



mainroads
WESTERN AUSTRALIA

Revegetation Publication Report

SWR0089

*We're working for
Western Australia.*

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Amendments

Revision Number	Revision Date	Description of Key Changes	Section / Page No.
0	December 2020	Document Release	

1 PURPOSE

This Revegetation Publication Report provides additional information on SWR0089.

2 SCOPE

MRWA negotiated with Shire of Nannup to recover gravel from a portion of an existing gravel reserve managed under Licence by the Shire of Nannup. The site is located on Bird Road, 1.2km South of Stewart Road at 25.22 SLK (Kookaburra Road) within the Shire of Nannup.

As part of the Project MRWA has agreed to rehabilitate an 8 hectare portion of Bird Pit and a disused Shire gravel pit on Kookaburra Road, situated at the entrance to Bird Pit. MRWA has not recovered gravel from Kookaburra pit and has no historical legacy with Kookaburra road pit.

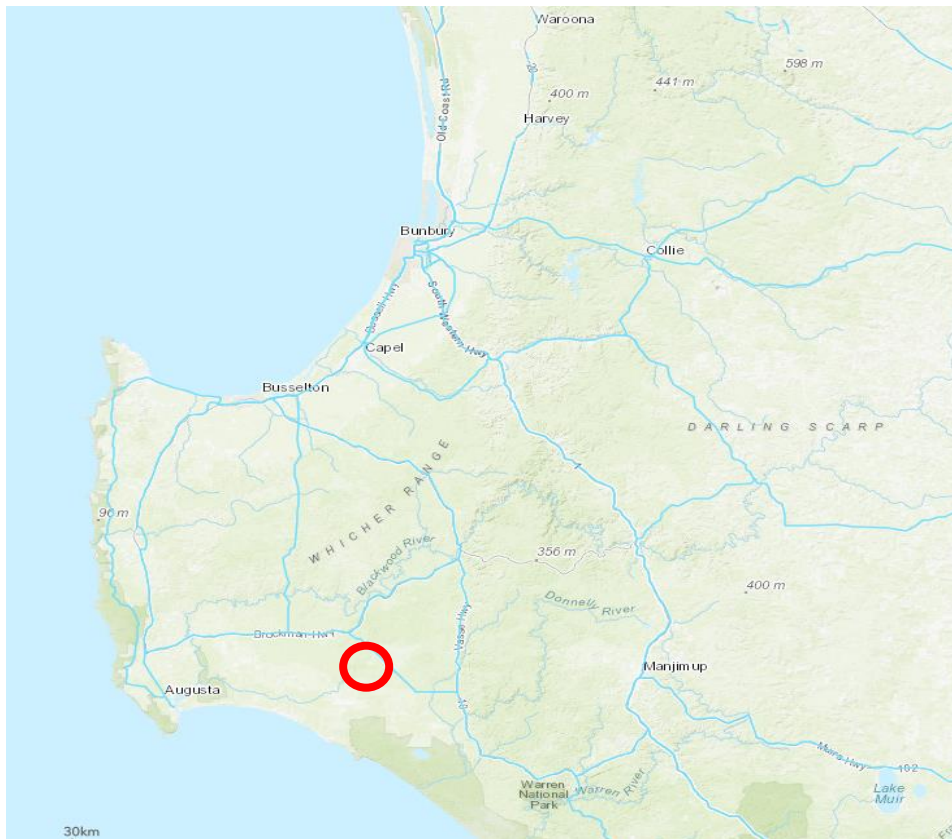
MRWA proposes to rehabilitate approximately 8.02Ha within Bird pit and approximately 2.91 Ha within Kookaburra Pit.

The objective of the Revegetation Strategy is to:

- Rehabilitate the Site with native vegetation species and achieve a sustainable environmental outcome supporting the values of the surrounding state forest.
- In the medium to long term rehabilitation works should assist in replacing habitat values lost through Project clearing for Carnaby's Black-Cockatoo, Baudin's Black-Cockatoo and Forest Red-tailed Black Cockatoo.
- Short-term rehabilitation should provide for the replacement of habitat values for ground dwelling fauna and edaphon.
- Achieve the Revegetation Completion criteria.

Main Roads Region	South West Region
Road Name	Stewart Road
Road Number	M080
Local Government	Shire of Nannup
Central GPS Coordinates	<ul style="list-style-type: none"> • Latitude (N): -34.0184852 • Longitude (E): 115.539195
Reference Number	SWR0089
Type of Method Undertaken	Revegetation
Area of Revegetation Undertaken	8.02ha
Year Revegetation Occurred	2015 - Ongoing
Brief description of Revegetation	
Species used	Refer to Appendix 1

3 SITE MAP



Locality: Bird Pit – Located off Stewart Road / Kookaburra Road.



**Extent of Rehabilitation Works. (Note: the southern portion of Bird Pit remains active)
The dieback-infected area is shown in yellow.**

4 SITE PHOTOS



Figure 1. Typical final pit floor level with topsoil windrowed near pit boundary.



