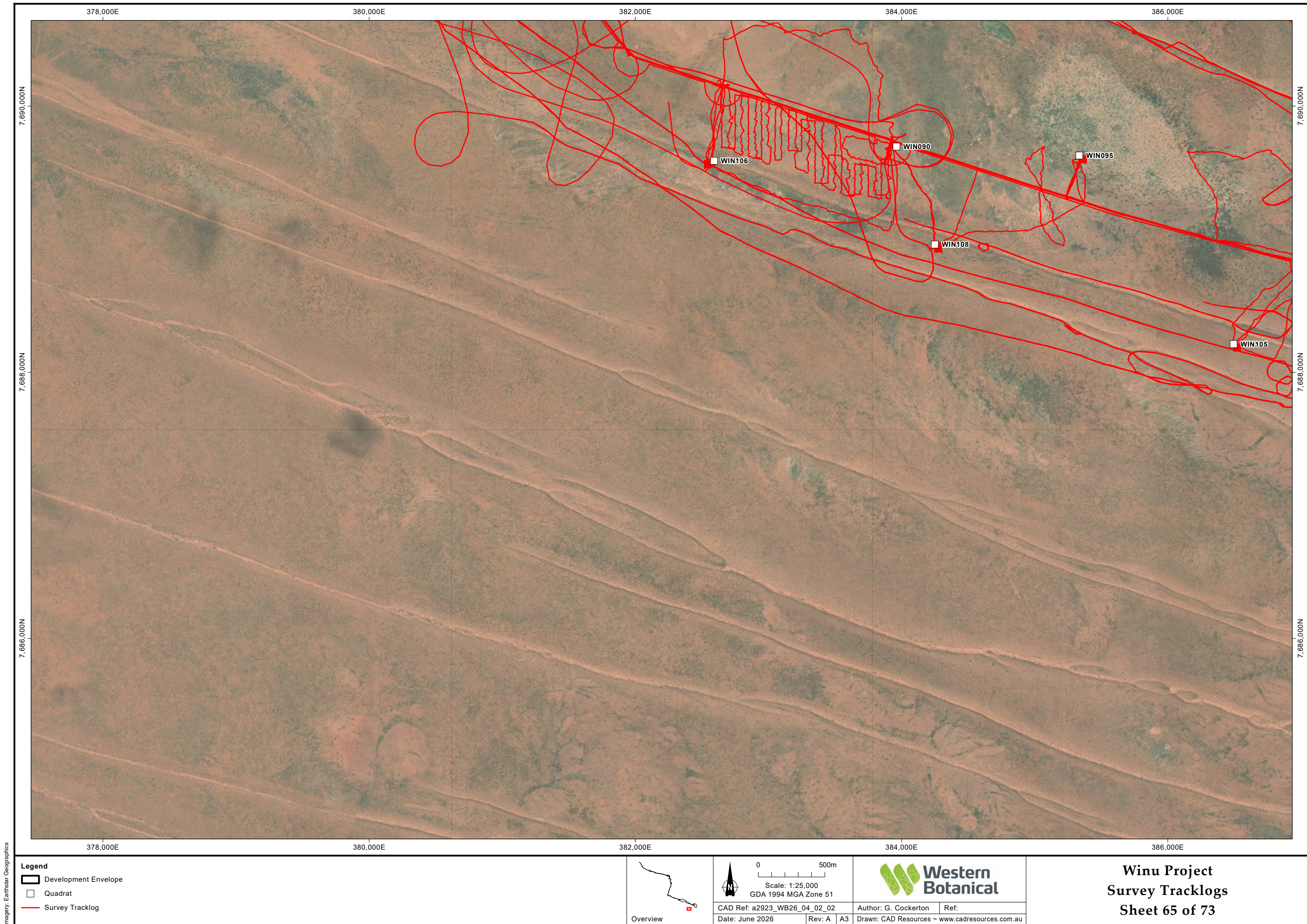
Author: G. Cockerton Ref:
Drawn: CAD Resources ~ www.cadresources.com.au

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Imagery: Earthstar Geographics

