



13 November 2019

Ms Genevieve Lucas
Senior Planning Officer, Resource Assessments
Department of Planning, Industry and Environment
320 Pitt Street
SYDNEY NSW 2001

Sent by email to:
genevieve.seed@planning.nsw.gov.au

Dear Genevieve,

Re: Brandy Hill Quarry Extension Project (SSD 5899) – Additional Ecological Surveys

I refer to the Biodiversity and Conservation Division comments on the Amended RTS dated 17 October 2019 (DOC19/870253-4). The comments refer to required pre-clearance surveys and the biodiversity offsetting obligations for the Project.

BCD notes that the need for additional targeted ecological survey for the following species prior to any vegetation clearing.

- Scrub Turpentine (*Rhodamnia rubescens*) and Native Guave (*Rhodomyrtus psidioides*) within HU798 (PCT 1584), HU812 (PCT 1598), HU932 (PCT 1718) and ecotonal boundaries of these communities.
- Rusty Greenhood Orchid (*Pterostylis chaetophora*) during the species' flowering period within the 6.08 ha extended project area

While BCD had requested pre-clearance surveys, Hanson have elected to pre-emptively survey for these species to avoid any doubt that this component of the application had not been thoroughly assessed. I have attached to this letter a brief report prepared by Biosis Pt Ltd that presents the outcomes of the surveys undertaken on 15 October 2019.

In summary, Biosis did not identify any of the targeted species within the area surveyed and concluded that amendment to the biodiversity offsetting obligations of the Project (as presented in the Updated Final Biodiversity Assessment Report – Biosis, 2019) were not required.

Additional comments are provided regarding the quantum of assessed offsetting obligations for the Koala (*Phascolarctos cinereus*) and for vegetation within the Quarry Site. Hanson agrees with the comment in relation to consent conditions referring to Koala species credits required to offset the impact to this species and notes this comment is consistent with the Amended RTS. The clerical error in reference to the staged offsetting requirements is also noted. The following tables present the staged offsetting obligations for the Project, adjusted to be consistent with Table 8 of the Amended RTS that presents the total offsetting obligations for the Project.

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Table 1
Offset Stage 1 Credit Requirements

Offset Credit Type	Credits Required
HU814 - Spotted Gum - Red Ironbark - Narrow-leaved Ironbark - Grey Box shrub-grass open forest of the lower Hunter	434
HU816 - Spotted Gum - Narrow-leaved Ironbark shrub - grass open forest of the central and lower Hunter	647
HU798 - White Mahogany - Spotted Gum - Grey Myrtle semi-mesic shrubby open forest of the central and lower Hunter Valley	96
Koala (<i>Phascolarctos cinereus</i>)	488
Source: Biosis (2019a) – Modified after Table 37	

Table 2
Offset Stage 2 Credit Requirements

Offset Credit Type	Credits Required
HU814 - Spotted Gum - Red Ironbark - Narrow-leaved Ironbark - Grey Box shrub-grass open forest of the lower Hunter	840
HU816 - Spotted Gum - Narrow-leaved Ironbark shrub - grass open forest of the central and lower Hunter	440
HU806 - Spotted Gum - Red Ironbark - Grey Gum shrub - grass open forest of the Lower Hunter	15
HU812 - Forest Red Gum grassy open forest on floodplains of the lower Hunter	111
HU798 - White Mahogany - Spotted Gum - Grey Myrtle semi-mesic shrubby open forest of the central and lower Hunter Valley	7
Koala (<i>Phascolarctos cinereus</i>)	628
Source: Biosis (2019a) – Modified after Table 38	

Table 3
Offset Stage 3 Credit Requirements

Offset Credit Type	Credits Required
HU814 - Spotted Gum - Red Ironbark - Narrow-leaved Ironbark - Grey Box shrub-grass open forest of the lower Hunter	7
HU816 - Spotted Gum - Narrow-leaved Ironbark shrub - grass open forest of the central and lower Hunter	405
HU932 - Swamp Mahogany - Flax-leaved Paperbark swamp forest on coastal lowlands of the Central Coast	46
HU806 - Spotted Gum - Red Ironbark - Grey Gum shrub - grass open forest of the Lower Hunter	48
Koala (<i>Phascolarctos cinereus</i>)	226
Source: Biosis (2019) – Modified after Table 39	

I trust that the above and attached resolves the comments from BCD on the Amended RTS and broader Project assessment. Should you have any further queries, please feel free to address them to myself or to Andrew Driver or Belinda Pignone at Hanson.

Yours sincerely



Nick Warren
Principal Environmental Consultant

Enclosed: Attachment 1 – Brandy Hill Quarry Expansion Targeted Threatened Flora Survey –
6 November 2019

Copy: Hanson Construction Materials Pty Ltd
Biodiversity Conservation Division

