

Italia Stone Group
Proposed Hard Rock Quarry,
Lot 800 Pruden Road, Whitby. EPA Assessment Number 2160

PROPOSAL CONTENT DOCUMENT

Amended 1 February 2025

Table 1: General Proposal Content Description

Proposal Title	Hard Rock Quarry, Lot 800 Pruden Road, Whitby
Proponent Name	Italia Stone Group
Assessment Number	2160
Short Description	<p>A hard rock quarry is proposed to be located on the north eastern part of Lot 800 Pruden Road, Whitby, by Italia Stone Group.</p> <p>The proposed quarry sits on the southern side of Manjedal Brook near the top of the Darling Scarp in a position where it is almost totally hidden by the natural landscape.</p> <p>The proposed hard rock quarry is to extract 50,000 to 100,000 tonnes of hard rock per year, possibly rising to 200,000 tonnes per year after 5 years. The life of the proposed excavation is 60 years.</p> <p>Most of the product produced will be large armour rock (2 – 10 tonne blocks) for the construction of coastal works and harbours, with only small amounts of rock aggregates.</p> <p>A small crushing and screening area and stockpile areas are proposed using mobile processing plant.</p> <p>All rock products will be used and there will be no tailings dumps required.</p> <p>Stormwater will be collected and fed to two detention basins from which water for dust suppression will be drawn. Excess stormwater will be fed through detention basins to Manjedal Brook.</p> <p>Access will be along Pruden Road, which will be upgraded, and then an access road along the western side of Lot 800.</p>

Table 2: Proposal Content Elements

Physical Elements				
Physical Element	Location/ description	Existing Proposal extent, capacity or range	Proposed max extent, capacity or range	Combined maximum extent, capacity or range
Development Envelope	Lot 800 Pruden Road, Whitby. Figure 1.	Not specified	The Development Envelope is the same as the Proposal Footprint.	23.03 ha
Proposal Footprint	Lot 800 Pruden Road, Whitby. Figure 2.	Disturbance footprints totaling 18.0 ha in a development envelope of 20.5 ha. The development envelope did not include the existing pavement of Pruden Road.	Proposal Footprint totaling 23.03 ha. No change to the pit, processing and stockpile total area. The existing Pruden Road gravel and bitumen pavement of Pruden Road is included within the Proposal Footprint and a second stockpile area and weighbridge are added in pasture on the access road on Lot 800.	23.03 ha
Clearing	Figures 1 and 6	12.8 ha of clearing of parkland pasture on Lot 800 and 0.5 ha of native vegetation along Pruden Road within the 20.5 hectare Proposal Footprint.	12.8 ha of clearing of parkland pasture on Lot 800 and 0.6 ha of native vegetation along Pruden Road within the 23.03 ha Proposal Footprint. The area of trees to be cleared has been measured with the remaining ground being pasture. The change from 0.5 ha to 0.6 ha results from the inclusion of sightlines to South Western Highway. The Proposal Footprint including Lot 800 and all of Pruden Road reserve were assessed for flora/vegetation and cockatoo habitat trees by PGV Environmental 2018 and 2020 and Terrestrial Ecosystems 2020.	12.8 ha of clearing of parkland pasture on Lot 800 and 0.6 ha of native vegetation along Pruden Road within the 23.03 ha Proposal Footprint.
Pit – Quarry elements: Quarry faces, benches, haul road	Figure 2 Compare Figures 2 and 9	11.56 hectares in two stages.	10.79 ha pit in one stage. Deletion of Stages 1 and 2. Minor refinement of the pit boundary within the Development Envelope/Proposal Footprint. Early excavations will include the initial processing and stockpile areas slightly reducing the area allocated to the pit. The reduction in pit area relates to increased size of the screening,	10.79 ha pit in one stage

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			processing and stockpile areas which are located partly on the first excavated portion of the pit footprint.	
Visual Screening and Safety Bunds to the Pit	Figure 2	1.75 hectares	1.95 ha A small screening bund of 0.20 hectares is added in the north west of the pit. Screening and safety bunds are added and extended along the south and east of the pit.	1.95 ha
Initial Crushing and Screening Area	Figures 2 and 8	0.64 hectares footprint	1.18 ha footprint located at the point of maximum environmental impact. The footprint is increased by taking more of the Development Envelope and a small portion of the initial excavated pit footprint. The crushing and screening footprint is located at its initial “worst” case position, before moving further into the pit as excavation continues. Only mobile processing equipment will be used. The initial crushing and screening area is moved east to improve visual, noise and dust amenity to Whitby Farm.	1.18 ha at the initial area of maximum potential impact, moving into the pit as the pit is excavated.
Stockpiles	Figures 2 and 8	1.10 hectares	2.13 ha The area is increased by taking more of the Development Envelope and a small portion of the first excavated pit footprint. A second stockpile area is added at the weighbridge site. The Initial stockpile footprint is moved west to provide better screening to Whitby Farm and to provide better road truck access.	2.13 ha at the initial area of maximum potential impact, moving into the pit as the pit is excavated.
Detention Basins	Figures 2 and 8	2.0 hectares Two 5,000 kL capacity detention basins provided.	The capacities of the initial basins remain at two 5,000 kL detention basins totaling 0.45 ha. The allocated footprint is reduced. Minor changes to the shape of the basins which can be expanded onto the edges of the pit floor as the pit develops.	0.45 ha 2 x 5,000 kL detention basins with an area of 0.45 ha.

