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Published on: 13 April 2011

Statement No. 861

**STATEMENT THAT A PROPOSAL MAY BE IMPLEMENTED
(PURSUANT TO THE PROVISIONS OF THE
ENVIRONMENTAL PROTECTION ACT 1986)**

GIDGEGANNUP GRANITE QUARRY, GIDGEGANNUP, CITY OF SWAN

Proposal: The proposal is to develop a granite quarry in Gidgegannup, which is expected to yield up to 500,000 tonnes of rock per annum.

The proposal is further documented in Schedule 1 of this statement.

Proponent: Boral Resources (WA) Ltd (ACN: 008 686 904)

Proponent Address: Level 1, 63-69 Abernethy Road
BELMONT WA 6104

Assessment Number: 1771

Report of the Environmental Protection Authority: Report 1375

Appeal Numbers: 96 to 99 of 2010

The proposal referred to in the above report of the Environmental Protection Authority may be implemented. The implementation of that proposal is subject to the following conditions and procedures:

1. Proposal Implementation

1-1 The proponent shall implement the proposal as documented and described in schedule 1 of this statement subject to the conditions and procedures of this statement.

2. Proponent Nomination and Contact Details

2-1 The proponent for the time being nominated by the Minister for Environment under sections 38(6) or 38(7) of the *Environmental Protection Act 1986* is responsible for the implementation of the proposal.

2-2 The proponent shall notify the Chief Executive Officer of the Office of the Environmental Protection Authority of any change of the name and address of

the proponent for the serving of notices or other correspondence within 30 days of such change.

3. Time Limit of Authorisation

- 3-1 The authorisation to implement the proposal provided for in this statement shall lapse and be void five years after the date of this statement if the proposal to which this statement relates is not substantially commenced.
- 3-2 The proponent shall provide the Chief Executive Officer of the Office of the Environmental Protection Authority with written evidence which demonstrates that the proposal has substantially commenced on or before the expiration of five years from the date of this statement.

4. Compliance Reporting

- 4-1 The proponent shall prepare and maintain a compliance assessment plan to the satisfaction of the Chief Executive Officer of the Office of the Environmental Protection Authority.
- 4-2 The proponent shall submit to the Chief Executive Officer of the Office of the Environmental Protection Authority the compliance assessment plan required by condition 4-1 at least six months prior to the first compliance report required by condition 4-6, or prior to implementation, whichever is sooner.

The compliance assessment plan shall indicate:

- 1. the frequency of compliance reporting;
 - 2. the approach and timing of compliance assessments;
 - 3. the retention of compliance assessments;
 - 4. the method of reporting of potential non-compliances and corrective actions taken;
 - 5. the table of contents of compliance assessment reports; and
 - 6. public availability of compliance assessment reports.
- 4-3 The proponent shall assess compliance with conditions in accordance with the compliance assessment plan required by condition 4-1.
 - 4-4 The proponent shall retain reports of all compliance assessments described in the compliance assessment plan required by condition 4-1 and shall make those reports available when requested by the Chief Executive Officer of the Office of the Environmental Protection Authority.

- 4-5 The proponent shall advise the Chief Executive Officer of the Office of the Environmental Protection Authority of any potential non-compliance within seven days of that non-compliance being known.
- 4-6 The proponent shall submit to the Chief Executive Officer of the Office of the Environmental Protection Authority the first compliance assessment report fifteen months from the date of issue of this statement addressing the twelve month period from the date of issue of this statement and then annually from the date of submission of the first compliance assessment report.

The compliance assessment report shall:

1. be endorsed by the proponent's State Manager - Quarries or a person delegated to sign on the State Manager's behalf;
2. include a statement as to whether the proponent has complied with the conditions;
3. identify all potential non-compliances and describe corrective and preventative actions taken;
4. be made publicly available in accordance with the approved compliance assessment plan; and
5. indicate any proposed changes to the compliance assessment plan required by condition 4-1.

5. Performance Review and Reporting

- 5-1 The proponent shall submit to the Chief Executive Officer of the Office of the Environmental Protection Authority a Performance Review Report at ten (10) yearly intervals after the start of implementation which addresses:
1. the major environmental risks and impacts; the performance objectives, standards and criteria related to these; the success of risk reduction/impact mitigation measures and results of monitoring related to management of the major risks and impacts;
 2. the level of progress in the achievement of sound environmental performance, including industry benchmarking, and the use of best available technology; and
 3. improvements gained in environmental management which could be applied to this and other similar projects.

6. Fauna Habitat

- 6-1 Prior to commencement of the proposal, the proponent shall develop a mitigation program, in consultation with the Department of Environment and Conservation, for the potential impacts from implementation of the proposal to

fauna habitat for significant species including the foraging habitat for Black Cockatoos.

