

KNAW QUARRY, FOSTERS ROAD, DYSART

SUPPLEMENT TO THE EER



APPLICANT: KENT NOBLE AND ANITA WEDD

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Van Diemen Consulting Pty Ltd

PO Box 1
New Town, Tasmania

T: 0438 588 695 E: rwbarnes73@gmail.com

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Document Status

REV	Author	Review	Date
1	R Barnes C McCoull	R Barnes	20-7-2022
1	R Barnes C McCoull	K Noble and A Wedd	20-7-2022

PART A – BACKGROUND

A Supplement was formally requested by the Environment Protection Authority for DA2021/180 on 6 July 2022.

The EPA advised in the Supplement request

‘...that the proposed activity may not meet daytime noise limits at R2 unless the proposed noise barriers are suitably located and the minimum bund height of 3m is met to screen the main noise generating equipment and operations at all stages of the mining plan period. Ensuring this matter is adequately addressed will be essential before the Board can consider approving this proposed development.

Revised figures were requested to demonstrate all noise barriers (bunds) will extend at least 3m horizontally beyond noise generating equipment and are 3m above each noise source height at all stages of the quarry development.’

This Supplement provides revised figures, and a new figure, to address the noise attenuation services required by bunds at the Quarry.

A replacement Table 5 is also provided here to reflect a change management measure that relates to noise attenuation bunds.

PART B – ADDITIONAL OR NEW INFORMATION

B.1 REPLACEMENT AND NEW FIGURES

The following figures have been replaced or are new from the EER dated 10 May 2022.

Figure Number	Nature of change or alteration
Figure B-5	Shows altered bunding for noise attenuation, shows cross-section through bund relative to the Stockpile and Crushing Pad.
Figure B-6	
Figure B-7	
Figure B-8	
Figure B-9	
Figure B-16A	Renumbered figure. Was Figure B-16 in the EER. No changes made to figure content
Figure B-16B	New figure. Shows additional bund size, Stockpile and Crushing Pad and the Mining Lease relative to the sensitive use referred to as R2 by the EPA.

B.2 REPLACEMENT MANAGEMENT MEASURES

Table 5 attached replaces the Table 5 in the EER dated 10 May 2022. The green highlighted cell indicates the modified management measure.

Table 1. Management Measures for Knaw Quarry

No.	Description	Timeframe	EER Reference
1	<p>Roads within the boundary of the premises will be watered or sealed to minimise the risk of environmental nuisance. Trucks will utilise proven dust control measures such as tarpaulins, load dampening when travelling by public roads and carrying loads containing a significant quantity of material that passes a 4-millimetre sieve.</p>	Ongoing from project commencement	C.1 AIR EMISSIONS - DUST
2	<p>Standard industry practice for dust control will be applied –</p> <ul style="list-style-type: none"> • Raw material to have a suitable water content level prior to crushing and/or to utilise the installed sprayers on the output chute to minimise dust emissions from an otherwise dry product. Water will be accessed from the sediment basin or obtained with a dedicated water tanker. • Establish grass/vegetative cover on bare soil areas to minimise wind erosion. 		
3	A sediment pond of 200 m ³ capacity (a pond surface area of at least 270 m ²) will be established to receive all surface water flows from the Quarry disturbed area. The pond will be cleaned out every 5 years to maintain capacity.	Prior to the opening of the extraction face	C.2 WATER QUALITY (SURFACE, DISCHARGE AND GROUNDWATER)
4	No chemicals, fuels or oils will be stored within the pit overnight and refuelling of equipment will be carried out using a mobile tank on a trailer or by a fuel pod transported in a 4WD utility.	Ongoing from project commencement	
5	Cut-off drains and drains around and internal to the Quarry will be maintained and additional drains constructed where required to direct catchment runoff around the Quarry.		
6	Access road drains, culverts, spoon-drains, and other water shedding devices will be checked quarterly and maintained as required to minimise sediment release into stormwater.		

7	Sediment accumulation rates in the sediment ponds will be monitored and the maintenance program revised as required – conducted quarterly. Accumulated sediment will be reused as part of the saleable product or for application onto disused areas as part of site rehabilitation.		
8	Hours of operation are to be restricted to 0700 to 1900 hours, Monday to Friday, 0800 to 1600 hours, Saturdays, and No operations on Sundays or public holidays (those gazetted statewide).	Ongoing from project commencement	
9	Noise attenuating bunds will be installed using soil and other earth-based materials sourced from the Land. All noise barriers (bunds) will extend at least 3m horizontally beyond noise generating equipment and are 3m above each noise source height at all stages of the quarry development– see Figures B5-B-9, Figure B-16B. The bund will be covered in pasture grass and maintained for the life of the Quarry.	Within the first 3 months of the activity	C.3 NOISE EMISSIONS
10	Access tracks and haul roads will be well maintained to prevent corrugation that contributes to truck noise, and truck drivers should be encouraged, where possible, to use access roads which have the least impact on the community.	Ongoing from project commencement	
11	No machinery servicing, except for emergency repairs or service requirements, will be conducted within the quarry. Wastes generated from machinery repairs will be disposed of at a permitted refuse disposal site.		
12	General refuse (e.g., food wrappers) will be collected in waste bins provided on-site for general refuse.	Ongoing from project commencement	C.4 WASTE
13	Redundant crushing consumables (e.g., screens, miscellaneous parts) will be removed for disposal/recycling.		
14	Weed spraying chemicals will be handled, used, and disposed of in accordance with the manufacturer’s directions and relevant regulations.		
15	When in the Quarry, fuel and oil containers will be contained in double skinned/bunded pods fitted with a trigger hose with automatic shut off function to avoid a large spillage. They will be located at least 10 m from any drain and the sediment pond and will be bunded (moveable bunds) to a capacity at least 1.5 times the volume of the container.	Ongoing from project commencement	C.5 ENVIRONMENTALLY HAZARDOUS GOODS