Figure 2. Top soil spread over pit floor prior to deep ripping. Habitat logs and rock near pit boundary.



Figure 3. Contour banks used to control storm water run-off during pit preparation works.



Figure 4. Pit floor deep ripped to 800mm prior to direct seeding.



Figure 5. Dieback Infected Area 2018.



Figure 6: Dieback infected area 2019.



Figure 7. Bird Pit Sump Area East 2016.



Figure 8. Bird Pit Sump Area East 2018.



Figure 9. Bird Pit Sump Area East 2019.



Figure 7. Bird Pit Habitat Logs 2019.

5 ADDITIONAL INFORMATION

Criteria	Five Years after Vegetation Establishment (Year 5)
Species density	5,000 stems/ha
Species diversity	Minimum of five (5) native species per 10m x 10m quadrat
Structure	20 % upper storey 80% mid and understorey
Vegetation composition	Native species consistent with the attached species list
Weed coverage	Less than 10% weed cover
Potential cockatoo habitat trees	No less than 300/Ha Jarrah and Marri seedlings survive.

6 APPENDICES

Appendix	Title
Appendix 1	Species List
Appendix 2	Bird Pit Photos 2019

Appendix 1: Species list

Species	Common Name	Plant Form
<i>Acacia alata</i> var. <i>alata</i>	Winged Wattle	Shrub
<i>Acacia divergens</i>	-	Shrub, middle storey
<i>Acacia extensa</i>	Wiry Wattle	Shrub, middle storey
<i>Acacia myrtifolia</i>	Western Myrtle	Shrub
<i>Acacia puchella</i>	Prickly Moses	Shrub
<i>Agonis flexuosa</i>	Peppermint	Tree, middle storey
<i>Anigozanthos manglesii</i>	Kangaroo Paw	Clumping plant, understorey
<i>Baumea juncea</i>	Bare Twig Rush	Sedge
<i>Beaufortia sparsa</i>	Swamp Flameflower	Shrub
<i>Banksia grandis</i>	Bull Banksia	Tree, middle storey
<i>Bossiaea linophylla</i>	Golden Cascade	Shrub
<i>Bossiaea ornata</i>	Large flowered Bossiaea	Shrub
<i>Chorizema ilicifolium</i>		Shrub
<i>Clematis pubescens</i>		Groundcover
<i>Corymbia calophylla</i>	Marri	Tree, upper storey
<i>Dasypogon bromeliifolius</i>	Pineapple-leaved Dasypogon	Clumping, understorey
<i>Dasypogon hookeri</i>		Shrub
<i>Eucalyptus marginata</i>	Jarrah	Tree, upper storey
<i>Gompholobium capitatum</i>	Yellow-Cluster Pea	groundcover
<i>Hakea amplexicaulis</i>	Prickly Hakea	Shrub
<i>Hakea lissocarpa</i>	Prickly Hakea	Shrub
<i>Hardenbergia comptoniana</i>	Native Wisteria	Groundcover, climber
<i>Hovea chorizemifolia</i>	Holly-leaved Hovea	Shrub
<i>Hovea elliptica</i>	Karri Bush	Middle storey
<i>Hybanthus calycinus</i>	Native Violet	Shrub
<i>Hypocalymma cordifolium</i>	River Myrtle	Shrub
<i>Kennedia coccinea</i>	Coral Vine	Ground Cover
<i>Kunzea recurva</i>	-	Shrub
<i>Lepidosperma</i> sp	-	Clumping, herb
<i>Leucopogon</i> sp	Beard Heath	Low shrub
<i>Macrozamia reidleyi</i>	Zamia Palm	Clumping plant, understorey
<i>Melaleuca incana</i>	Grey Honey Myrtle	Shrub
<i>Melaleuca thymoides</i>		Shrub
<i>Mirbelia dilatata</i>	Mauve Prickle Pea	Tall shrub
<i>Patersonia occidentalis</i>	Purple Flag	Grass, groundcover
<i>Patersonia umbrosa</i>	Yellow Patersonia	Understorey
<i>Persoonia longifolia</i>	Snottygobble	Shrub
<i>Pimelia spectabilis</i>	Banjine	Shrub
<i>Podocarpus drouynianus</i>	Emu Plum	Tree, shrub
<i>Stylidium</i> sp	various Triggerplant	Low shrub
<i>Taxandria parviceps</i>	Fine Ti-tree	Shrub
<i>Tripterococcus brunonis</i>	-	Herb
<i>Xanthorrhoea gracilis</i>	Grass Boy	Shrub/ground cover
<i>Xanthorrhoea preissii</i>	Grass tree	Shrub/ground cover
<i>Xylomelum occidentale</i>	Woody Pear	Shrub

Appendix 2: Bird Pit Rehabilitation Photos 2019



Bird Pit – South West 2019



Bird Pit West 2019



Bird Pit East - Dieback Infected Area 2018



Bird Pit East- Dieback Infected area 2019



Bird Pit – East – Sump Area Habitat Log 2019