

HUON

Environmental Landscapes

Design • Construction • Maintenance • Restoration

LANDSCAPE DESIGN REPORT and PLANT LIST

FOR

ELF FARM SUPPLIES PTY LTD 108 MULGRAVE ROAD MULGRAVE 2756

PREPARED BY HUON DESIGNS RODNEY COX

JUNE 2016

Modified 30th July 2018

INTRODUCTION

The purpose of this brief report is to outline the landscape design and environmental principles adopted for the native revegetation of the tree corridor at the above site. This report refers to the attached plan:

- Ripoarian Zone and Native Revegetation Design Plan, Drawing No RT 618/B dated 25th July 2018.

This report and plan has been prepared by Rodney Cox of Huon Designs. The extent of the completed works includes the native revegetation and tree corridor to the west of West Dam and the on-going monitoring and maintenance of this revegetation

EXISTING SITE CONDITIONS

As seen on the attached Design Plan, much of the works are already in existence or recently completed. Existing revegetation has shown to be very well established and current maintenance practices are sufficient to maintain the health of this recreated plant community. At the same time it is fulfilling its intended purpose of screening the site from the surrounding areas. (as per previous Council and Department approvals).

During my initial inspection of the site in February 2016 it was noted what a positive environmental and engineering impact could be made by planting the steep batter to the east of the West Dam. Not only has this created an effective screen and buffer to the site but it has also helped to stabilize the embankment. At the suggestion of myself some more recent plantings were installed to the west of the dam (subject to retrospective approval) as part of the proposed development and the ongoing revegetation of the site. These plantings (primarily of riparian zone tree species and shrubs) are showing good health and strong growth. A good supply of water on site has helped to establish the new plantings.

Due to the advantageous growing conditions, weeds are a problem and continue to require a high level of maintenance, particularly of annuals. A maintenance schedule is outlined below.

The ponds, dam and paddock disposal are performing well in handling storm water. The regular harvesting of reeds and grasses from the dam verges is successfully controlling the nutrient levels. The use of the pasture paddock to the north west also provides an effective use of stormwater and high nutrient process water through the controlled release into furrows as per existing EPA Licence.

LANDSCAPE DESIGN PRINCIPLES

The proposed development has included the expansion of the buildings and facilities to produce mushroom composts. The existing buildings are not well screened to the west so the new buildings will have little new impact on the current situation. The recent plantings from 2016 onwards of native vegetation will however have a lasting and positive impact. They will provide effective screening of the site from almost every direction once established.

The proposed native revegetation includes many trees and shrubs that are representative of the local riparian zone. There is a high emphasis on using trees in order to gain the necessary height. There is also

an emphasis on plant quantity to ensure the planting screens are dense and as wide as possible. Good plant quality and the use of local provenance plant stock are to be used at all times.

The tree and shrub plantings to the west of West Dam have included approximately 2000 tubestock plantings of riparian zone vegetation. These plantings are well established but as yet have not been approved. It includes trees, shrubs, grasses and reeds. The plantings have occurred at varying densities, ranging from 1/4m2 (minimum) for trees to 5/m2 for grasses. Average planting density is approximately 1/m2. All plants are to be of local provenance.

Maintenance practices have been and will continue to be undertaken to ensure healthy growth of all plantings. This includes rabbit and pest control using fencing and rabbit bags as required. It also includes weeding, watering and replacement planting. Weed control is by hand removal as much as possible. Diligence should be shown to regularly remove flowering weeds to prevent the spread of weed seeds. Weed control should limit the use of herbicides and if necessary only use Roundup BioActive as per manufacturers instructions. .

On-going maintenance of the pond verges will control weeds, enhance the growth of nutrient absorbing reeds and aid in the final polishing of water quality. The controlled release of water for irrigation purpose in the pasture paddock will continue to be undertaken and will assist in maintaining storage capacity and absorbing nutrients through plant growth.

The aim of carrying out revegetation works as designed has many objectives as listed below:

- riparian species planting and revegetation does not impede flood flows
- native vegetation screening is more effective being set close to the source of visual and odour disturbance
- healthy and linked revegetation creates a larger and well connected native habitat zone

MAINTENANCE SCHEDULE

Weekly - Check for weed seeds and treat/remove as required

Remove weeds by handWatering as required

- Check fencing and rabbit bags. Repair and replace as required

Monthly - Replace failed plants

- Spray weeds as required (Roundup Bioactive)

- Check, monitor and treat pests and disease

Bi-annually - Harvest reeds in dams/ponds

- Remove weeds in and around dams/ponds

- Remove rabbit bags once plants well established

SUMMARY AND CONCLUSION

The completed revegetation for this development achieves a successful balance of maintaining native habitat and providing effective screening of the site. Previously approved revegetation works have been very successful and it is the intent of the owners to continue this valuable works to create even more effective screening of the site and to create expanded native habitat.

The South Creek is a valuable resource to the community, environment and the operators of this site. For this reason the Tolson Family and Elf Farm Supplies are committed to the ongoing quality of water entering the system and the vegetation communities that help to protect the riparian zone.

It is concluded that the completed revegetaion works have had a positive aesthetic and environmental impact on the local amenity. I therefore recommend it be approved as implemented.

Rodney Cox AAILA MaEnvSt / BLArch ElfFarmsReport30.07.18

PLANTING SCHEDULE (all sourced from local provenance supplier)

Tree Species	Quantity
Casuarina cunninghamiana (River Oak)	200
Eucalyptus amplifolia (Cabbage Gum)	200
Eucalyptus deanei (Deane's Gum)	200
Eucalyptus fibrosa (Broadleaf Ironbark)	200
Eucalyptus tereticornis (River Red Gum)	200
Shrub Species	
Acmena smithii (Lilly Pilly)	100
Backhousia myrtifolia (Grey Myrtle)	100
Bursaria spinulosa (Blackthorn)	100
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Groundcover/Climber Species	100
Cissus hypoglauca (Water Vine)	100
Imperata cylindrical (Blady Grass)	100
Smilax australis (Smilax)	100
Hardenbergia violaceae (Sarsaparilla Vine)	100
Wetland Species	
Eleocharis sphacelata (Tall Spike Rush)	100
Juncus usitatis (Juncus)	100
Phragmites australis (Common Reed)	100
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