16	One hydrocarbon spill kit will be stored at the Quarry to use in the event of a spillage and will be replaced as and when required.		
17	The management approach for internal road use is – <ul style="list-style-type: none"> • Undertake education and awareness training for truck drivers accessing the Quarry, and • Limit internal road speed to 20 km/hr from dusk to dawn. 	Ongoing from project commencement	C.7 NATURAL VALUES
18	A Weed and Pathogen Management Plan will be developed and implemented as part of the quarry operation guided by the Weed and Disease Planning and Hygiene Guidelines - Preventing the spread of weeds and diseases in Tasmania (Department of Primary Industries, Parks, Water and Environment, 2015).	WPMP submitted to EPA within 60 days of permit being granted	C.6 WEEDS, PESTS AND PATHOGENS
19	A Weed Spraying Program will be developed in consultation with a weed spraying contractor who will implement the program.	Ongoing from the EPA approval of the WPMP	
20	Heavy machinery will be brought into the quarry in a clean condition; free of weed propagules, clods of dirt and vegetative matter.	Ongoing from project commencement	
21	If dust is observed to be creating a nuisance, the Proponent will use dust suppression techniques until such time as the adverse weather conditions subside.		
22	Sediment traps will be monitored to ensure the total capacity of the impoundment is not reduced by more than half. If accumulated sediment is excessive, the trap will be cleared out and the spoil set aside with overburden to be blended with product or used in future rehabilitation works.	Ongoing from project commencement	C.9 MONITORING
23	'Progressive rehabilitation' will apply at the quarrying operation for those areas that have been quarried and are no longer needed or used for the operation of the quarry.	Ongoing from project commencement	C.10 DECOMMISSIONING

24	In the event of permanent closure of the facility prior to complete extraction of the resource a detailed Decommissioning and Rehabilitation Plan (DRP) will be developed and submitted to the EPA for approval.	DRP submitted to EPA for approval within 60 days of scheduled permanent closure	AND REHABILITATION
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ATTACHMENTS

ATTACHMENT 1 REPLACEMENT AND NEW FIGURES

KNAW QUARRY

ENVIRONMENTAL EFFECTS REPORT (EER)

FIGURE B-5: MINE PLAN (INITIAL QUARRY ACCESS DEVELOPMENT) (0 TO 3 MONTHS)

