



# **Landscaping and Vegetation Management Plan**

**For  
Woodlawn Bioreactor**

**Document Code: PLA-NSW-XXX-XXX-1**

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**PLAN**

**Landscaping and Vegetation Management Plan**

**QUALITY INFORMATION**

**Document Revision Register**

Rev	Revision Details	Prepared by	Review By	Authorised By	Date
1	Initial draft for internal review	Stephen Bernhart NSW Resource Recovery Project Manager	Ramona Bachu NSW Environment Officer		30 March 2016

Signatures



2	Final draft for submission to DPE	Stephen Bernhart NSW Resource Recovery Project Manager	Ramona Bachu NSW Environment Officer	Henry Gundry Woodlawn Facilities Manager	14 April 2016
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Signatures



3	Revision 1 with OEH comments	Stephen Bernhart NSW Resource Recovery Project Manager		Stephen Bernhart NSW Resource Recovery Project Manager	25 August 2016
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Signatures



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## Definitions/Abbreviations

AEMR	Annual Environmental Management Report
COC	Conditions of Development Consent
CLC	Community Liaison Committee
DA	Development Application
DPE	NSW Department of Planning and Environment
EA	Environmental Assessment
EP&A	Environmental Planning and Assessment (Act and Regulations)
EPA	NSW Environment Protection Authority
EPL	Environment Protection Licence
GDR	Great Dividing Range
ha	Hectares
Heron	Heron Resources Limited Pty Ltd
km	Kilometres
LVMP	Landscaping and Vegetation Management Plan
mAHD	Metres Australian Height Datum
MOP	Mining Operations Plan
NIMS	National Integrated Management System
NPWS	NSW National Parks and Wildlife Service
PA	Project Approval – Woodlawn Expansion Project (10_0012)
POEO	Protection of the Environment Operations (Act and Regulations)
RIVO	Incident and Compliance Management System
SHEQ	Safety, Health, Environment & Quality
SML20	Special (Crown & Private Lands) Mining Lease 20
TADPAI	Tarago and District Progress Association Incorporated
tpa	Tonnes per annum
Veolia	Veolia Australia and New Zealand

## **Section 1 Introduction**

### **1.1 Overview**

Veolia Australia and New Zealand (Veolia) own and operate the Woodlawn Eco Project Site (the Eco Project Site), which is located in the Southern Highlands of NSW, approximately 250 kilometres (km) South West of Sydney.

The Eco Project Site consists of two properties on approximately 6,000 hectares (ha) of land, namely Woodlawn and Pylara and includes the area of the Special (Crown & Private Lands) Lease 20 (SML 20), encompassing the Woodlawn Mine, a former lead, copper and zinc mine which ceased mining operations in 1998. The first stage of the Eco Project Site developed by Veolia was the Woodlawn Bioreactor (the Bioreactor), which commenced operations in September 2004 and is located in the void of the former Woodlawn Mine.

The Bioreactor has considerable capacity to receive putrescible waste generated from both Sydney and surrounding areas of regional NSW. On the basis of this, a modification application was sought by Veolia to remove the arbitrary annual waste input limits into the Bioreactor, and in response to the *Wright Corporate Strategies' Public Review – Landfill Capacity and Demand* (the Wright Review, 2009). The Wright Review was an independent review commissioned by the Minister for Planning to examine critical issues such as the continuing need for putrescible waste landfill capacity, regional disposal capacity and demand.

On 16 March 2012, the Department of Planning and Environment (DPE) granted approval for the Bioreactor to increase its annual maximum input rate from 500,000 tonnes per annum (tpa) to 1,130,000 tpa, referred to hereon as the expanded operations.

This Landscaping and Vegetation Management Plan (LVMP) has been prepared in accordance with the regulatory requirements pertaining to the Bioreactor. This plan details potential impacts on vegetation and visual amenity from landscaping from Veolia's operations and details the relevant mitigation measures to be undertaken to minimise the chances of the impacts occurring. This plan incorporate pest, vermin and noxious weed management measures.

### **1.2 Scope and Objectives**

The objective of the LVMP is to document how Veolia intend to manage landscaping and vegetation, including pest, vermin and noxious weeds, at the Bioreactor so that any potential impacts from Veolia's operations are minimised.

The key goals of the LVMP are to:

- Facilitate compliance with the relevant State legislations, regulations and/or approvals.
- Detail measures to minimise vegetation loss at the Bioreactor
- Detail measures to enhance vegetation through tree planting at the Eco-Project site
- Detail landscaping at the Bioreactor, with consideration of visibility from public vantage points
- Detail ongoing maintenance and rehabilitation at the Eco-Project site.

The management strategies detailed within the LVMP shall be reviewed in accordance with condition 9 of schedule 7 of the conditions of the Woodlawn Expansion Project – Project Approval.

### 1.3 Legal and Other Requirements

The following regulatory framework applies to this LVMP:

- Project Approval – Woodlawn Expansion Project (10-0012) issued under the Environmental Planning and Assessment Act 1979 (PA)
- Environment Protection Licence 11436 issued under the Protection of the Environment Operations (POEO) Act 1997 (EPL)
- Water Access Licence: Willeroo Borefield (# 40BL106422-106425)
- Licence to Operate an Onsite Sewerage Treatment Plant - Goulburn Mulwaree Council
- Development Consent (DA-31-02-99) issued under the Environmental Planning and Assessment Act 1979 (DA)

#### 1.3.1 Project Approval 10-0012

The relevant conditions of consent (COC) from the PA are provided in Table 1.1.

**Table 1.1 – PA Conditions**

Relevant COC	Requirement	LVMP Reference
<b>FLORA AND FAUNA</b>		
23	<p><b>Vegetation Management Plan</b>            The Proponent shall prepare and implement a Landscaping and Vegetation Management Plan for the Landfill. This plan must:</p> <p>(a) be prepared in consultation with OEH and NOW by a suitably qualified and experienced expert;</p> <p>(b) be approved by the Director-General prior to the commencement of expanded operations;</p> <p>(c) include measures to minimise such vegetation loss and additional tree planting to offset this loss;</p> <p>(d) detail any landscaping treatments at the Landfill, with particular attention to minimising the visibility of the site/s from residences and public vantage points;</p> <p>(e) describe the on-going maintenance regime for rehabilitation and vegetation management in the rehabilitation area/s.</p> <p>This plan must be documented in the Landfill EMP (see condition 3 in schedule 7).</p>	<p>3.1.5</p> <p>4.1.1</p> <p>4.1.4</p>
24	<p><b>Pest, Vermin &amp; Noxious Weed Management</b>            The Proponent shall:</p> <p>(a) implement suitable measures to manage pests, vermin and declared noxious weeds on site; and</p> <p>(b) inspect the site on a regular basis to ensure that these measures are working effectively, and that pests, vermin or noxious weeds are not present on site in sufficient numbers to pose an environmental hazard, or cause the loss of amenity in surrounding area.</p> <p><i>Note: For the purposes of this condition, noxious weeds are those species subject to an order declared under the Noxious Weed Act 1993.</i></p> <p>These measures must be documented in the Landfill EMP (see condition 3 in schedule 7).</p>	<p>3.1.4,</p> <p>4.1.5</p> <p>5.1</p>

## PLAN Landscaping and Vegetation Management Plan

### 1.3.2 Veolia's Statement of Commitments

No statement of commitments made by Veolia are relevant to the LVMP.

### 1.3.3 Development Consent (DA-31-02-99)

The relevant COC from the development consent are provided in Table 1.2. Where conditions are similar to the PA, the PA takes precedence.

**Table 1.2 – DA Conditions**

Relevant COC	Requirement	LVMP Reference
149	The Applicant shall prepare a Landscaping and Vegetation Management Plan for both the Waste Management Facility and Intermodal Facility sites. The Plan shall be prepared by a suitably qualified person and shall address, but not be limited to, the following matters: (a) details of likely vegetation loss, means to minimise such loss and additional tree planting to offset this loss; (b) proposed plant species; and (c) details on landscaping treatment at the intermodal facility site, with particular attention to minimising the visibility of the facility from residences and public vantage points.	Refer to PA (Sch 4 Cond 23)
150	The Plan shall be prepared to the satisfaction of the Director-General and Council and shall be submitted at least three months prior to the commencement of landfilling operations	Noted
153	<b>FLORA AND FAUNA</b> <b>Terrestrial Flora and Fauna</b> The Applicant shall consult with NPWS on measures to conserve the population of the vulnerable orchard ( <i>Diuris aequalis</i> – Buttercup Doubletail) in retained natural woodland on land within the Woodlawn mine site that is subject to the DA or areas potentially affected by the operation of the waste management facility.	4.1.7
154	<b>Aquatic Flora and Fauna</b> The Applicant shall consult NSW Fisheries prior to the commencement of any works (including, but not limited to channel realignment, dredging, reclamation, culverts, road crossings, pipelines and weirs) in or adjacent to aquatic habitats.	Noted
155	The Applicant shall undertake all practicable measures to maintain and, where possible, enhance existing habitat features in the Mulwaree River and Crisps Creek, including gravel beds, riffles, pools, snags and aquatic and riparian vegetation.	Noted
156	The Applicant shall, in consultation with NSW Fisheries, ensure that the bridge from the Intermodal Facility over Mulwaree River is designed so that fish passage, instream flow and stream bed continuity are maintained.	Noted
157	<b>Non-Aboriginal Heritage</b> In the event that any items potentially of non-Aboriginal heritage significance are identified on the subject land during the carrying out of works, the Applicant shall arrange for a suitably qualified archaeologist to inspect the item/s, determine the level of significance of the item/s and advise on appropriate management measures	3.1.7

### 1.3.4 Environment Protection Licence

No relevant conditions from EPL 11436 are relevant to the LVMP.

## **1.4 Stakeholder Consultation**

Veolia is committed to meaningful stakeholder engagement and has worked in collaboration with relevant government agencies and the local community in the township of Tarago since the commencement of operations of the Bioreactor to resolve issues that impact local environmental amenity, as a result of operations at the Bioreactor.

### **1.4.1 Government Agencies**

The following government agencies have been consulted with in association with the operations of the Bioreactor pertaining to leachate management:

- NSW Environment Protection Authority;
- NSW Department of Primary Industries – Water (NSW Office of Water).