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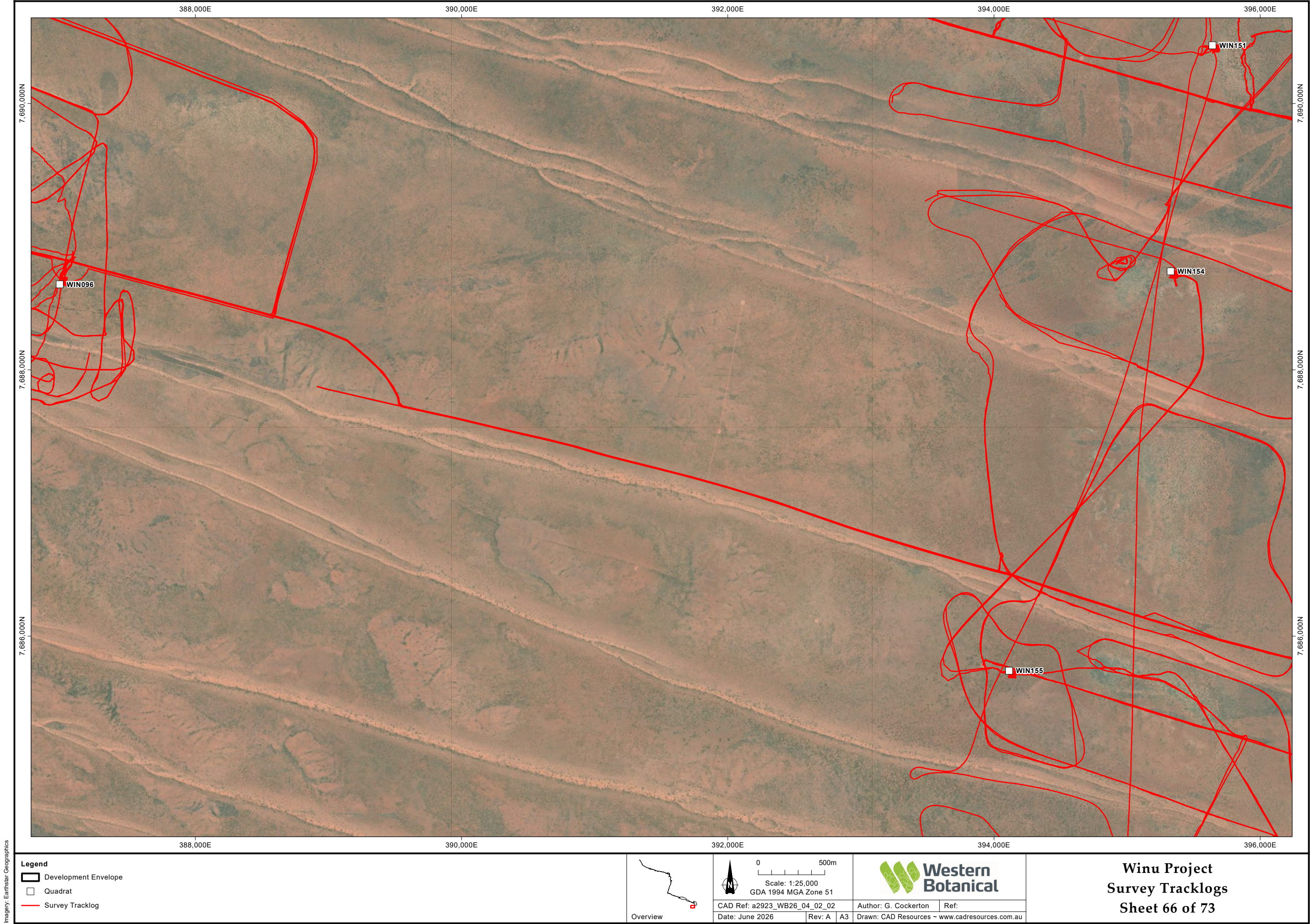
Overview

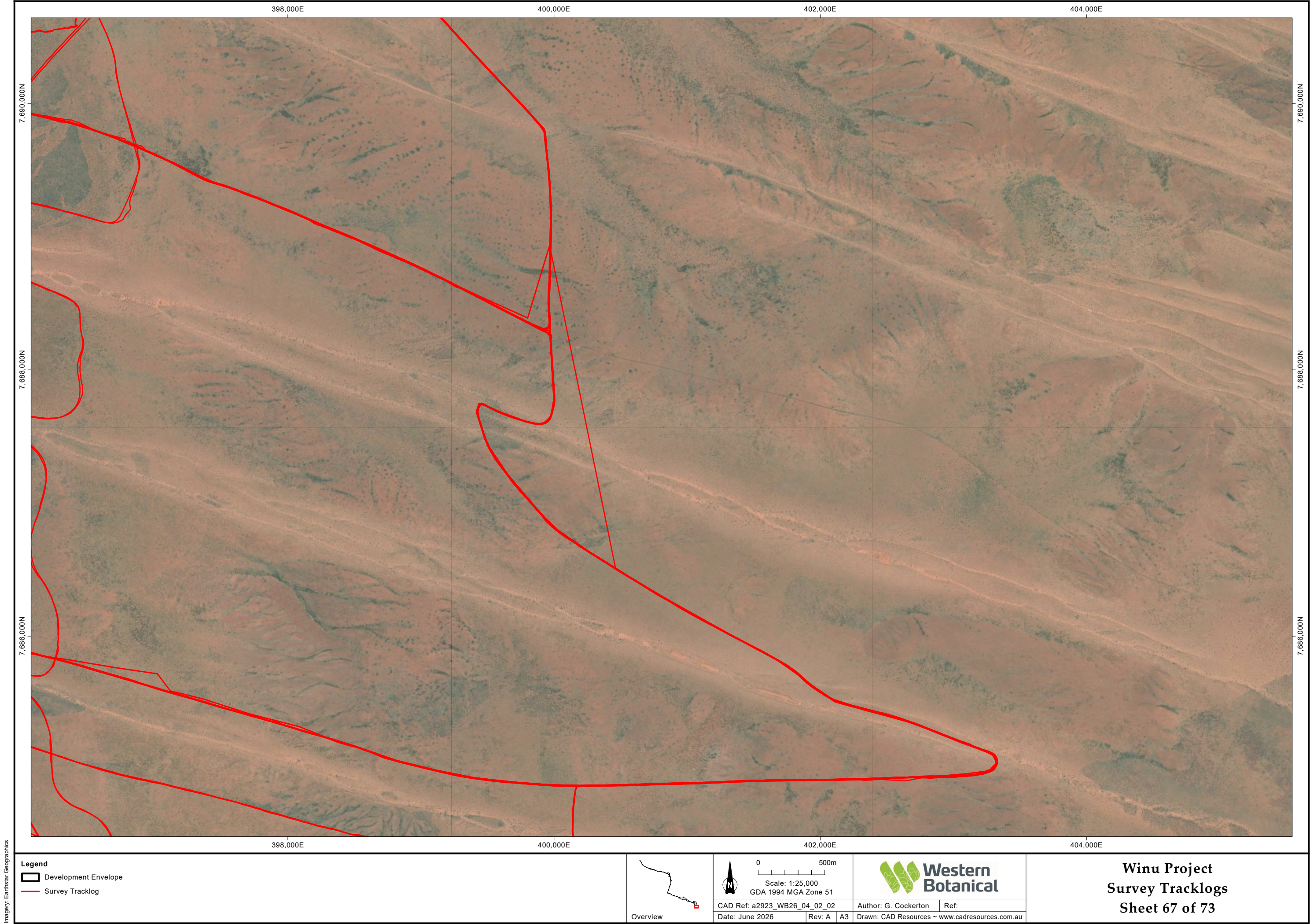