TASMAP: ELDERSLIE 5028

LGA: SOUTHERN MIDLANDS

NOTE: QUARRY VOLUME 11,000M³ PA

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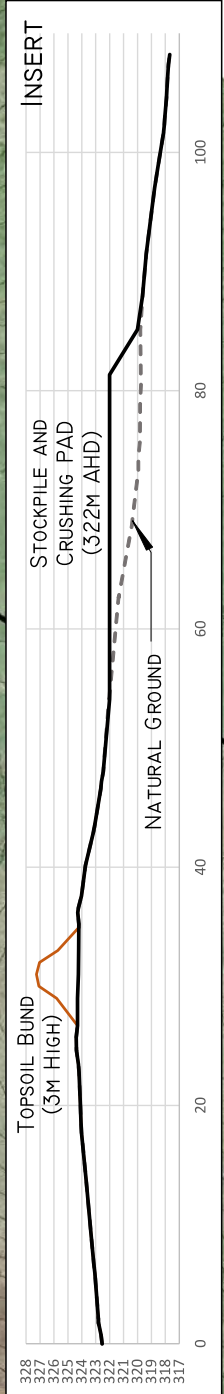
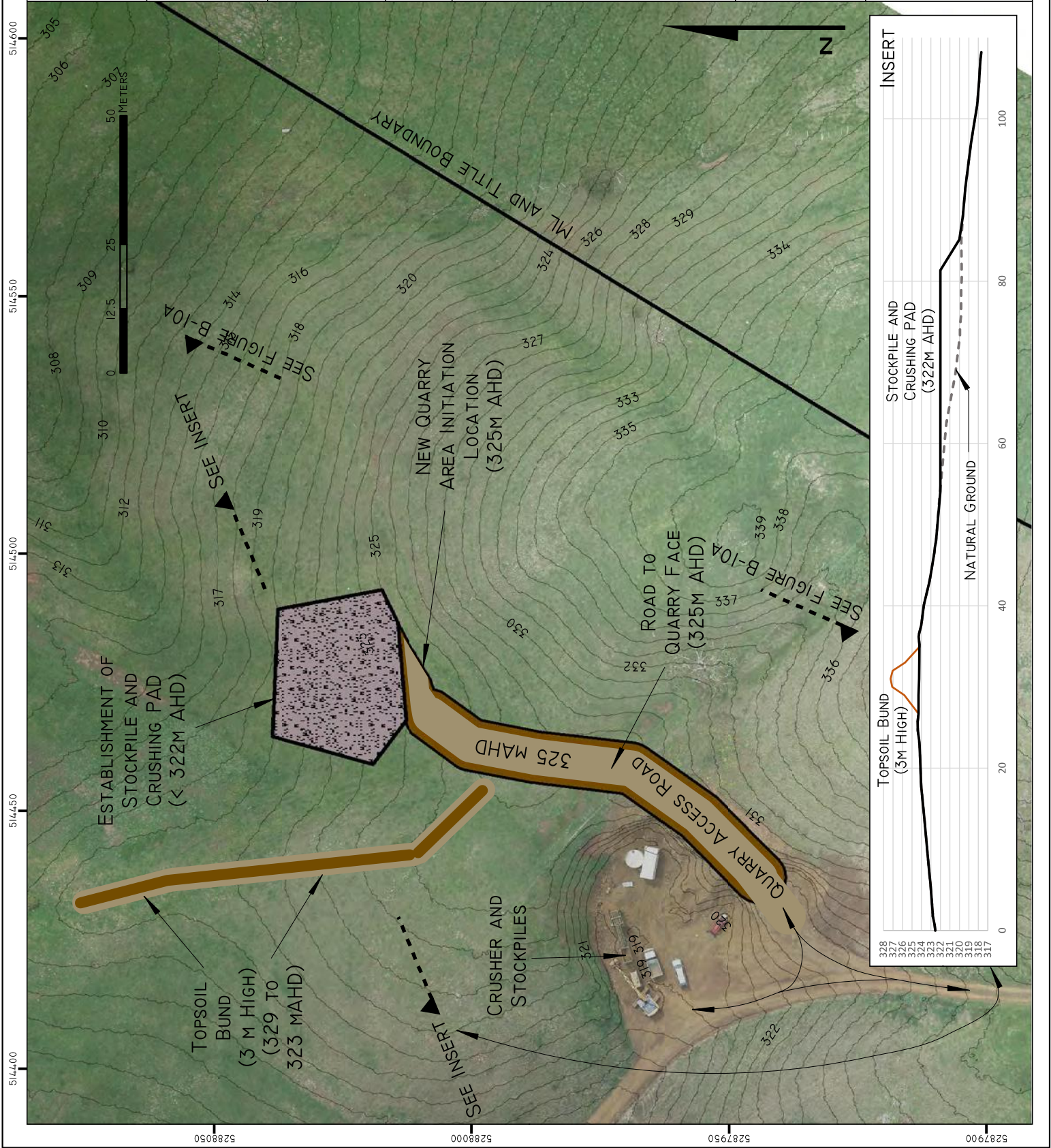
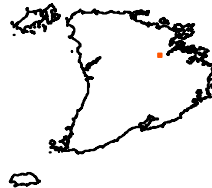


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KNAW QUARRY

ENVIRONMENTAL EFFECTS REPORT (EER)

FIGURE B-6: MINE PLAN
(3 MONTHS TO YEAR 1)