### **1.4.2 Community Consultation**

Veolia has formed a Community Liaison Committee (CLC), which acts as an interface between the residents of Tarago and Veolia to proactively resolve issues that potentially impact on local amenity from operations at the Bioreactor.

The key objectives of the communication and consultation program include:

- Educating stakeholders regarding key aspects of the Bioreactor; and
- Informing community groups and neighbours to help Veolia understand concerns.

Community consultation activities include:

- A dedicated Veolia webpage, offering general information on the Bioreactor;
- A community telephone line to provide a central point of contact for community enquiries;
- Providing regular updates in the local newspaper, Tarago Times, which is non-profit community service, published monthly by the Tarago Sporting Association Inc. It is distributed throughout Tarago, Lake Bathurst, Mayfield, Boro, Taylors Creek and the surrounding district.

Active participation in the Tarago and District Progress Association Incorporated (TADPAI), which is a community group aimed at promoting the district and assisting the community in the development and maintenance of a rural lifestyle.

## Section 2 Goals of the LVMP

The goals of the LVMP are:

- Detail the vegetation that exists at the Bioreactor
- Detail how vegetation is to be protected during operations at the Bioreactor
- Detail tree planting and re-vegetation programs
- Detail landscaping to screen the Bioreactor from public vantage points
- Detail maintenance measures related to rehabilitation and vegetation management
- Detail measures taken to control and minimise pests and vermin
- Detail programs to control and minimise noxious weeds

### 2.1 Roles and Responsibilities

Table 2.1 outlines the responsibilities of Veolia personnel with respect to leachate management.

**Table 2.1 – LVMP Responsibilities**

Action	Responsibility
Overall implementation of the LVMP	Woodlawn Facilities Manager and Operational Personnel
Implement measures to protect vegetation	Woodlawn Facilities Manager and Operational Personnel
Manage revegetation and tree planting programs	Woodlawn Environmental Officer
Implement and maintain landscaping actions	Woodlawn Facilities Manager and Operational Personnel
Undertake maintenance measures to rehabilitated and vegetated areas	Woodlawn Facilities Manager / Woodlawn Environmental Officer / Operational Personnel
Implement pest and vermin control measures	Woodlawn Facilities Manager / Woodlawn Environmental Officer
Implement programs to control noxious weeds	Woodlawn Facilities Manager / Woodlawn Environmental Officer
Identify non-conformances and notify Facility Manager/ Safety Health Environment Quality (SHEQ) Representative	Woodlawn Environmental Officer / Operational Personnel
Authorise and confirm the implementation of mitigation measures	Woodlawn Facilities Manager
Liaise with government agencies and regulators,	Woodlawn Facilities Manager / Woodlawn Environmental Officer

## **SECTION 3 Existing Environment and Operational Impacts**

### **3.1 Existing Environment**

The footprint of the Bioreactor will not change as a result of the expansion operations. All operations associated with the proposal will take place in areas that have been previously disturbed by mining activities. The areas have been surveyed and all vegetation has been previously assessed in a flora and fauna study completed for the original Environmental Impact Statement. Therefore, no additional impacts on Indigenous cultural heritage or on flora and fauna are projected.

#### **3.1.1 Existing Landscape**

The average elevation of the Woodlawn Site is approximately 800 metres above Australian Height Datum (mAHD), with a range in elevation from 760 mAHD in the north-east corner of the Site to 1000 mAHD along the ridgeline of the Great Dividing Range (GDR). The region generally comprises rolling undulating pastoral plains with the GDR running through the Site in a north–south direction.

The Bioreactor and immediate surrounds are comprised steep slopes and remnant embankments resulting from mining activities. The Bioreactor is shielded from view by a series of trees running along the Eco-Project boundary along Collector Road (Figure 1).



**Figure 1: View of Bioreactor at entrance from Collector Road**

#### **3.1.2 Existing Vegetation**

Vegetation within the Bioreactor is highly fragmented with large expanses of cleared land surrounding predominantly isolated remnants along the rocky ridges and roadsides.

Derived Grassland is the most abundant vegetation community, particularly on the mid to lower slopes and areas of the valley floor containing rocky and shale loam soils. Vegetation is dominated by a variety of exotic and native pasture grasses, and has been significantly modified by historical earth movement and agricultural activities, including clearing, grazing and pasture improvement through the introduction of exotic and non-endemic grasses.

A summary of existing vegetation at the Bioreactor includes:

- No vegetation is present within the footprint of the Bioreactor, the power station or at Evaporation Dam 3.
- The former waste rock dump located approximately 200 metres to the south of the Bioreactor has been rehabilitated and comprises a low woodland of native and introduced species of grasses, shrubs and small trees.

- An area immediately to the east of the rehabilitated waste rock dump comprises a relatively undisturbed low woodland dominated by small trees and grasses.
- The office area is a landscaped area with thick coverage of grass surrounding footpaths through to the office building. Major tree species include *Banksia ericifolia* and a number of species of Eucalypt.
- Serrated Tussock is present on the Eco-Project site but has not been detected at the Bioreactor.
- Plans showing the location and species list of vegetation within the project approval area are as per the plans the original plans developed for the Bioreactor (Appendix A).

### **3.1.3 Existing Fauna**

Due to the sparse vegetation, the Bioreactor is unable to support a diverse range of grassland reptiles, mammals and does not attract many native birds. A summary of fauna encountered within the Bioreactor area include:

- Eastern Tiger Snake (*Notechis scutatus*)
- Red-bellied Black Snake (*Pseudechis porphyriacus*)
- Eastern Brown Snake (*Pseudonaja textilis*)
- Eastern Grey Kangaroo (*Macropus giganteus*)
- Common Wombat (*Vombatus ursinus*)
- European Red Fox (*Vulpes vulpes*)
- Deer (*Cervinae Cervus*)
- Black fly (species not identified)

### **3.1.4 Pest and Weed Management**

Existing pest and weed management practices include:

- Establishment of rodent bait traps around the perimeter of the Bioreactor, office, workshop, power station and other buildings. Bait traps are inspected and re-established monthly.
- Spraying of flies within the Bioreactor, as required
- Fox baiting programs occur in surrounding areas to the Bioreactor
- Herbicide is applied to Serrated Tussock on an annual basis

Should new pests be identified onsite, inspections will be implemented to detect if new management measures need to be adopted.

### **3.1.5 Tree Planting Programs**

Veolia undertake vegetation monitoring and tree planting programs at the Eco-Project site. Tree planting aims to increase native species, which in turn creates new habitats for native fauna. Tree planting programs may include the following activities:

- Identification of suitable locations for planting;
- Assessment of existing vegetation and trees;
- Purchase of native saplings;

- Planting of saplings, generally with local volunteer groups
- Funding of tree planting program
- Installation of sapling tubes / tree guards
- Application of fertiliser and/or mulch as required

### **3.1.6 Mine Site Rehabilitation**

Veolia is committed to progressive rehabilitation of the following areas at Woodlawn (as shown in Appendix B):

- Mine void – Rehabilitation through landfill
- Plant Area – An options assessment has been completed for the rehabilitation of the Plant Area.
- Evaporation Dam 3

Other areas of the mine site are subject to a current development approval by Heron Resources Limited Pty Ltd (Heron). Under the approved development, Heron are proposing to undertake further underground mining and reprocessing over various areas of the mine site. Rehabilitation of other areas, will be the responsibility as identified in Heron Mining Operations Plan (MOP).

### **3.1.7 Exposure of Heritage Items**

In the event potential heritage items or artefacts are uncovered at the site, the following process is followed:

- All works must cease in the immediate vicinity
- The area is demarcated and protected, where appropriate
- A suitably qualified archaeologist is contacted to assess the items / objects and recommend appropriate management measures Any management measures recommended must be approved by DPE

### **3.1.8 Woodlawn Aquaponics Project**

The Woodlawn Aquaponics System is an aquaculture and hydroponic project. This system is accredited with Department of Primary Industries for the sale of fish and is located within a dedicated building opposite the workshop. The aquaponics process includes:

- Growing fish such as Silver Perch and Barramundid within a dedicated tank farm. Fish are distributed by age from fingerling, through to juvenile and adult fish.
- Temperature of the water is optimised for fish growth by utilising heat from the landfill gas power station to maintain water temperature, at 28°C. Water from the tanks is constantly cycled past a heat exchanger to facilitate the heat transfer
- Fish are fed using automatic feeding systems based on timers
- Fish growing tanks are continuously aerated to maintain suitable Oxygen levels for fish growth. Dissolved Oxygen levels are monitored continuously.

- Plants are used to filter the water using a 'floating raft' to situate the plants on the water surface. Water is continuously cycled to this tank for nutrient extraction
- Adult fish are sold to market via a wholesaler

### **3.2 Predicted Landscaping and Vegetation Impacts**

No additional impacts on heritage items or on flora and fauna are projected.

## **Section 4 Landscaping and Vegetation Management Measures**

Mitigation measures that have been incorporated into the operations of the Bioreactor to minimise the risk and consequences associated with the landscaping and vegetation management, including pests, vermin and noxious weeds, are summarised below:

- Maintain existing visual screening
- Protection of topsoil resources
- Continue tree planting programs
- Complete inspections and maintenance of flora and fauna
- Continue existing pest management practices
- Rehabilitation of Bioreactor operational areas
- Consultation with National Parks and Wildlife Service

### **4.1 Landscaping Control Measures**

#### **4.1.1 Maintain existing visual screening**

Existing vegetation that provides visual screening of the Bioreactor from Collector Road will be maintained. Inspections of vegetation will be undertaken to identify the health of the vegetation over the life of Bioreactor operations.

#### **4.1.2 Protection of topsoil resources**

Where topsoil is available within the Bioreactor operational areas, these areas will be protected and excluded from activities which may cause loss of topsoil, where practical. Vegetation growth in these areas will be encouraged and/or enhanced through planting programs.

#### **4.1.3 Continue tree planting programs**

Tree planting programs will continue to be undertaken to enhance native vegetation at the Eco-Project site.

- All planting is installed as tubestock, unless otherwise advised, to increase plant survival and ongoing vigour.
- Planting is undertaken by hand or using small machinery to minimise disturbance to the erodable soils.
- Organic matter is utilised to improve soil fertility and should be dug into the planting area prior to planting. Compost material from the Mechanical Biological Treatment Facility will be considered to assist in this process.
- Application of slow release fertiliser is applied at the time of planting.
- Selection of native plants is completed in consultation with local bushcare/rehabilitation groups and/or Goulburn-Mulwaree Council.

