

MAJOR PROJECT ASSESSMENT: Dunloe Park Sand Project

Director-General's Environmental Assessment Report Section 75I of the *Environmental Planning and Assessment Act 1979* October 2008

4.4 Flora and Fauna

The flora assessment also identified that portions of the eastern and north eastern areas of the site are listed within SEPP 26 (Littoral Rainforest) and SEPP 14 (Coastal Wetlands) (see Figure 1). These areas would not be disturbed by the project, and would be **enhanced** through Ramtech's proposed enhancement strategy

Threatened Species and Impacts

The EA identifies 6 species occurring on the site identified as endangered or vulnerable under the *Threatened Species Conservation Act 1995*, including 3 fauna species (**Grey Headed Flying Fox, Koala and Little Bentwing Bat**) and 3 flora species (*Cryptocarya foetida*, *Syzygium moorei* and *Lepiderema pulchella*).

Ramtech proposes to revegetate and **enhance approximately 15 hectares** of the Dunloe Park property outside the areas to be disturbed by the proposed quarry.

The revegetation areas are located in the **eastern and northern areas** of the site (see Figures 2 and 5), adjacent to existing good quality vegetation and in proximity to listed SEPP 26 littoral rainforests and SEPP 14 wetlands.

The Department and the DECC support Ramtech's proposed enhancement and management measures. DECC noted that whilst it supports the monitoring program proposed by Ramtech, it was amenable to shifting the costs associated with fauna monitoring and the installation and monitoring of the nest boxes to revegetation and rehabilitation, which would further assist in **regional corridor linkages** and buffering of existing vegetation.

4.5 Rehabilitation, Land Form and Long Term Management

In terms of timeframes Ramtech has confirmed that proposed rehabilitation planting would be undertaken in three zones over a 15 year period (each zone taking 5 years). **Zone 1** would be **undertaken immediately** and over a 5 year period, zone 2 and 3 would follow in sequential order after completion of the previous zone (see Figure 5 for zone areas and staging).

4.6 Noise

Council raised some concern regarding potential noise impacts on the flying fox colony and habitat, located approximately 250m to 550m from the eastern boundary of the sand extraction area.

Proposed Sand Quarry – Dunloe Park, Pottsville

Submission of environmental assessment (EA) under Section 75H of the Environmental Planning and Assessment Act 1979

Planit Consulting Pty Ltd PO Box 1623 Kingscliff NSW 2487 17th September 2007.

1.10 Statement of Commitments and Mitigation Measures

Revegetation of nominated areas within the rehabilitation plan as attached under Appendix H to **strengthen potential habitat corridors**, extend the distribution of Swamp Sclerophyll and Littoral Rainforest environments and to extend the perimeter of the narrowest portions of the **eastern forest** to provide long-term mitigation against potential edge effects.

□ Incorporation of potential **foraging resources** for threatened fauna species within landscaping/revegetation areas including:

- *Allocasuarina littoralis*, *A. torulosa* for Glossy Black Cockatoos

- Flowering species (Eucalypts, Corymbians, Melaleuca, Banksia) for **flying fox/bat species**

- Littoral Rainforest fruiting species for Fruit-doves/Rainforest Pigeons
- Favoured Eucalypts for **Koalas**
- Installation of nest boxes within the existing vegetation communities.

3.5.1 Rehabilitation Plan

This landscaping will be carried out for the following reasons:

- To Rehabilitate selected areas within the overall Dunloe Park Land holding to consolidate and **enhance** the existing flora and fauna **corridors** to the **north and east** of the extraction areas.

3.5.3 Rehabilitation Species

A wide range of native species endemic to the area will be selected for the rehabilitation and buffer areas. In this regard **Rehabilitation Zone No.1** will be planted out with **eucalypts and melaleuca species** with an understorey of littoral rainforest species. The Rehabilitation Zones No. 2 and 3 will be based on a melaleuca forest with a littoral rainforest understorey.

5.3.5 State Environmental Planning Policy No. 71 – Coastal Protection (SEPP 71)

The subject site is within the coastal zone and therefore relevant provisions of this policy apply. The matters for consideration under Clause 8 of the Policy are addressed below:

i) Existing wildlife corridors and the impact of development on these corridors.

The proposal will involve the planting of substantial buffer areas and rehabilitation works, which will improve connections between vegetation areas and **enhance** their functioning as **wildlife corridors**.

PROPOSAL FOR SAND EXTRACTION ' DUNLOE SANDS PROJECT PROFILE ENVIRONMENTAL ASSESSMENT

**Jim Glazenbrook and Associates Pty. Ltd. Town planners and Development Consultants PO box 827
Murwillumbah Nsw 2489. January 2006**

5.0 Remediation and further use of the Site

The **remediation** of the site will begin within 12 months of the opening of the initial sand pit. Ramtech Pty Ltd is an environmentally conscious company and has aspirations of creating and enhancing areas for special rehabilitation. The lands to the east and south of the pits will be our main focus with lakes created by the sand extraction as the **centre piece** of aquatic **fauna and flora**.

The land will be strategically rejuvenated with the placement of the soil overburden of the lakes and then **forested** with native species, which **attract native fauna**. Further the forest **corridors from the north** will be extended to those of Dunloe Park along **Moobal Creek** as they extend to Warrick park Road in the south. The created entity in the future use may have tourist potential with passive recreation pursuits such as bush walking, bird watching canoeing dingy sailing with a **managed environmental park**.