TASMAP:
ELDERSLIE
5028

LGA:
SOUTHERN
MIDLANDS

NOTE:
QUARRY VOLUME
11,000M³ PA

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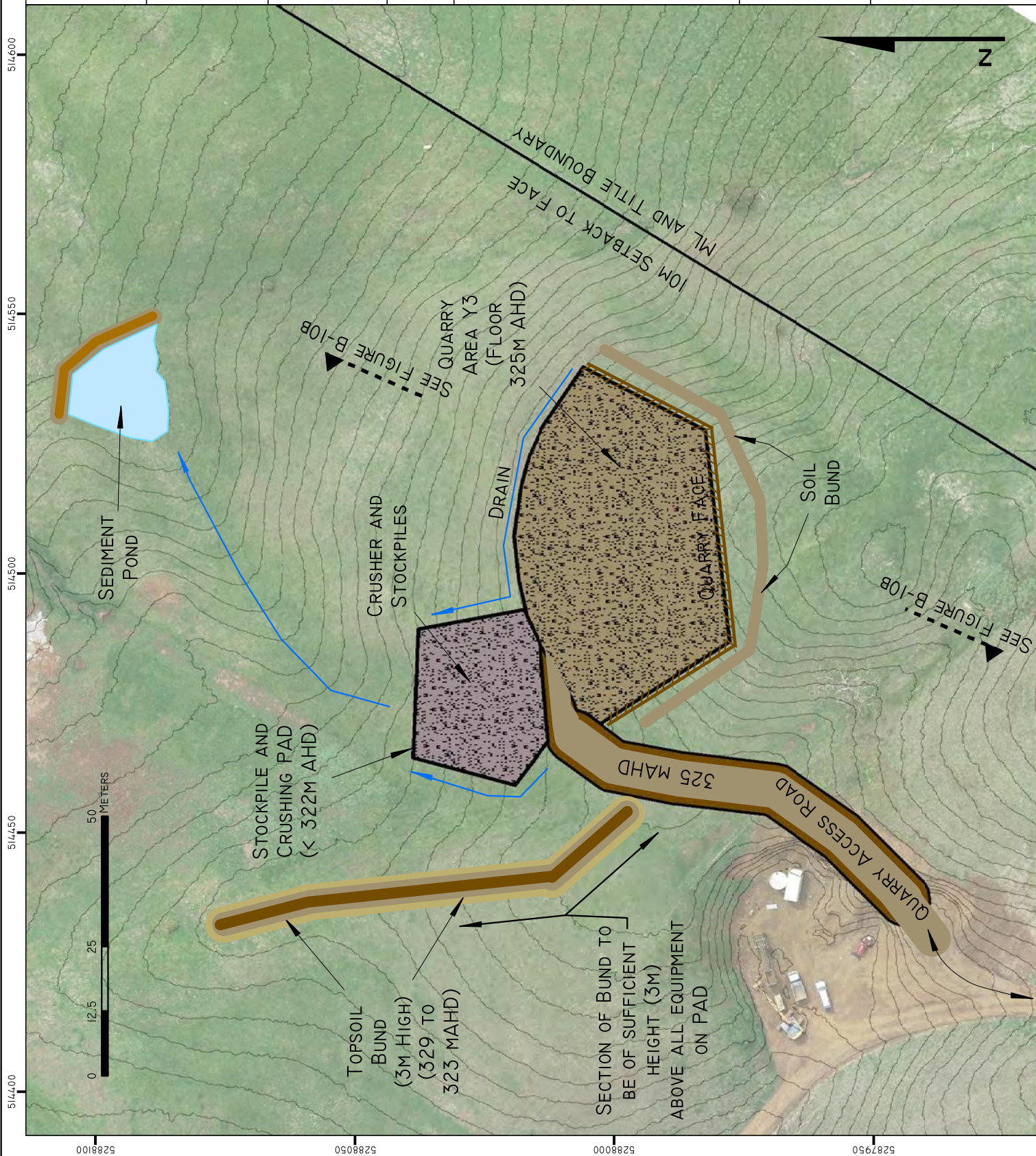
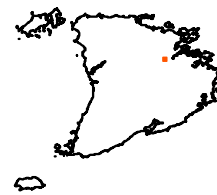


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KNAW QUARRY

ENVIRONMENTAL EFFECTS REPORT (EER)

FIGURE B-7: MINE
PLAN
(TO YEAR 2)