**4.1.4 Complete inspections and maintenance of flora and fauna****Flora**

Inspection, monitoring and maintenance includes:

- Inspection and maintenance is undertaken frequently for a period of 12 months following establishment of trees in a defined area.
- Ongoing maintenance will be less intensive than the establishment period and will be limited to occasional plant replacement, and slashing the grassed areas to reduce fire hazard and weed proliferation.
- Undertake noxious weed spraying, where required

**Fauna**

Inspection, monitoring and maintenance includes:

- Undertake rodent baiting programs
- Undertake fox baiting programs

**4.1.5 Continue existing pest management practices**

Existing pest management practices will be continued. Should pest species be identified at within the bioreactor operational area, a review will be undertaken and pest management practices will be revised as needed.

**4.1.6 Rehabilitation of Bioreactor operational areas**

Rehabilitation of the mine void through landfilling is a continuous process. Final rehabilitation works shall be completed in accordance with the closure and rehabilitation plan. The areas to be rehabilitated include:

- The Bioreactor
- Plant Area
- Evaporation Dam 3
- Power Station; and
- Office and car park areas

Veolia will consult with OEH on the final rehabilitation plans and plant species to be adopted within the rehabilitation areas, once a suitable rehabilitation design is selected and additional detail is developed.

**4.1.7 Consultation with National Parks and Wildlife Service**

Veolia consult with National Parks and Wildlife Service (NPWS) where required in relation to threatened species identified and/or for controlling noxious weeds.

## Landscaping and Vegetation Monitoring and Reporting

### 4.2 Monitoring Program

Veolia undertake a monitoring program in accordance with Table 5.1.

**Table 0.1 – LVMP Monitoring Schedule**

Parameter	Monitoring Location(s)	Frequency
Rodent Baiting	Perimeter of Bioreactor Buildings	Monthly
Inspections of flora, including noxious weeds	Bioreactor site	Monthly

### 4.3 Performance Reporting and Review

All data collected is presented in a consolidated Annual Environmental Management Report (AEMR) which is submitted to DPE, EPA and other relevant stakeholders.

### 4.4 Exceedances and Corrective Actions

All incidents are investigated, and corrective actions assigned to prevent future occurrences.

An incident may involve any action or activity deemed to be in non-compliance with this LVMP, other management plans as well as actual or potential Material or Serious Environmental Harm.

All incident reporting will be recorded in RIVO, which forms part of Veolia's National Integrated Management System (NIMS).

### 4.5 Publishing of Monitoring Data

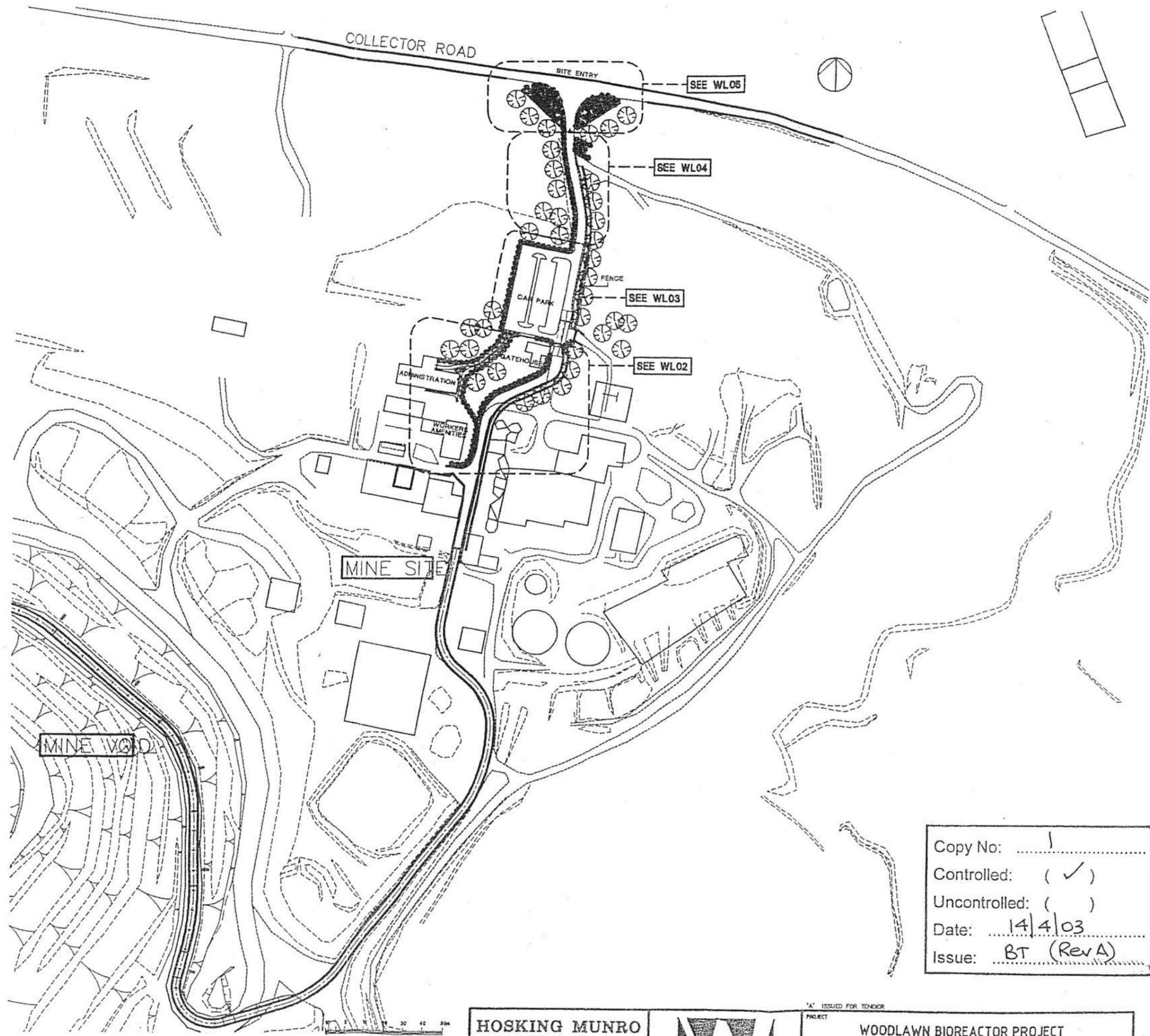
Where required, Veolia publishes the results of any environmental monitoring required under the EPL on the following website:

<http://www.veolia.com.au/sustainable-solutions/environmental-compliance/nsw-environmental-monitoring-data>

## References

1. Heron (2014). *Mining Operations Plan*

## **Appendix A – Existing Vegetation Plans**



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**HOSKING MUNRO**  
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"A" ISSUED FOR TENDER			
PROJECT		WOODLAWN BIOREACTOR PROJECT CRISP'S CREEK INTERMODAL	
DRAWING NAME		WOODLAWN SITE PLAN	
SCALE 1:1000	DRAWN	JOB NO.	DWG. NO.
DATE MAR '03		HM729	WLO1A



**PLANT SCHEDULE**

BOTANICAL NAME	COMMON NAME	ADV SIZE	NO.	SIZE	STAKING
<b>TREES</b>					
Ad ACACIA dealbata	SILVER WATTLE	6m x 4m	2	35L	x 2
Ae ANGOPHORA subvelutina	BROAD LEAVED APPLE	7m x 6m	-	75L	x 3
Bl BANKSIA integrifolia	COAST BANKSIA	6m x 4m	-	25L	x 2
Bs BANKSIA serrata	SAW BANKSIA	6m x 4m	-	25L	x 2
Co CALLISTEMON citrinus	CRIMSON BOTTLEBRUSH	3m x 2m	-	25L	x 2
Ci CASUARINA littoralis	BLACK SHE OAK	6m x 3m	-	25L	x 2
Eo EUCALYPTUS cinerea	ARGYLE APPLE	7m x 4m	3	75L	x 3
Em EUCALYPTUS melliodora	YELLOW BOX	12m x 6m	4	75L	x 3
Es EUCALYPTUS sideroxylon	RED IRON BARK	12m x 7m	2	75L	x 3
Ev EUCALYPTUS viminalis	RIBBON GUM	15m x 8m	1	75L	x 3
Ln LEPTOSPERMUM nitidum	SHINY TEA TREE	3m x 3m	-	25L	x 2
Mh MELALEUCA hypericifolia	RED FLOWERING PAPER BARK	3m x 2m	-	25L	x 2
Ml MELALEUCA lhartii	SNOW IN SUMMER	7m x 4m	12	25L	x 2
<b>SHRUBS</b>					
Df DIANELLA revoluta	BLUE FLAX LILY	1.5m x 1m	-	200	x 1
G GREVILLEA 'SUPERB'	GREVILLEA	1m x 1m	-	200	x 1
Kp KUNZEA parvifolia	VIOLET KUNZEA	1m x 1m	20	200	x 1
Lf LEPTOSPERMUM flavescens	COMMON TEA TREE	2m x 1.5m	25	200	x 1
Lj LEPTOSPERMUM juniperum	PRICKLY TEA TREE	1.5m x 1.5m	20	200	x 1
Md MYOPORUM debile	SPRAWLING MYOPORUM	0.8m x 1m	-	200	x 1
Pt PHORMIUM tenax	NZ FLAX	2m x 2m	-	200	x 1
Si SPRENGELIA inornata	PINK SWAMP HEATH	0.5m x 0.5m	-	200	x 1
Xe XANTHORRHOEA abrotan	FOREST GRASS TREE	2m x 1m	-	200	x 1
Xb XANTHORRHOEA australis	AUSTRAL GRASS TREE	1.5m x 1m	-	200	x 1
<b>NATIVE GRASS</b>					
Do DANTHONIA caespitosa	WALLABY GRASS	-	A	VT	-
Ea ERAGROSTIS elongata	ELVERA LAVENDER GRASS	-	B	VT	-
In ISOLEPUS nodosa	KNOBBY CLUB RUSH	-	C	VT	-
LK LOMANDRA longifolia 'KATRINUS'	SPINY MAT-RUSH	-	D	VT	-
LT LOMANDRA longifolia 'TAMIKAI'	SPINY MAT-RUSH	-	E	VT	-
Pa PENNisetum alopecuroides	SWAMP FOX TAIL	-	F	VT	-
PI POA labillardieri 'ESKDALE'	BLUE TUSsock GRASS	-	G	VT	-
Ta THEMEDIA australis	KANGAROO GRASS	-	H	VT	-
<b>GROUND COVER</b>					
Hv HARDENBERGIA violacea	NATIVE VIOLET	-	-	140mm	-
Pp PANDOREA pandorana	WONGA WONGA VINE	-	-	140mm	-
Kr KENNEDIA rubicunda	DUSKY OORAL PEA	-	-	140mm	-