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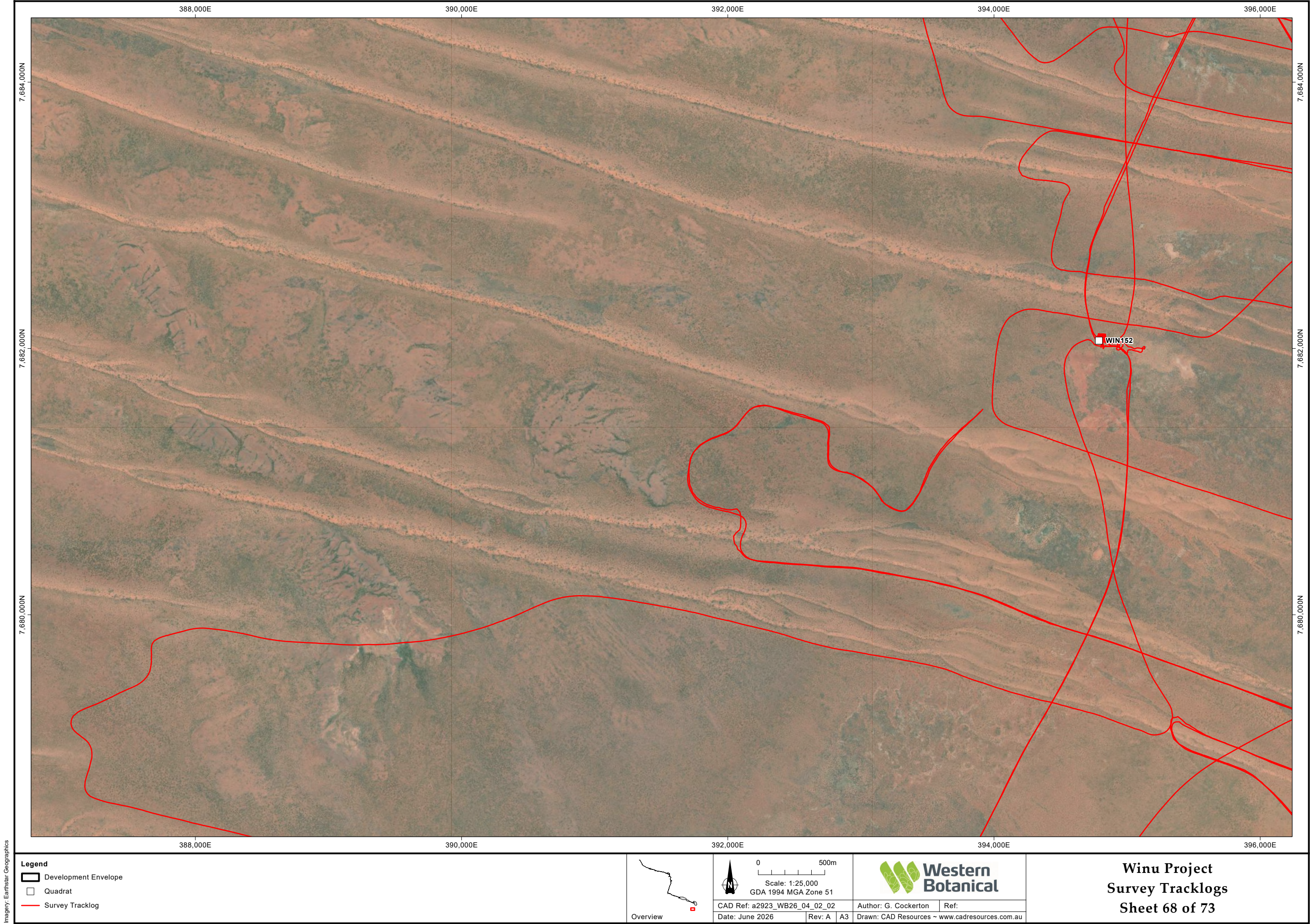
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Author: G. Cockerton Ref:
Drawn: CAD Resources ~ www.cadresources.com.au