Physical Elements				
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Pruden Road and Access Road	Figure 1	<p>1.52 hectares total</p> <p>1.38 hectares on Lot 800 plus 0.14 hectares widening of Pruden Road.</p> <p>The existing sealed pavements of Pruden Road were not included.</p> <p>Clearing on Pruden Road 0.5 ha.</p>	<p>4.04 ha</p> <p>The footprint now includes the sealed pavements of Pruden Road, the gabion construction from natural rock for the creek crossing on Pruden Road, and the cutting on the high eastern section of Pruden Road.</p> <p>Clearing on Pruden Road increases from 0.5 to 0.6 ha results from the inclusion of sightlines to South Western Highway.</p> <p>The Proposal Footprint includes Lot 800 and all of Pruden Road reserve which were assessed for flora/vegetation and cockatoo habitat by PGV Environmental 2018 and 2020 and Terrestrial Ecosystems in 2020.</p>	<p>4.04 ha</p> <p>Existing Pruden Road reserve and access road.</p> <p>0.6 ha clearing on Pruden Road reserve.</p>
Ancillary Operations	Figure 2	Not specified	<p>The whole Proposal Footprint on Lot 800 will be utilised, but it is not possible to specify every site activity or footprint.</p> <p>The Physical Elements are shown as 20.57 ha in area. The remaining up to 2.45 ha separating those footprints will be used for access, hardstand, parking and other Ancillary Operations.</p> <p>Disturbance on the Pruden Road reserve will be minimised in vegetated areas.</p>	Up to 2.45 ha ancillary operations.
Setbacks	Figures 1, 2 and 9	<p>Setback to State Forest adjoining the eastern boundary - 40 metres.</p> <p>Setback to Manjedal Brook – 50 metres.</p> <p>Distances to sensitive premises 720 metres, 820 metres shielded by landform. All other premises > 1000 metres.</p>	<p>Setback to eastern forest boundary- 40 metres.</p> <p>Setback to Manjedal Brook – 50 metres.</p> <p>Distances to sensitive premises 720 metres, 820 metres shielded by landform. All other premises > 1000 metres.</p>	<p>40 metre setback to eastern forest boundary.</p> <p>50 metre Setback to Manjedal Brook</p> <p>Distances to sensitive premises 720 metres, 820 metres shielded by landform.</p> <p>All other premises > 1,000 metres.</p>

Construction Elements				
Construction Elements	Location/ description	Existing Proposal extent, capacity or range	Proposed max extent, capacity or range	Combined maximum extent, capacity or range
Weighbridge and Office	Figure 2	Weighbridge was located within the original approximately 20.5 hectare Proposal Footprint.	0.03 ha A separate weighbridge and transportable office facility is added on the access road on Lot 800. No additional clearing.	0.03 ha
Pruden Road and access road Reconstruction	Figure 2	The existing sealed pavements of Pruden Road were not included. The gabion crossing of the creek and the road cutting were not included.	The footprint now includes the sealed pavements of Pruden Road The gabion construction from natural rock for the creek crossing on Pruden Road, and cutting on the high eastern section of Pruden Road are included. Gabions are to be constructed from the local natural rock extracted.	4.04 ha Existing Pruden Road reserve and access road on Lot 800.

Operational Elements				
Operational Elements	Location/ description	Existing Proposal extent, capacity or range	Proposed max extent, capacity or range	Combined maximum extent, capacity or range
Product Types		Armour rock (2 – 10 tonne rock) for coastal constructions with a smaller amount of crushed aggregates.	Armour rock (2 – 10 tonne rock) for coastal constructions with a smaller amount of crushed aggregates.	Armour rock (2 – 10 tonne rock) for coastal constructions with a smaller amount of crushed aggregates.
Annual Production		50,000 tonnes annually in the first few years, gradually rising to up to 200,000 tonnes per year	50,000 tonnes annually in the first few years, gradually rising to up to 200,000 tonnes per year.	50,000 tonnes annually in the first few years, gradually rising to up to 200,000 tonnes per year
Greenhouse Gas Emissions		Not included	501.6 tonnes CO ₂ per year over 60 years, plus 2,752.6 tonnes CO ₂ from vegetation clearing during construction, totally offset over a number of years by the growth of the offset planting.	501.6 tonnes CO ₂ per year over 60 years, plus 2,752.6 tonnes CO ₂ from vegetation clearing during

			construction.
Rehabilitation			
<p>Areas temporarily cleared during construction that will not form part of the operations will be progressively rehabilitated when no longer required.</p> <p>The area north of Manjedal Brook will be converted from parkland pasture to local native vegetation with further plantings along the western and southern boundaries of Lot 800. (Figure 3).</p> <p>Perimeter bunding will be constructed during site preparation and revegetated with local native species in the first winter after construction. (Figure 2).</p> <p>Pit faces will be backfilled with recovered overburden and planted to native species on closure of each section of the pit leaving some rocky outcrops to reflect the pre quarry landform in the first winter following closure. (Figure 10)</p> <p>Revegetation will be monitored and maintained for three years or until completion criteria is achieved.</p>			
Commissioning			
No specific commissioning is required as mobile processing plant is proposed.			
Decommissioning			
All non natural materials will be removed within 1 year of closure unless required for future land use.			
Other Elements which affect the extent of effects on the environment			
Proposal Time	Project Life	60 years	
	Construction Phase	1 year	
	Operation phase	60 years (approx.).	
	Decommissioning Phase	Removal of plant – 1 year Earthworks and revegetation – 1 year Monitoring of revegetation – 3 years or until completion criteria is achieved.	