NOTE: PLANT SCHEDULE REFERS TO PLANTINGS ON THIS SECTION ONLY

**NATIVE GRASSES:**

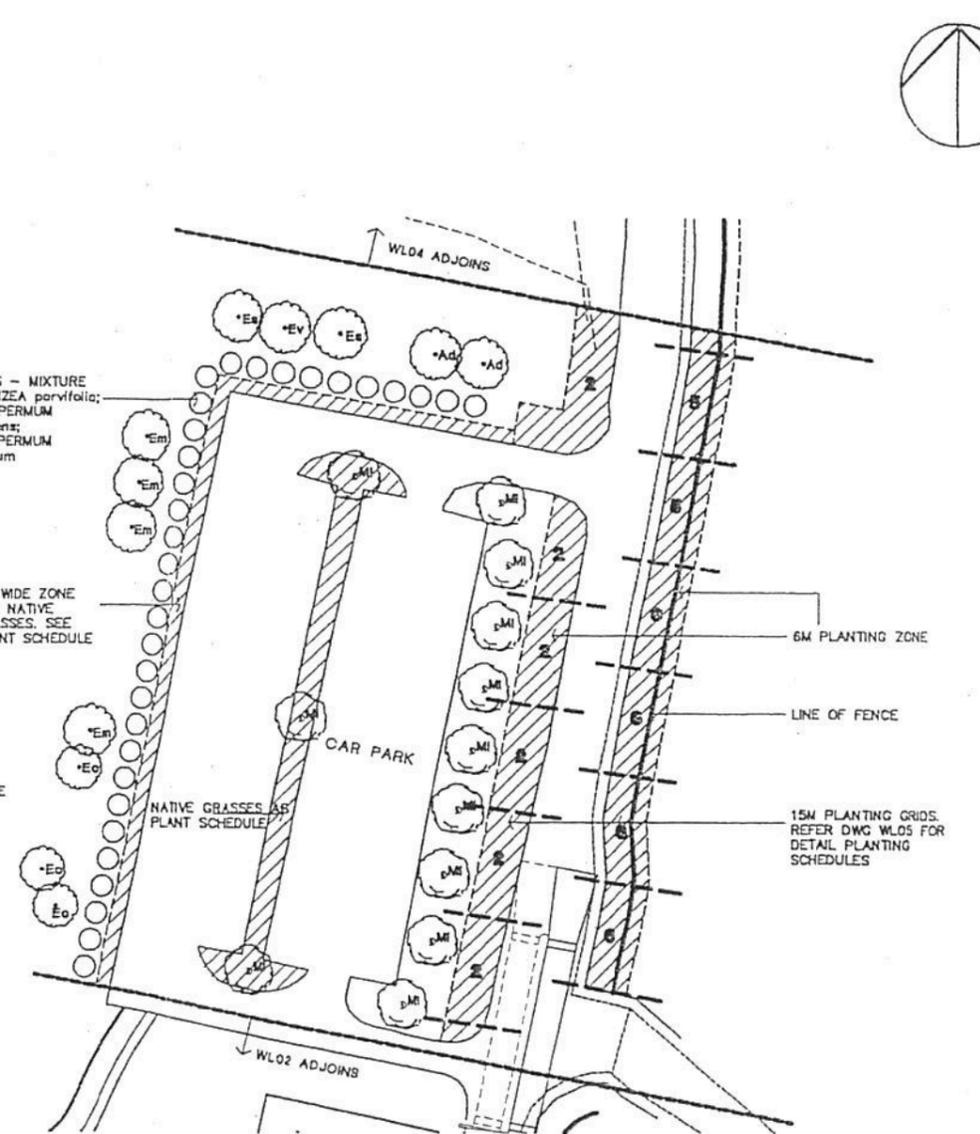
V.T DENOTES VIRO-TUBE - SUPPLIER: ABULK  
LOT 3 CUMPTIS LANE  
CLARENDON 2766  
PH: (02) 4677 6912

☼ DENOTE SPECIES USED. SPECIES TO BE EVENLY MIXED IN 6M STRIPS EACH.

**PLANTING RATES FOR NATIVE GRASSES USING VIRO-TUBE**

- A. 7 SQM
- B. 15 SQM
- C. 6 SQM
- D. 4 SQM
- E. 6 SQM
- F. 6 SQM
- G. 10 SQM
- H. 6 SQM

REFER TO DRAWING WLO6 FOR PLANTING SCHEDULES FOR 6M PLANTING ZONES



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Date: 14/4/03

Issue: BT (Rev A)



<b>HOSKING MUNRO</b> HOSKING MUNRO PTY. LTD. ARCHITECTS INTERIOR & LANDSCAPE DESIGNERS 451 HARRIS ST ULTIMO NSW 2007 PH: 02 9900 1066 FAX: 02 9902 6290 EMAIL: hosingmunro@ozemail.com.au		PROJECT: WOODLAWN BIOREACTOR PROJECT CRISP'S CREEK INTERMODAL	
		DRAWING NAME: CAR PARK PLAN	
SCALE: 1:500 DATE: MAR '03	DRAWN: M.V. DATE:	JOB NO: HM726 DWG NO: WLO3A	REV:

6117800 N

COLLECTOR

ROAD

NOTE: PLANT SCHEDULE REFERS TO PLANTINGS ON THIS SECTION ONLY

NATIVE GRASSES:  
V.T DENOTES VIRO-TUBE - SUPPLIER: ABULK  
LOT 3 CURTIS LANE  
CLARENDON 2758  
PH: (02) 4677 5912

\* DENOTE SPECIES USED. SPECIES TO BE EVENLY MIXED  
IN 6M STRIPS EACH.

PLANTING RATES FOR NATIVE GRASSES USING VIRO-TUBE

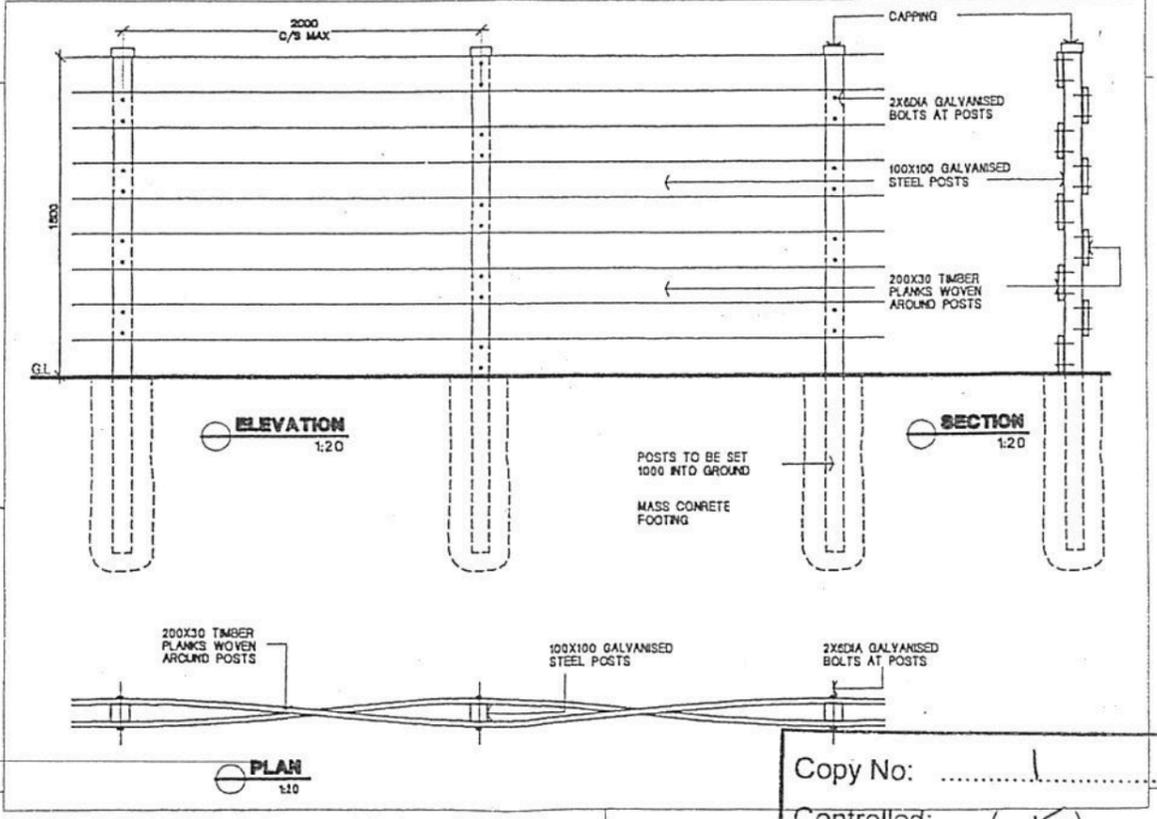
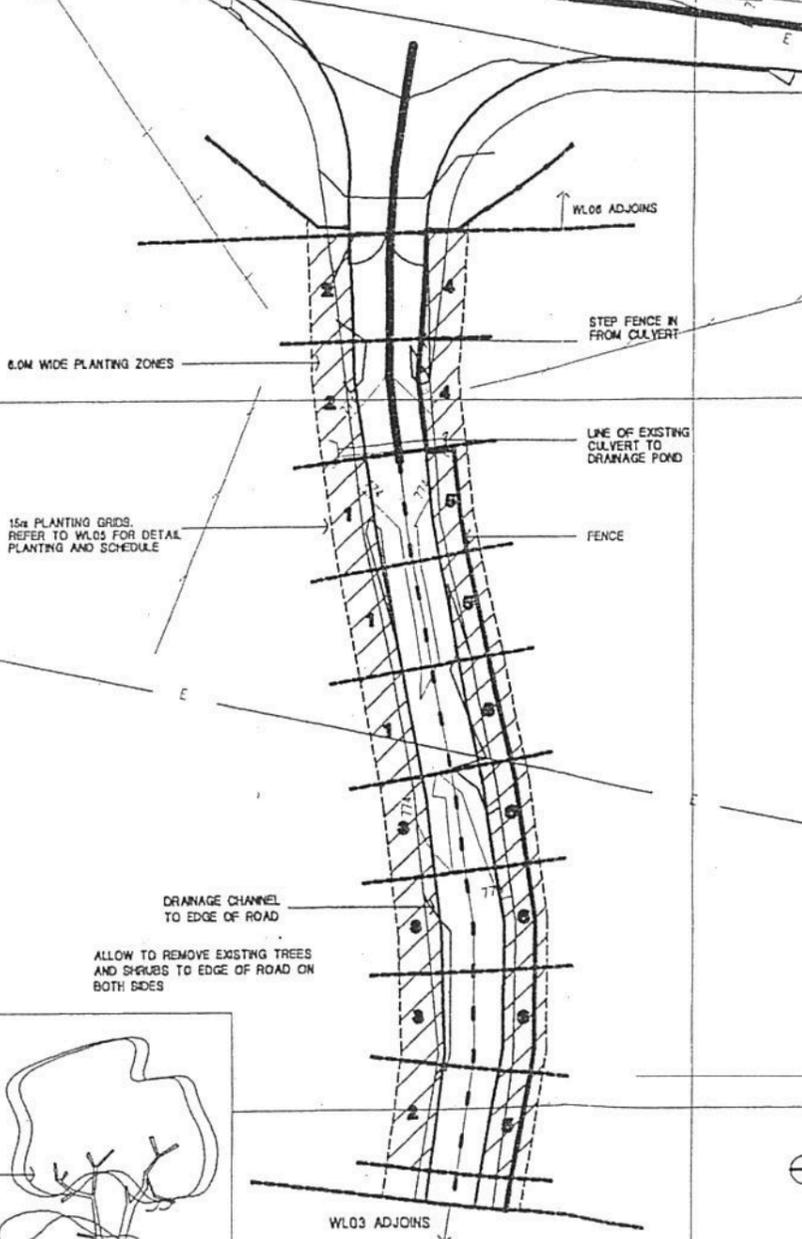
- A. 7 SQM
- B. 15 SQM
- C. 6 SQM
- D. 4 SQM
- E. 6 SQM
- F. 8 SQM
- G. 10 SQM
- H. 8 SQM