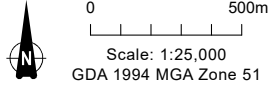


Imagery: Earthstar Geographics

- Legend**
- Development Envelope
 - Quadrat
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Overview



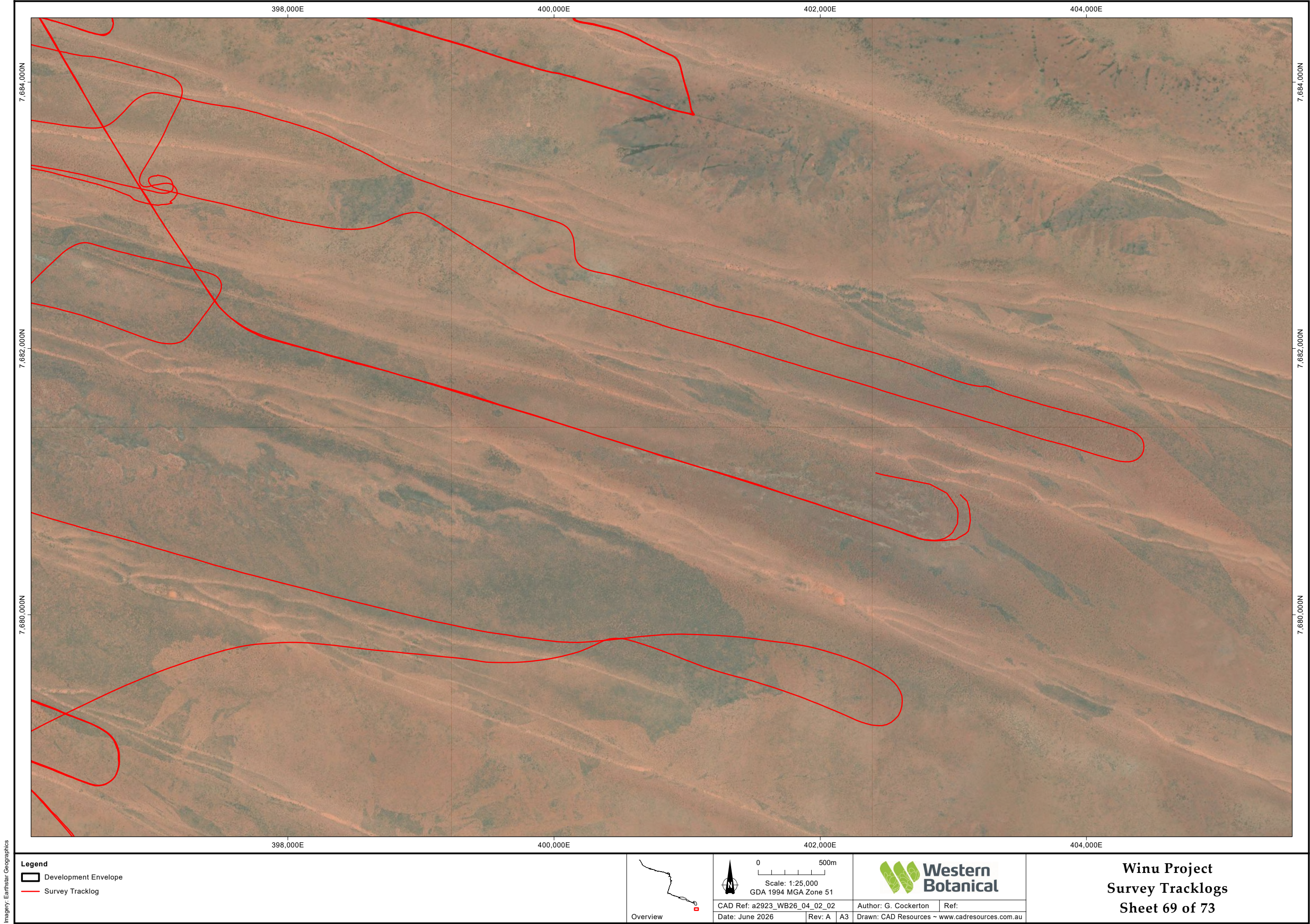
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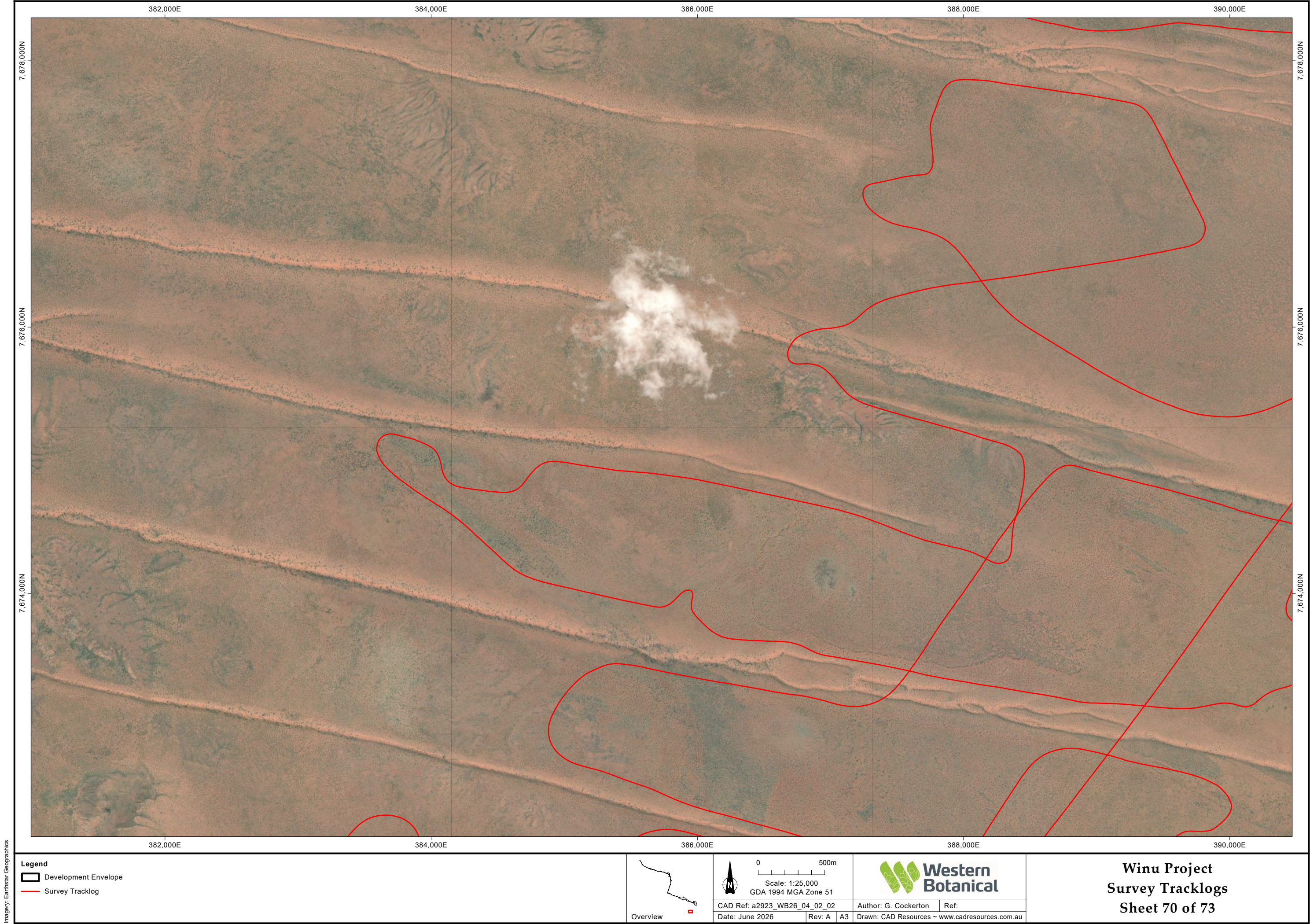
Rev: A A3