TASMAP:
ELDERSLIE
5028

LGA:
SOUTHERN
MIDLANDS

NOTE:
QUARRY VOLUME
11,000M³ PA

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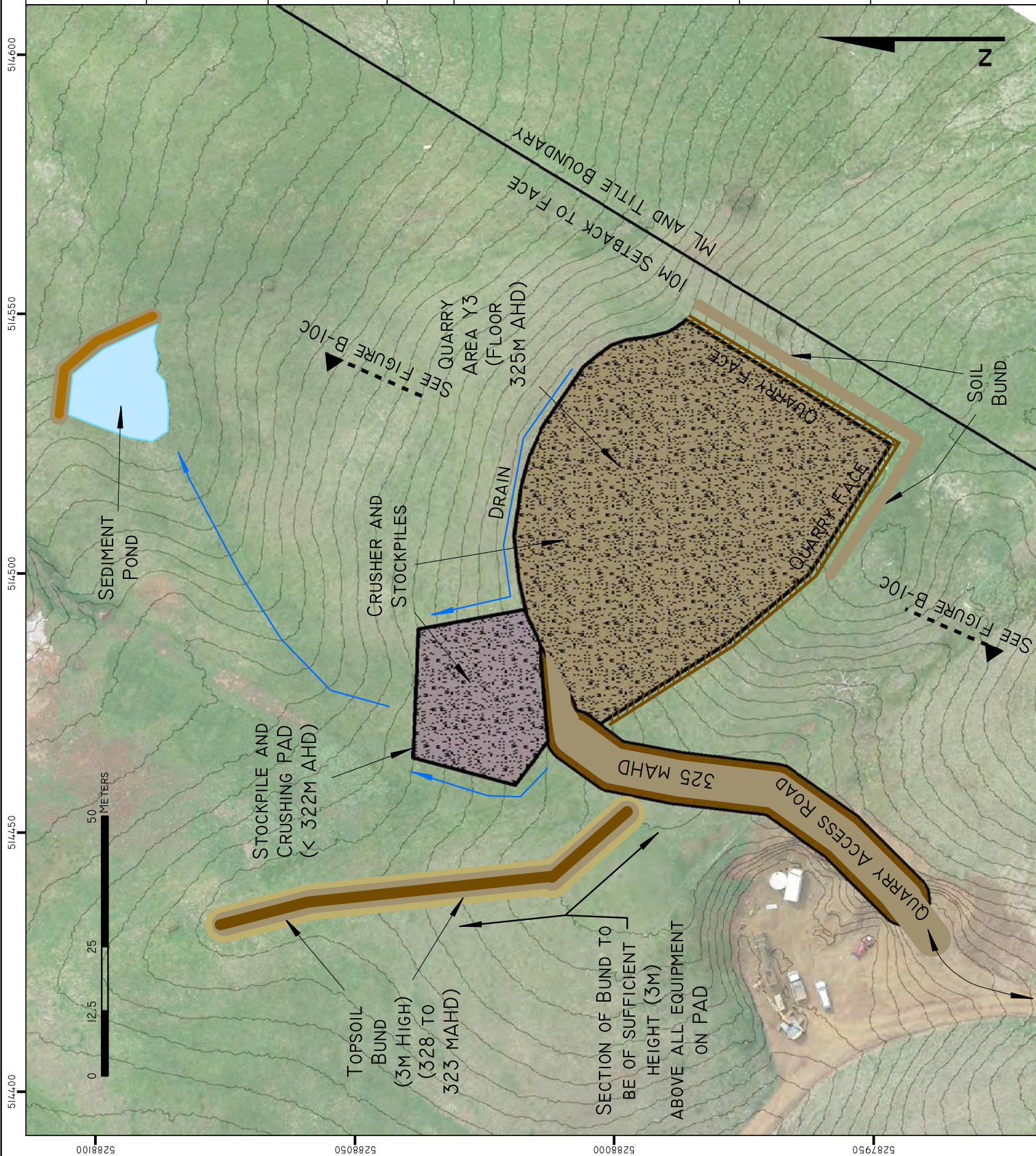
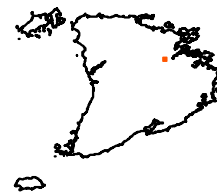


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KNAW QUARRY

ENVIRONMENTAL EFFECTS REPORT (EER)

FIGURE B-8: MINE
PLAN
(TO YEAR 3)

TASMAR:
ELDERSLIE
5028

LGA:
SOUTHERN
MIDLANDS

NOTE:
QUARRY VOLUME
11,000M³ PA

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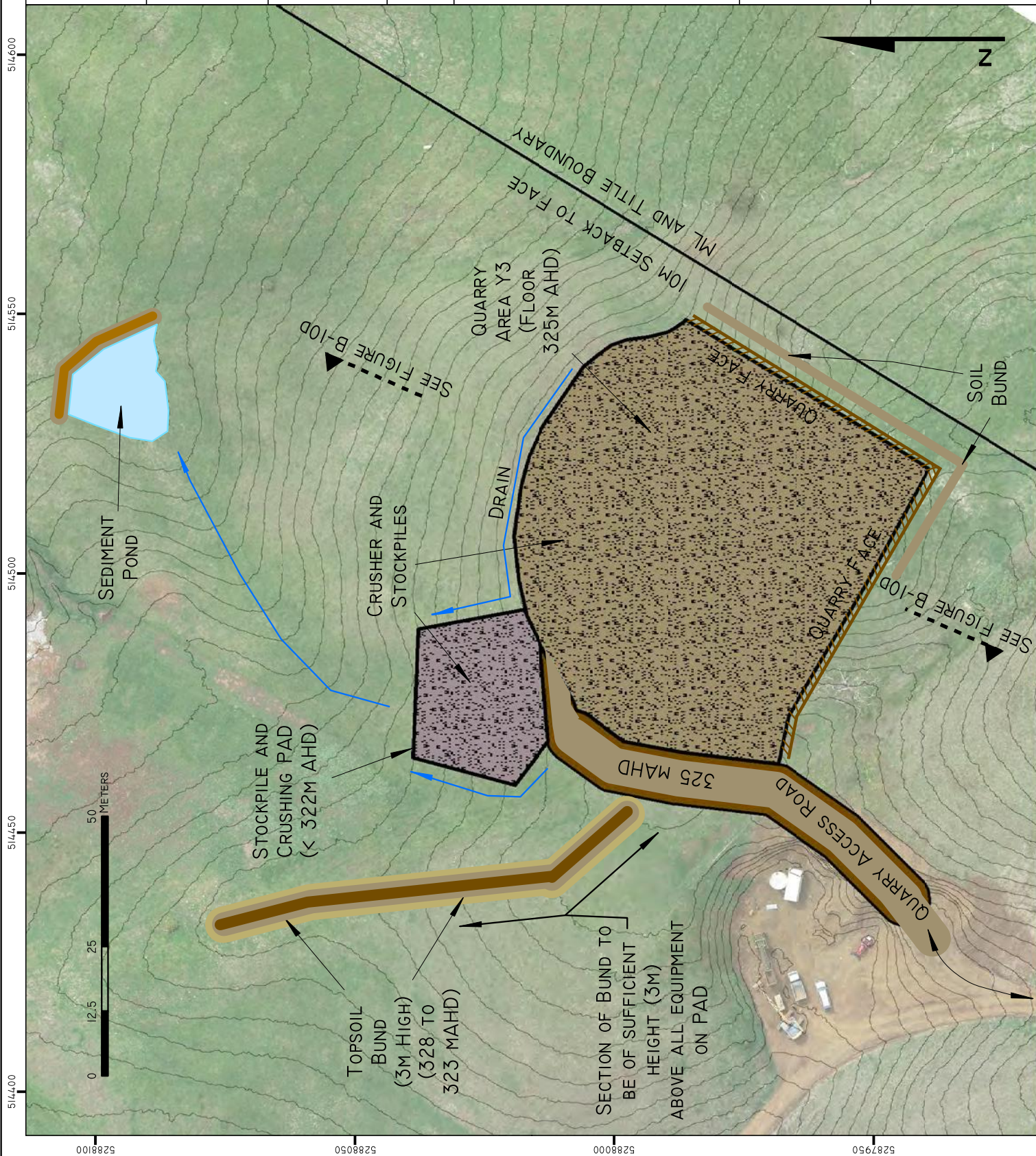
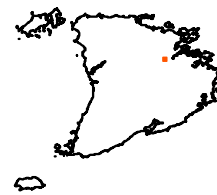