REFER TO DRAWING WL05 FOR PLANTING SCHEDULES  
FOR 6M PLANTING ZONES

PLANT SCHEDULE

BOTANICAL NAME	COMMON NAME	ADV SIZE	NO.	SIZE	STAKING
<b>TREES</b>					
Ad ACACIA dealbata	SILVER WATTLE	5m x 4m	-	35L x 2	
As ANGOPHORA subvoluta	BROAD LEAVED APPLE	7m x 5m	-	76L x 3	
Bl BANKSIA integrifolia	COAST BANKSIA	6m x 4m	-	25L x 2	
Bs BANKSIA serrata	SAW BANKSIA	6m x 4m	-	25L x 2	
Oc CALLISTEMON citrinus	CRIMSON BOTTLEBRUSH	3m x 2m	-	25L x 2	
Ci CASUARINA littoralis	BLACK SHE OAK	6m x 3m	-	25L x 2	
Eo EUCALYPTUS cinerea	ARGYLE APPLE	7m x 4m	-	75L x 3	
Em EUCALYPTUS meliodora	YELLOW BOX	12m x 6m	-	76L x 3	
Es EUCALYPTUS sideroxylon	RED IRON BARK	12m x 7m	-	76L x 3	
Ev EUCALYPTUS viminalis	RIBBON GUM	15m x 6m	-	76L x 3	
Ln LEPTOSPERMUM nitidum	SHINY TEA TREE	3m x 3m	-	25L x 2	
Mh MELALEUCA hypericifolia	RED FLOWERING PAPER BARK	3m x 2m	-	25L x 2	
Ml MELALEUCA linariifolia	SNOW IN SUMMER	7m x 4m	-	25L x 2	
<b>SHRUBS</b>					
Dr DIANELLA revoluta	BLUE FLAX LILY	1.5m x 1m	-	200 x 1	
G GREVILLEA 'SUPERB'	GREVILLEA	1m x 1m	-	200 x 1	
Kp KUNZEA parvifolia	VIOLET KUNZEA	1m x 1m	-	200 x 1	
Lf LEPTOSPERMUM flavescens	COMMON TEA TREE	2m x 1.5m	-	200 x 1	
Lj LEPTOSPERMUM juniperium	PRICKLY TEA TREE	1.5m x 1.5m	-	200 x 1	
ld MYOPORUM debile	SPRAWLING MYOPORUM	0.8m x 1m	-	200 x 1	
Pl PHORMIUM tenax	NZ FLAX	2m x 2m	-	200 x 1	
Sl SPRENGELIA inornata	PINK SWAMP HEATH	0.8m x 0.6m	-	200 x 1	
Xa XANTHORRHOEA aborea	FOREST GRASS TREE	2m x 1m	-	200 x 1	
Xb XANTHORRHOEA australis	AUSTRAL GRASS TREE	1.5m x 1m	-	200 x 1	
<b>NATIVE GRASS</b>					
Do DANTHONIA caespitosa	WALLABY GRASS	-	A	VT	-
Ea ERAGROSTIS elongata	ELVERA LAVENDER GRASS	-	B	VT	-
in ISOLEPUS nodosa	KNOBBY CLUB RUSH	-	C	VT	-
LX LOMANDRA longifolia 'KATRINUS'	SPINY MAT-RUSH	-	D	VT	-
LT LOMANDRA longifolia 'TANCA'	SPINY MAT-RUSH	-	E	VT	-
Pa PENNIBETUM alopecuroides	SWAMP FOX TAIL	-	F	VT	-
Pl POA lachardii 'ESKDALE'	BLUE TUSsock GRASS	-	G	VT	-
Ta THEMEDA australis	KANGAROO GRASS	-	H	VT	-
<b>GROUND COVER</b>					
Hv HARDENBERGIA violacea	NATIVE VIOLET	-	-	140mm	-
Pp PANDOREA pandorana	WONGA WONGA VINE	-	-	140mm	-
Xr KENNEDIA rubicunda	DUSKY CORAL PEA	-	-	140mm	-

6117700 N



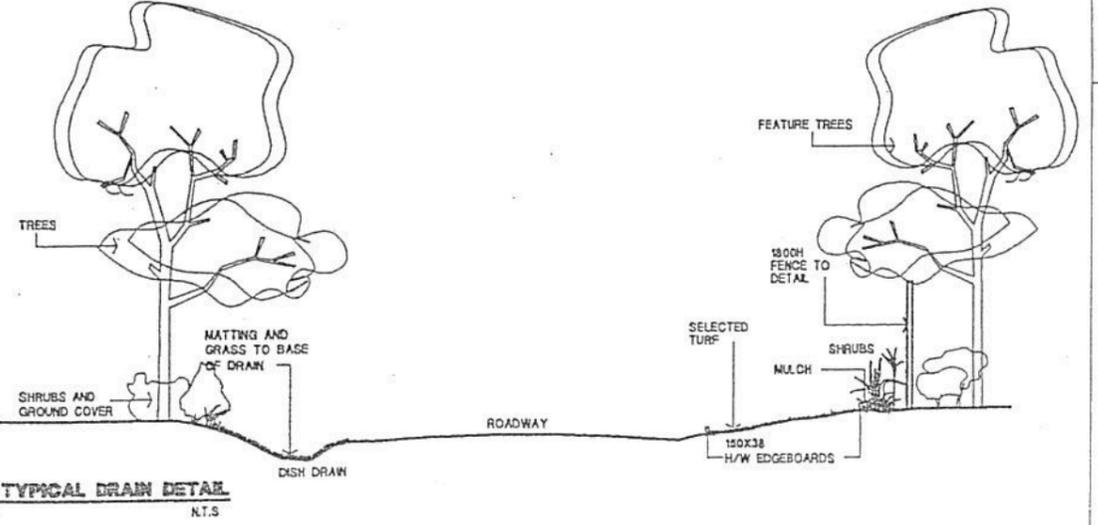
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Date: 14/4/03

Issue: BT (Rev A)



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ARCHITECTS INTERIOR & LANDSCAPE DESIGNERS  
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EMAIL hosmunro@ozemail.com.au