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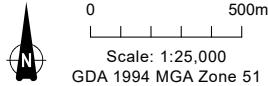


Imagery: Earthstar Geographics

- Legend**
- Development Envelope
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Overview



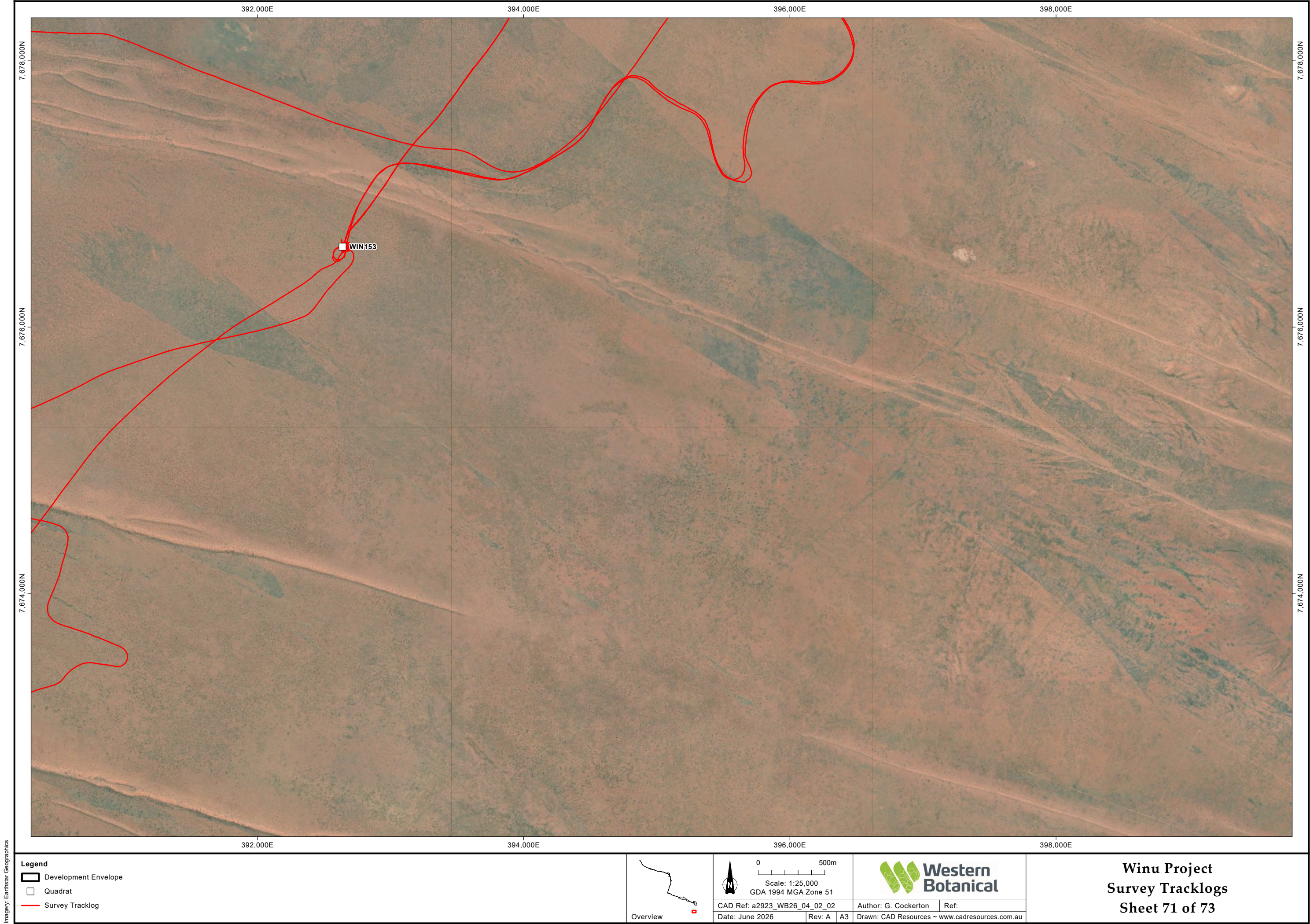
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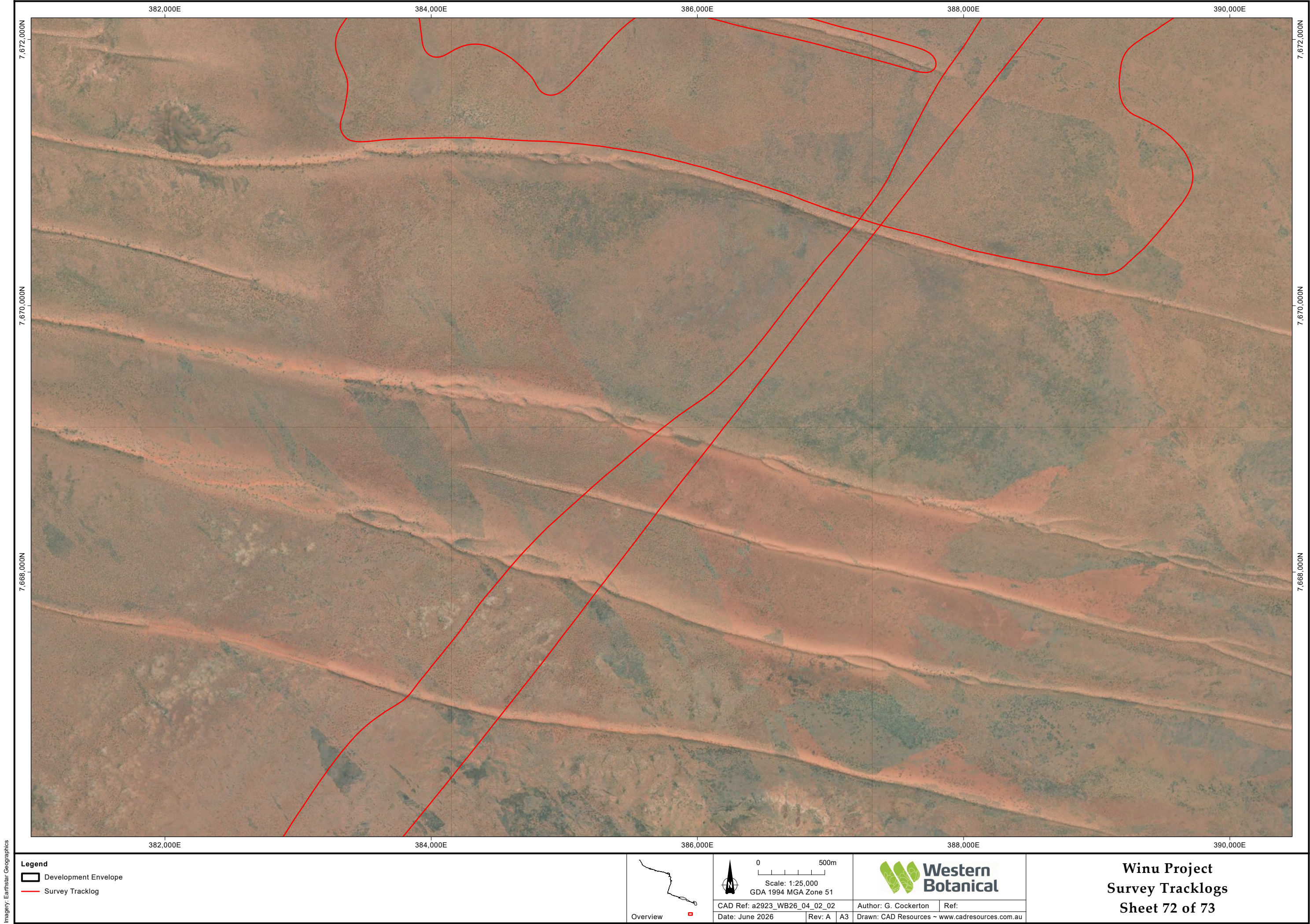
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