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KNAW QUARRY

ENVIRONMENTAL EFFECTS REPORT (EER)

FIGURE B-9: MINE
PLAN
(TO YEAR 5)

TASMAP:
ELDERSLIE
5028

LGA:
SOUTHERN
MIDLANDS

NOTE:
QUARRY VOLUME
11,000M³ PA

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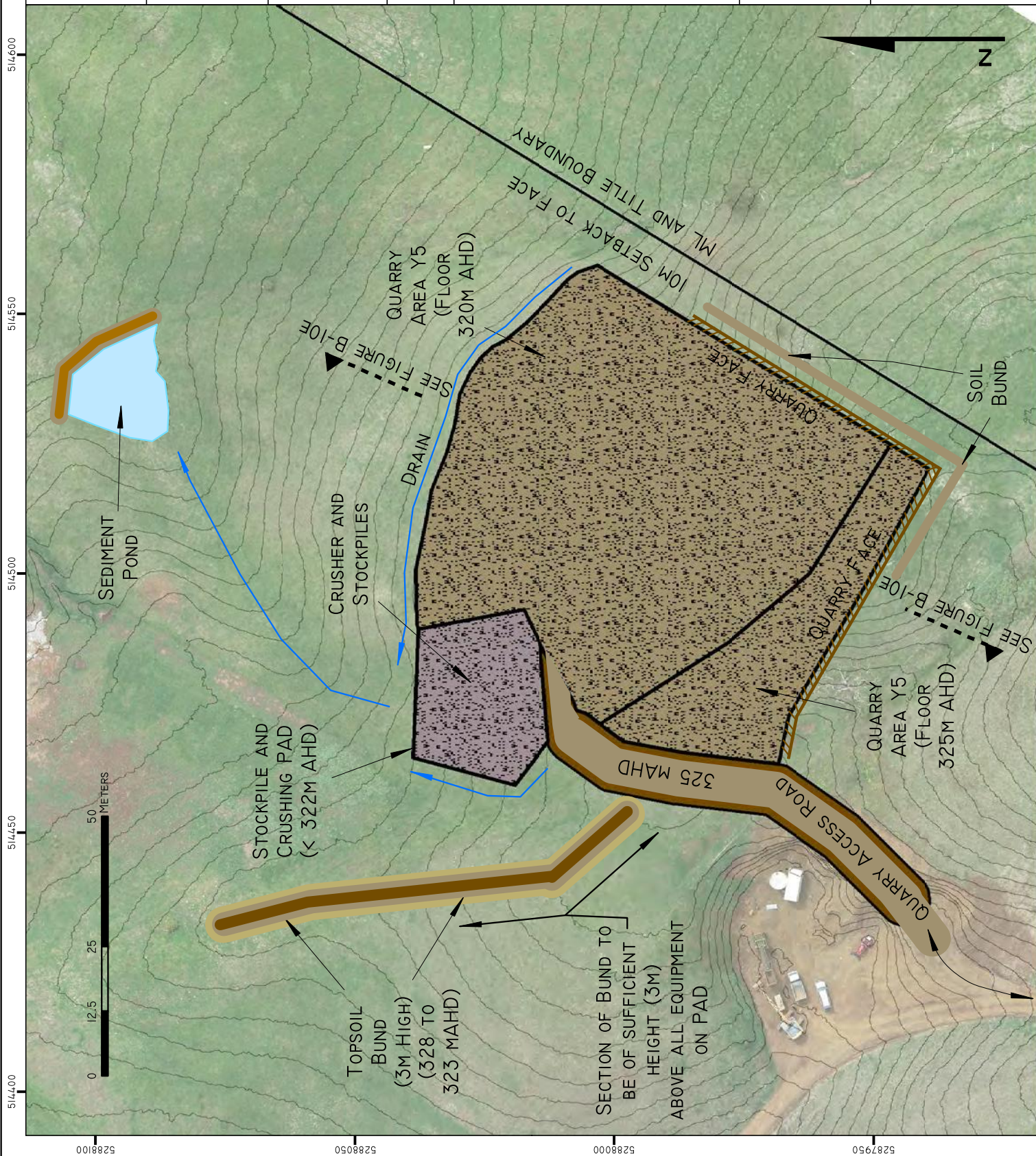
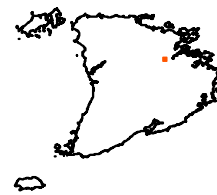