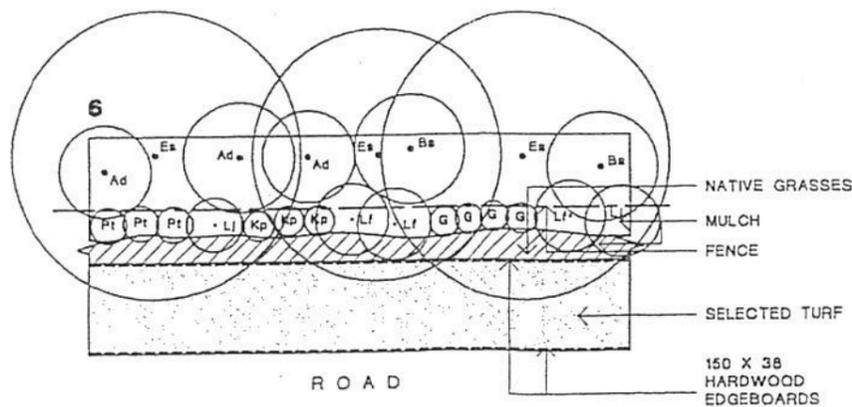
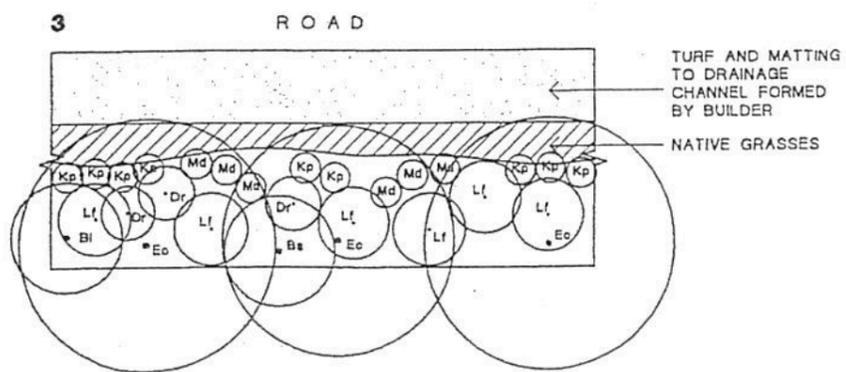
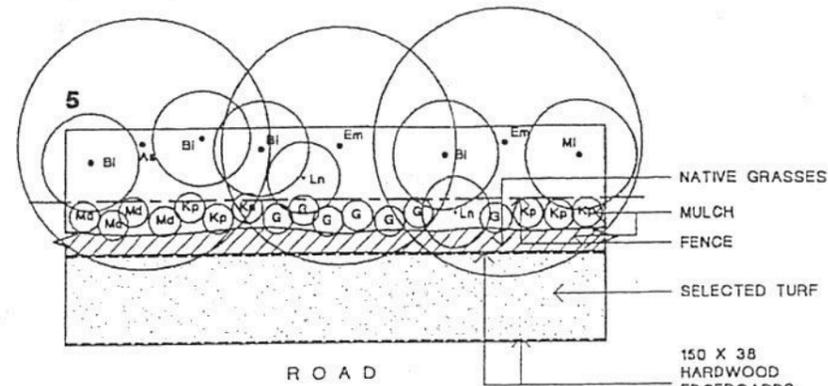
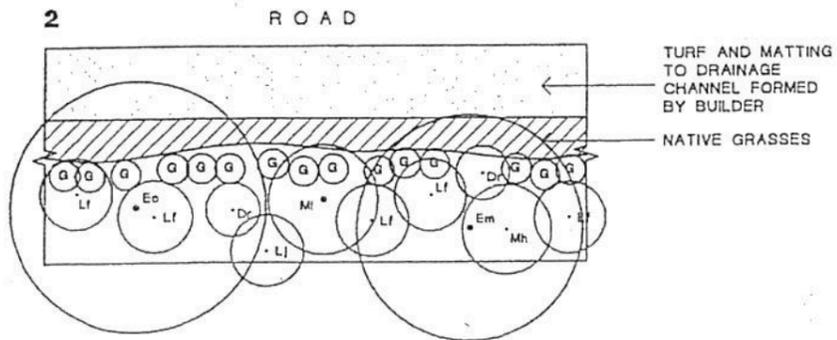
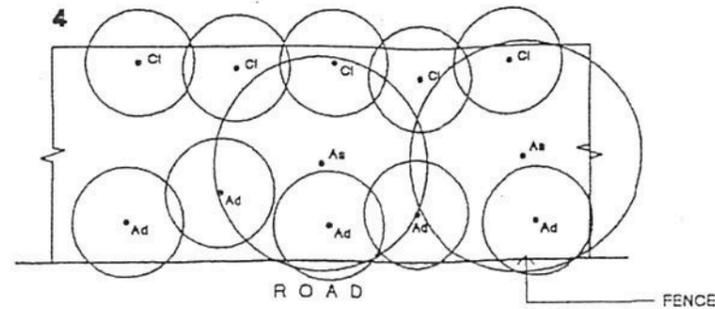
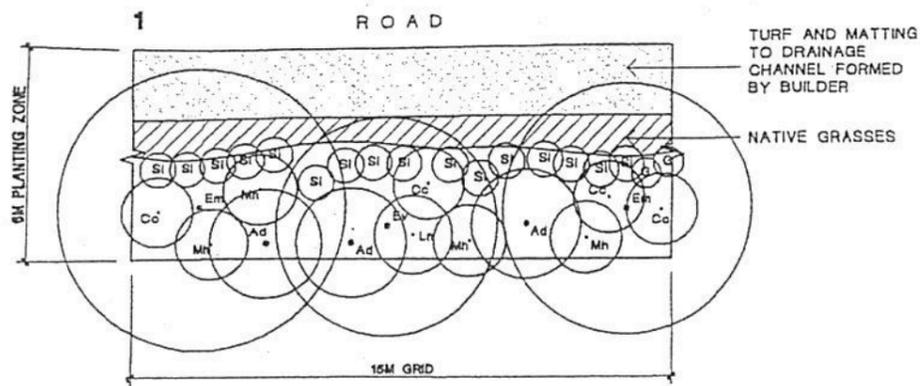
PROJECT: WOODLAWN BIOREACTOR PROJECT  
CRISP'S CREEK INTERMODAL

DRAWING NAME: WOODLAWN MAIN ENTRY ROAD PLAN

SCALE: 1:200, 1:20 DRAWN: JLV DATE: MAR '03

REV. NO. 100 NO. HM726 DWG. NO. WL04 A

'A' ISSUED FOR TENDER



BOTANICAL NAME	COMMON NAME	ADY SIZE	ZONE NO						SIZE	STAKING
			1	2	3	4	5	6		
<b>TREES</b>										
Ad	ACACIA dealbata	SILVER WATTLE	6m x 4m	3	-	-	5	-	3	36L x 2
As	ANGOPHORA subvelutina	BROAD LEAVED APPLE	7m x 6m	-	-	-	3	1	-	76L x 3
Bl	BANKSIA integrifolia	COAST BANKSIA	6m x 4m	-	-	2	-	4	-	26L x 2
Bs	BANKSIA serrata	SAW BANKSIA	6m x 4m	-	-	1	-	3	-	26L x 2
Co	CALLISTEMON citrinus	CRIMSON BOTTLEBRUSH	3m x 2m	4	-	-	-	-	-	26L x 2
Cl	CASUARINA littoralis	BLACK SHE OAK	6m x 3m	-	-	-	5	-	-	26L x 2
Ec	EUCALYPTUS cinerea	ARGYLE APPLE	7m x 4m	-	1	3	-	-	-	76L x 3
Em	EUCALYPTUS melliodora	YELLOW BOX	12m x 6m	2	1	-	-	2	-	76L x 3
Ee	EUCALYPTUS sideroxydon	RED IRON BARK	12m x 7m	-	-	-	-	3	-	76L x 3
Ev	EUCALYPTUS viminalis	REBON GUM	15m x 6m	1	-	-	-	-	-	76L x 3
Ln	LEPTOSPERMUM nitidum	SHINY TEA TREE	3m x 3m	1	-	-	-	1	-	26L x 2
Mh	MELALEUCA hypericifolia	RED FLOWERING PAPER BARK	3m x 2m	4	1	-	-	-	-	26L x 2
Ml	MELALEUCA linifolia	SNOW IN SUMMER	7m x 4m	-	3	-	-	1	-	26L x 2

<b>SHRUBS</b>										
Dr	DIANELLA revoluta	BLUE FLAX LILY	1.5m x 1m	-	2	3	-	-	-	200 x 1
G	GREVILLEA 'SUPERB'	GREVILLEA	1m x 1m	2	16	-	-	7	4	200 x 1
Kp	KUNZEA parvifolia	VIOLET KUNZEA	1m x 1m	-	9	-	-	6	3	200 x 1
Lf	LEPTOSPERMUM flavescens	COMMON TEA TREE	2m x 1.5m	-	5	5	-	-	3	200 x 1
Lj	LEPTOSPERMUM juniperium	PRICKLY TEA TREE	1.5m x 1.5m	-	1	-	-	2	-	200 x 1
Md	MYOPORUM debile	SPRAWLING MYOPORUM	0.6m x 1m	-	-	5	-	4	-	200 x 1
Pt	PHORRUM tenax	NZ FLAX	2m x 2m	-	-	-	-	-	3	200 x 1
Sp	SPRENGELIA inornata	PINK SWAMP HEATH	0.5m x 0.5m	16	-	-	-	-	-	200 x 1
Xa	XANTHORHOEA abrocea	FOREST GRASS TREE	2m x 1m	-	-	-	-	-	-	200 x 1
Xb	XANTHORHOEA australis	AUSTRAL GRASS TREE	1.5m x 1m	-	-	-	-	-	-	200 x 1

<b>NATIVE GRASS</b>										
Do	DANTHONIA caespitosa	WALLABY GRASS	-	※	A	A	-	A	A	VT
Ee	ERAGROSTIS elongata	ELVERA LAVENDER GRASS	-	B	B	※	B	B	VT	
In	ISOLEPUS nodosa	KNOBBY CLUB RUSH	-	C	C	※	C	C	VT	
Lk	LOMANDRA longifolia 'KATRINUS'	SPINY MAT-RUSH	-	D	※	D	-	D	※	VT
Lt	LOMANDRA longifolia 'TANIKA'	SPINY MAT-RUSH	-	E	※	E	-	E	※	VT
Pa	PENNETUM alopecuroides	SWAMP FOX TAIL	-	F	※	F	-	F	※	VT
Pi	POA labillardieri 'ESKDALE'	BLUE TUSOCK GRASS	-	G	※	G	-	G	※	VT
Ta	THEMEDA australis	KANGAROO GRASS	-	H	※	H	-	H	※	VT

<b>GROUND COVER</b>										
Hv	HARDENBERGIA violacea	NATIVE VIOLET	-	-	-	-	-	-	30	140mm
Pp	PANDOREA pandorana	WONGA WONGA VINE	-	-	30	-	-	-	-	140mm
Kr	KENNEDIA rubicunda	DUSKY CORAL PEA	-	-	-	50	-	20	-	140mm

NOTE: PLANT SCHEDULE REFERS TO PLANTINGS ON THIS SECTION ONLY

**NATIVE GRASSES:**

VT DENOTES VRO-TUBE - SUPPLIER: ABULK  
LOT 3 CUPITTS LANE  
CLARENDON 2766  
PH: (02) 4577 6912

※ DENOTE SPECIES USED. SPECIES TO BE EVENLY MIXED IN 5M STRIPS EACH.

**PLANTING RATES FOR NATIVE GRASSES USING VRO-TUBE**

- A. 7 50M
- B. 15 50M
- C. 8 50M
- D. 4 50M
- E. 5 50M
- F. 8 50M
- G. 10 50M
- H. 5 50M

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Date: ..... 14/4/03 .....

Issue: ..... BT (Rev A) .....