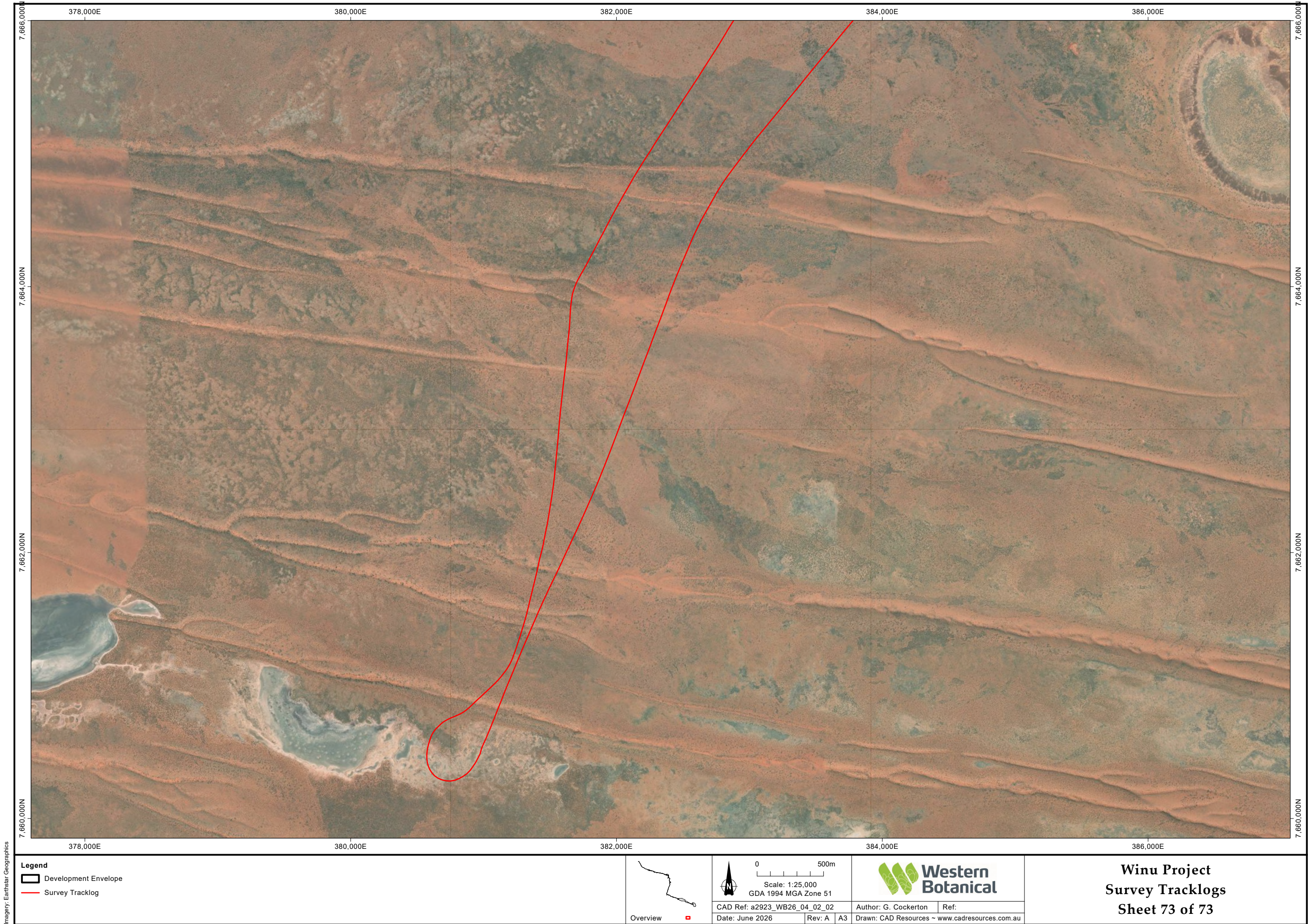


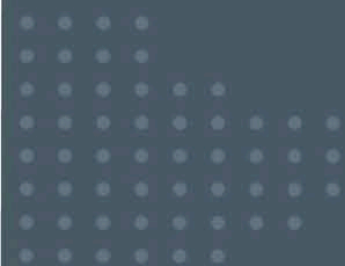
Author: G. Cockerton
Ref:
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