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KNAW QUARRY

ENVIRONMENTAL EFFECTS REPORT (EER)

FIGURE B-16A: NEAREST RESIDENCES FROM ACTIVITIES AT KNAW QUARRY

TASMAP:
ELDERSLIE
5028

LGA:
SOUTHERN
MIDLANDS

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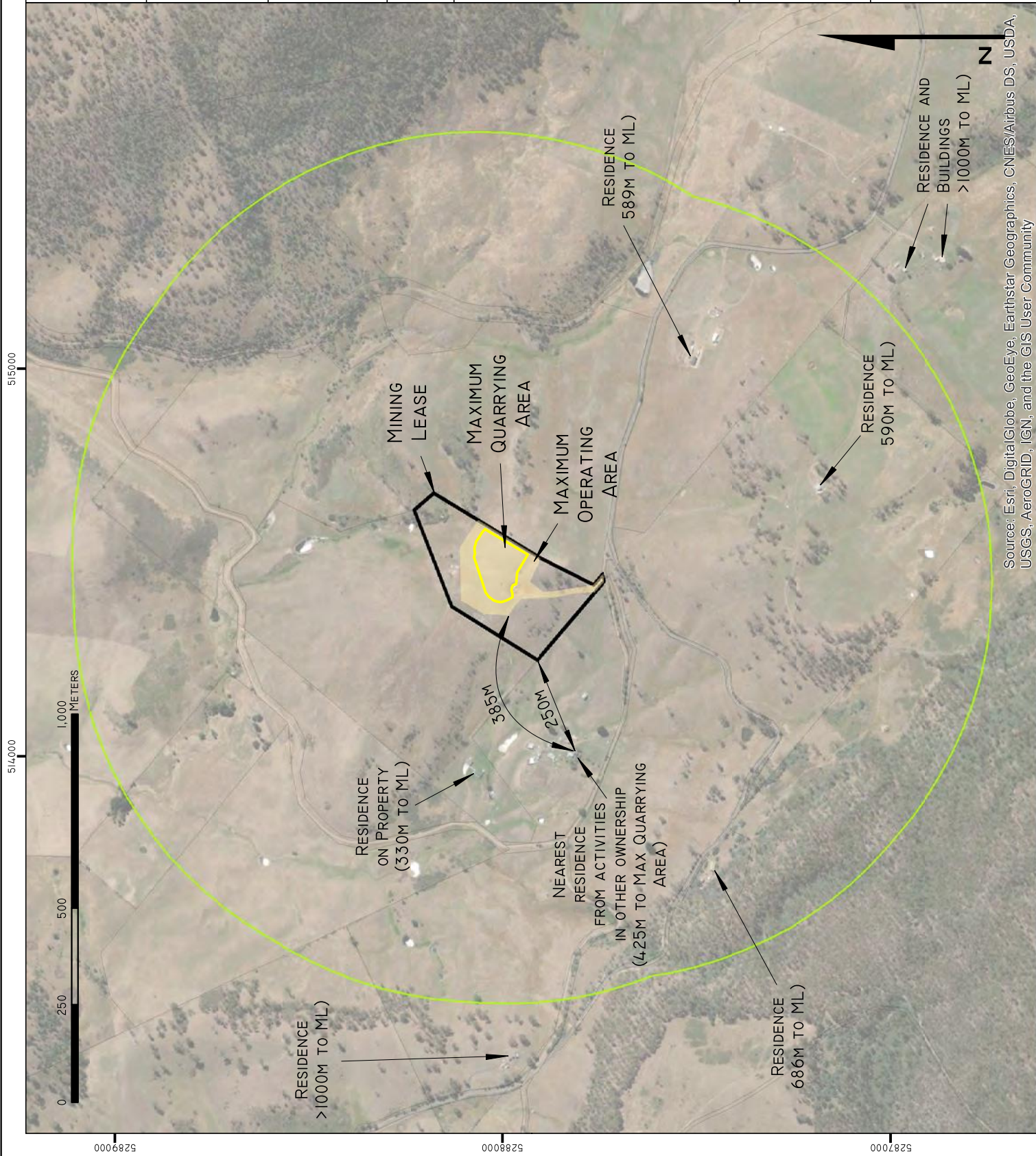
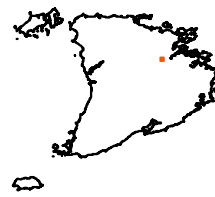