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HOSKING MUNRO PTY. LTD.  
ARCHITECTS INTERIOR & LANDSCAPE DESIGNERS  
461 HARRIS ST ULTIMO NSW 2007  
PH 02 9560 1055 FAX 02 9592 8260  
EMAIL: hosmunro@ozemail.com.au



PROJECT		WOODLAWN BIOREACTOR PROJECT CRISP'S CREEK INTERMODAL			
DRAWING NAME		PLANTING ZONES			
SCALE 1:100	DRAWN K.V.	JOB NO. H06726	DWG. NO. WL05	REV. A	
DATE MAR '03					

NOTE: PLANT SCHEDULE REFERS TO PLANTINGS ON THIS SECTION ONLY

NATIVE GRASSES:  
V.T. DENOTES VIRO-TUBE - SUPPLIER: ABULK  
LOT 3 CLIPPTS LANE  
CLARENDON 2756  
PH (02) 4577 5912

☼ DENOTE SPECIES USED. SPECIES TO BE EVENLY MIXED  
IN 5M STRIPS EACH.

PLANTING RATES FOR NATIVE GRASSES USING VIRO-TUBE

- A. 7 SQM
- B. 15 SQM
- C. 5 SQM
- D. 4 SQM
- E. 5 SQM
- F. 6 SQM
- G. 10 SQM
- H. 5 SQM

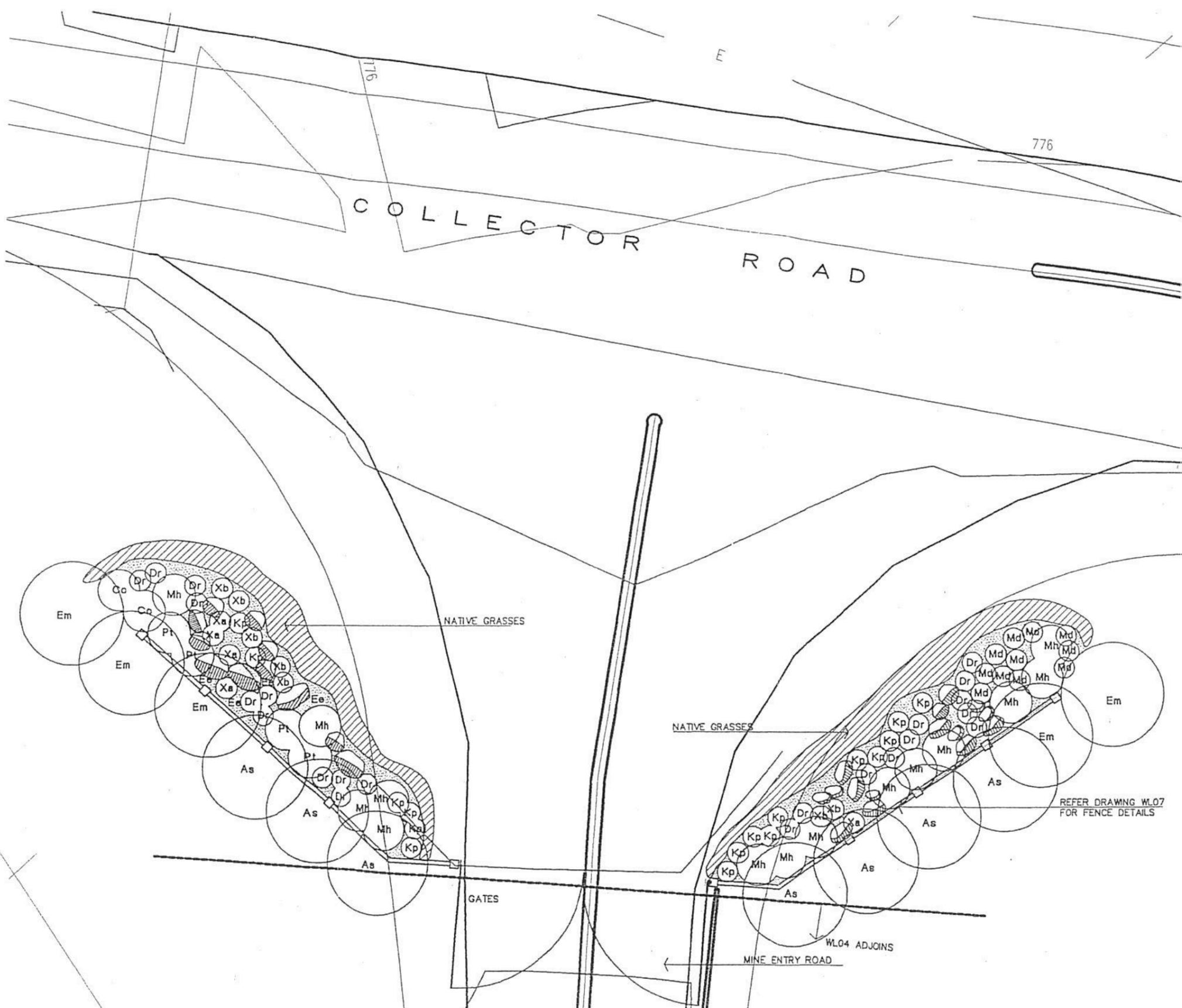


**PLANT SCHEDULE**

BOTANICAL NAME	COMMON NAME	ADJ. SIZE	NO.	SIZE	STAKING
<b>TREES</b>					
Ad ACACIA dealbata	SILVER WATTLE	5m x 4m	-	35L	x 2
Aa ANGOPHORA subvelutina	BROAD LEAVED APPLE	7m x 6m	7	75L	x 3
Bf BANKSIA integrifolia	COAST BANKSIA	6m x 4m	-	25L	x 2
Ba BANKSIA serrata	SAW BANKSIA	6m x 4m	-	25L	x 2
Co CALLISTEMON citrinus	CRIMSON BOTTLEBRUSH	3m x 2m	2	25L	x 2
Ci CASUARINA littoralis	BLACK SHE OAK	6m x 3m	-	25L	x 2
Ea EUCALYPTUS oleria	ARGYLE APPLE	7m x 4m	-	75L	x 3
Em EUCALYPTUS mellodora	YELLOW BOX	12m x 6m	6	75L	x 3
Es EUCALYPTUS sideroxydon	RED IRON BARK	12m x 7m	-	75L	x 3
Ey EUCALYPTUS viminalis	RIBBON GUM	10m x 8m	-	75L	x 3
Ln LEPTOSPERMUM nitidum	SHINY TEA TREE	3m x 3m	-	25L	x 2
Mh MELALEUCA hypericifolia	RED FLOWERING PAPER BARK	3m x 2m	14	25L	x 2
Ml MELALEUCA bursifolia	SHOW IN SUMMER	7m x 4m	-	25L	x 2
<b>SHRUBS</b>					
Dr DIANELLA revoluta	BLUE FLAX LILY	1.5m x 1m	22	200	x 1
G GREVILLEA 'SUPERB'	GREVILLEA	1m x 1m	-	200	x 1
Kp KUNZEA parvifolia	VIOLET KUNZEA	1m x 1m	15	200	x 1
Lj LEPTOSPERMUM flavescens	COMMON TEA TREE	2m x 1.5m	-	200	x 1
Ll LEPTOSPERMUM juniperium	PRICKLY TEA TREE	1.5m x 1.5m	-	200	x 1
Md MYOPORUM debile	SPRAWLING MYOPORUM	0.5m x 1m	11	200	x 1
Pt PHORMIUM tenax	NZ FLAX	2m x 2m	4	200	x 1
Sl SPRENGELIA inornata	PINK SWAMP HEATH	0.5m x 0.5m	-	200	x 1
Xa XANTHORRHOEA eborea	FOREST GRASS TREE	2m x 1m	6	200	x 1
Xb XANTHORRHOEA australis	AUSTRAL GRASS TREE	1.5m x 1m	7	200	x 1
<b>NATIVE GRASS</b>					
Da DANTHONIA caespitosa	WALLABY GRASS	-	-	-	-
Ea ERAGROSTIS elongata	ELVERA LAVENDER GRASS	-	70	140mm	-
In ISOLEPUS nodosa	KNOBBY CLUB RUSH	-	-	-	-
LK LOMANDRA longifolia 'KATRINUS'	SPINY MAT-RUSH	-	80	140mm	-
LT LOMANDRA longifolia 'TANKA'	SPINY MAT-RUSH	-	100	140mm	-
Pa PENNIBETUM alopecuroides	SWAMP FOX TAIL	-	-	-	-
PI POA labillardieri 'ESKDALE'	BLUE TUSOCK GRASS	-	100	140mm	-
Ta THEMEDA australis	KANGAROO GRASS	-	70	140mm	-
<b>GROUND COVER</b>					
Hv HARDENBERGIA violacea	NATIVE VIOLET	-	60	140mm	-
Pp PANDOREA pandorana	WONGA WONGA VINE	-	-	140mm	-
Kr KENNEDIA rubicunda	DUSKY CORAL PEA	-	50	140mm	-

REFER TO DRAWING WLO5 FOR PLANTING SCHEDULES FOR 5M PLANTING ZONES

BUSH ROCKS



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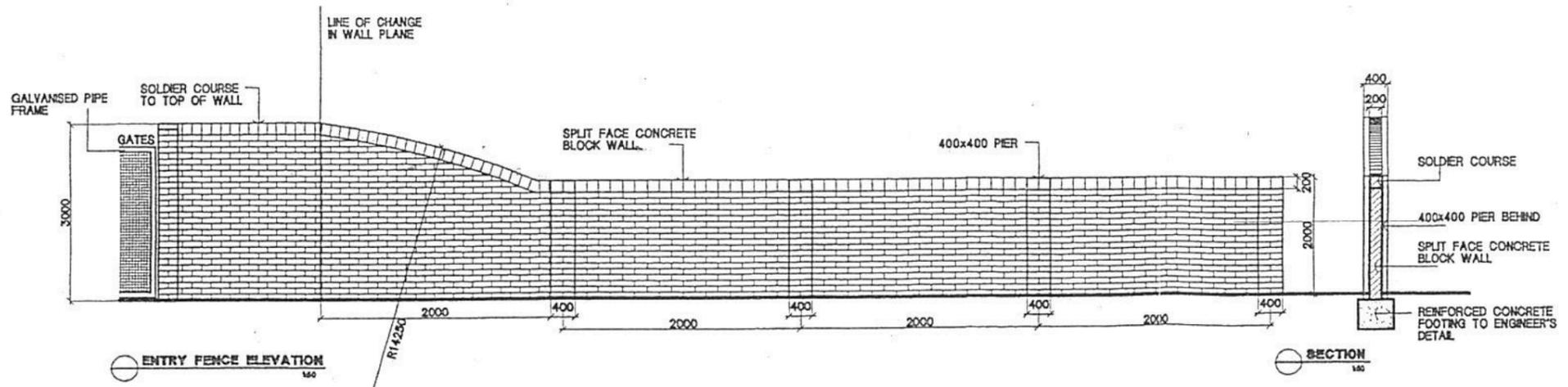
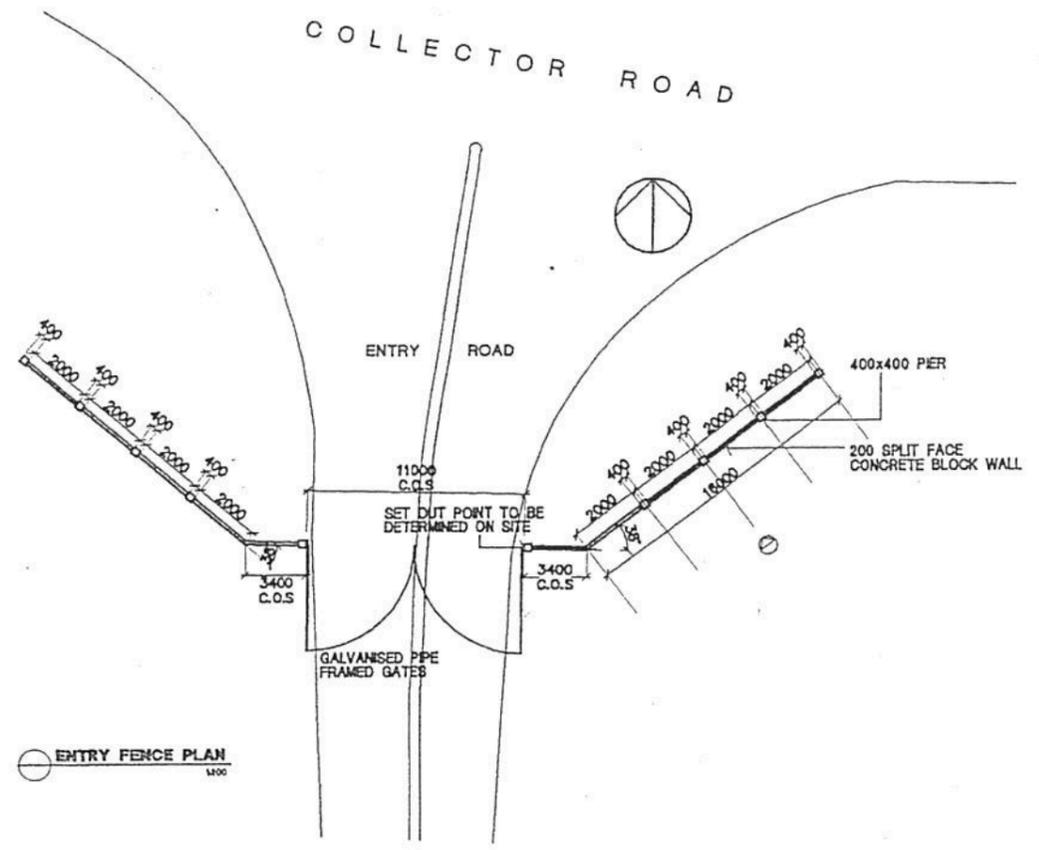
**HOSKING MUNRO**  
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ARCHITECTS INTERIOR & LANDSCAPE DESIGNERS  
451 HARRIS ST ULTIMO NSW 2007  
PH 02 9580 1055 FAX 02 9582 8280  
EMAIL hosmunr@ozemail.com.au



'A' ISSUED FOR TENDER

PROJECT	WOODLAWN BIOREACTOR PROJECT CRISP'S CREEK INTERMODAL		
DRAWING NAME	WOODLAWN MAIN ENTRY PLAN		
SCALE	1:100	DRAWN	MY
DATE	MAR '03	JOB NO.	HM726
		DWG. NO.	WLO6
		REV.	A

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 Date: 14/4/03  
 Issue: BT (Rev A)

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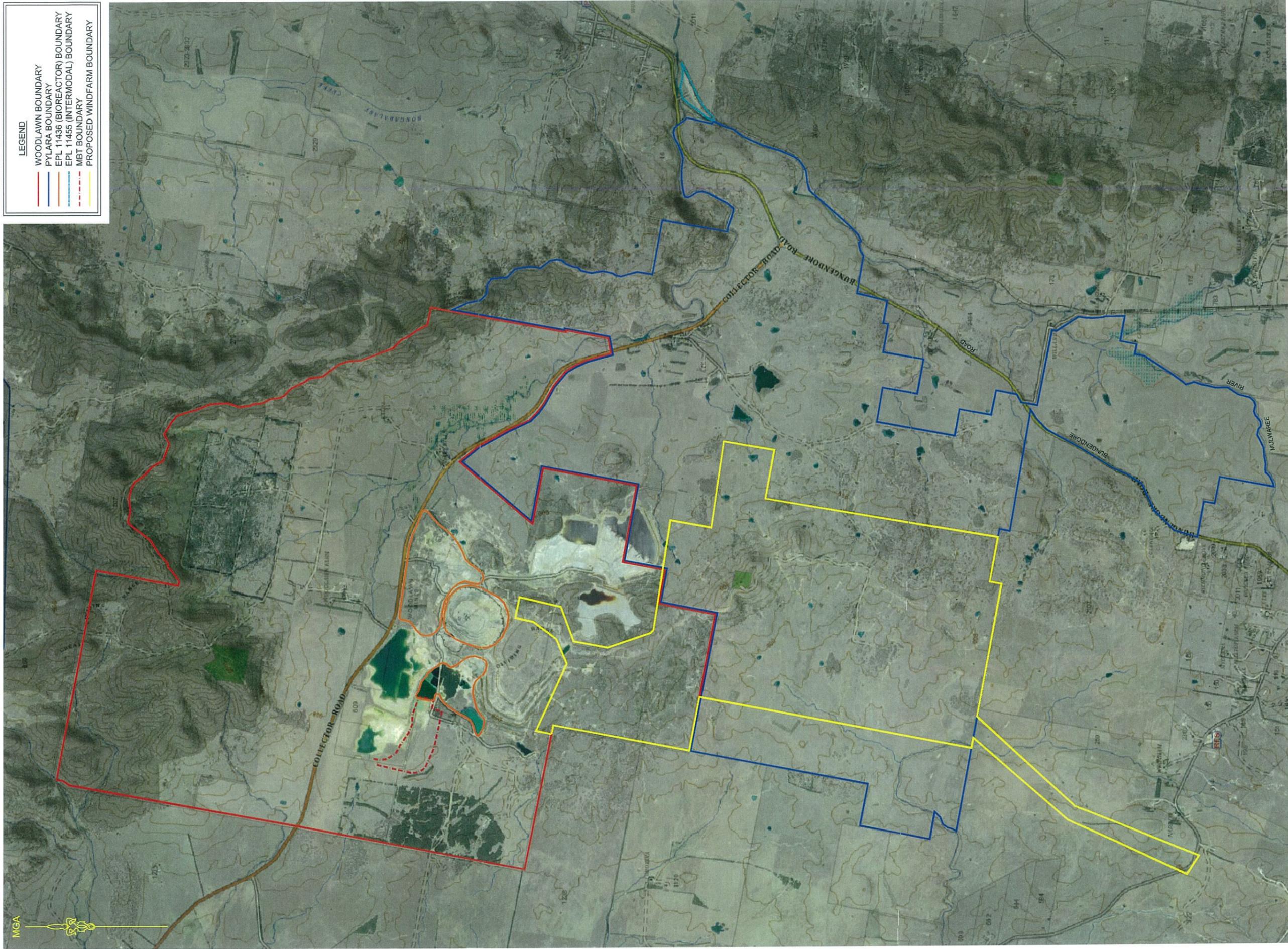
<b>HOSKING MUNRO</b> HOSKING MUNRO PTY. LTD. ARCHITECTS INTERIOR & LANDSCAPE DESIGNERS 481 HARRIS ST ULTIMO NSW 2007 PH 02 9550 1055 FAX 02 9552 2280 EMAIL h.munro@ozemail.com.au		PROJECT <b>WOODLAWN BIOREACTOR PROJECT</b> <b>CRISP'S CREEK INTERMODAL</b>
		DRAWING NAME <b>ENTRY FENCE - DETAILS</b>
SCALE 1:200 1:50 DATE MAR '03	DRAWN M.V. JOB NO 155726 DWG NO WL07	REV A

2013/03/04 12:33:18 PM

## **Appendix B – Bioreactor Boundaries Plan**

**LEGEND**

	WOODLAWN BOUNDARY
	PYLARA BOUNDARY
	EPL 11436 (BIOREACTOR) BOUNDARY
	EPL 11455 (INTERMODAL) BOUNDARY
	MBT BOUNDARY
	PROPOSED WINDFARM BOUNDARY



ISSUE	AMENDMENT	DATE	DRAWN	DATE	VEOLIA ENVIRONMENTAL SERVICES
	INITIAL ISSUE	22/09/2014			
A					PLAN SHOWING LICENCE AREA BOUNDARIES WOODLAWN BIOREACTOR, MBT, WINDFARM AND INTERMODAL COLLECTOR ROAD, TARAGO
					VEOLIA ENVIRONMENTAL SERVICES
					LandTeam Australia Pty Ltd 30 Monaghan Street Goulburn NSW 2560 Tel: (02) 4621 1333 Fax: (02) 4621 7238 www.landteam.com.au
					Scale 1:20000 0 250 500 750 1000 1250 Metres
					Copyright: Concepts and information contained within these drawings and related documents are the copyright of LandTeam Australia. All rights reserved. No part of these documents is to be reproduced without the prior written consent of LandTeam Australia.
					DATE: 22/09/2014 CONTOUR INTERVAL: 20m DWTUM: AHD
					ISSUE: A DRAWN: MK CHECKED: JK DWTUM: AHD
					16800-370