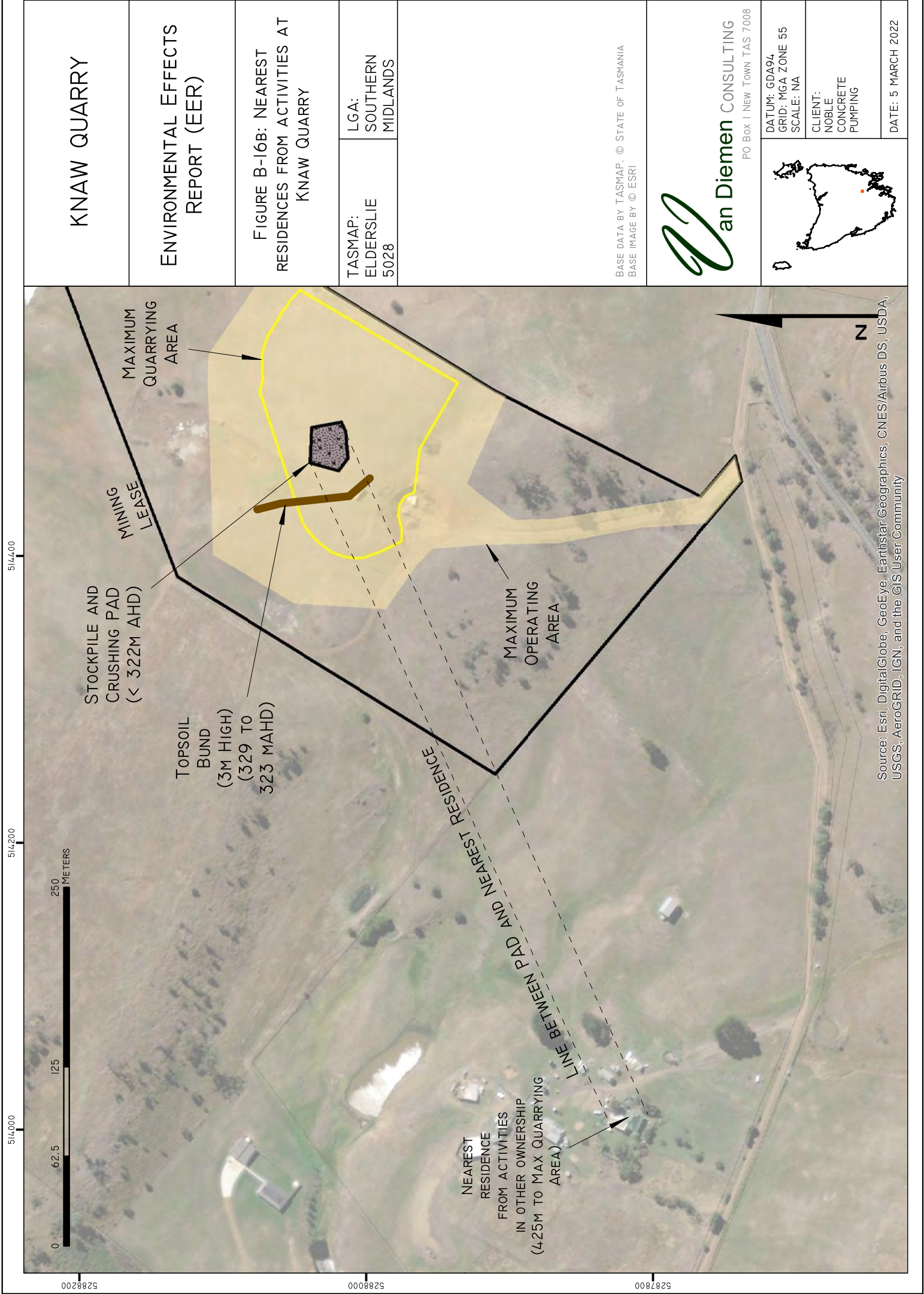
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KNAW QUARRY

ENVIRONMENTAL EFFECTS REPORT (EER)

FIGURE B-16B: NEAREST RESIDENCES FROM ACTIVITIES AT KNAW QUARRY

TASMAP:
ELDERSLIE
5028

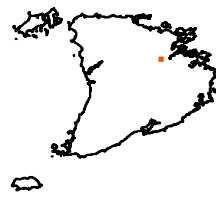
LGA:
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