- 6-2 The proponent shall develop and implement a monitoring program for the duration of the proposal, in consultation with the Department of Environment and Conservation, to monitor the outcomes of the mitigation program required by condition 6-1, in relation to significant fauna.
- 6-3 Prior to undertaking vegetation clearing, the proponent shall employ suitably trained fauna handling personnel, to identify, remove and relocate significant fauna species from areas of disturbance in consultation with the Department of Environment and Conservation.

Note: Suitably experienced fauna handling personnel should have at least five years relevant field experience in carrying out fauna relocations in the south west of Australia to the satisfaction of the Office of the Environmental Protection Authority.

- 6-4 The fauna handling personnel shall obtain the appropriate licenses as required for fauna relocation under the *Wildlife Conservation Act 1950*.
- 6-5 The proponent shall report the findings of the monitoring program referred to in condition 6-2 in the compliance assessment report required by condition 4-6 and to the Chief Executive Officer of the Department of Environment and Conservation.

7. Dieback and Weeds

- 7-1 The proponent shall ensure that dieback disease (*Phytophthora* species) is not introduced as a direct or indirect result of implementation of the proposal into uninfected areas of the project area defined by the “red coloured line” in Figure 1.
- 7-2 Prior to commencement of the proposal, the proponent shall undertake a survey of the project area to identify and map the location of any dieback infestations.
- 7-3 At the completion of the survey identified in condition 7-2, the proponent shall provide the results and map of dieback infestations to the Chief Executive Officer of the Office of the Environmental Protection Authority.
- 7-4 The proponent shall use the map produced from the survey required by condition 7-2 as a baseline map of previously identified dieback infestations when determining compliance with condition 7-1.
- 7-5 No new species of weeds (including both declared weeds and environmental weeds) shall be introduced into the project area as a result of the implementation of the proposal.

- 7-6 Prior to commencement of the proposal, the proponent shall undertake a survey of the project area to identify and map the location of any known weed infestations.
- 7-7 The proponent shall use the map produced from the survey required by condition 7-6 as a baseline map of previously identified weed infestations when determining compliance with condition 7-5.
- 7-8 The proponent shall use the maps produced from the surveys required by condition 7-2 and 7-6 to produce a Hygiene Management Plan in consultation with the Department of Environment and Conservation, to ensure compliance with 7-1 and 7-5.
- 7-9 The proponent shall report on measures taken to achieve the requirements of conditions 7-1 and 7-5 in the compliance assessment report required by condition 4-6.

8. Dust Monitoring and Management

- 8-1 The proponent shall only detonate explosives on the premises when wind directions favour the carriage of dust away from residential areas to the east of the quarry, unless undertaken in accordance with the *Mines Safety and Inspection Regulations 1995*.
- 8-2 For the duration of the project, including construction activities, the proponent shall measure dust emissions at the eastern boundary of the project area adjacent to sensitive receptors within Lot 51 or at the nearest sensitive receptors, against an ambient PM₁₀ target of 50 micrograms per cubic metre averaged over a 24 hour period.

Note: Dust monitoring should be conducted in accordance with Australian Standard AS/NZS 3580.1.1:2007 *Guide to siting air monitoring equipment*, to ensure the accuracy of data collected.

- 8-3 In the event that dust emission levels are in excess of the maximum allowable PM₁₀ target defined by condition 8-2, the proponent shall notify the Chief Executive Officer of the Office of the Environmental Protection Authority within seven days of the exceedence.
- 8-4 The proponent shall within fourteen days of the exceedence of the maximum allowable PM₁₀ target defined by condition 8-2 being recorded, provide a report to the Chief Executive Officer of the Office of the Environmental Protection Authority outlining the causes for the exceedence and management measures being implemented to ensure compliance with the requirements of condition 8-2.
- 8-5 The proponent shall report the results of measurement required in condition 8-2 in the compliance assessment report required by condition 4-6.

- 8-6 The proponent shall maintain a complaints register for the duration of the proposal and immediately investigate and alleviate any dust complaints.

9. Rehabilitation of Quarry Walls

- 9-1 The proponent shall commence rehabilitation of non-active benches of exposed faces visible from residential properties to the north and to the north-west of the project area defined in Figure 2 as 'Seen Area 2' and 'Seen Area 3' within 12 months of the benches not being required for active mining.
- 9-2 The proponent shall revegetate the benches identified in condition 9-1 with vegetation composed of native plant species of local provenance (defined as seed or plant material collected within 10 kilometres of the proposal).
- 9-3 Rehabilitation activities shall continue until such time as the exposed faces are obscured by vegetation when viewed from Seen Areas 2 and 3, to the satisfaction of the Chief Executive Officer of the Office of the Environmental Protection Authority.
- 9-4 The proponent shall report the progress of conditions 9-1 and 9-2 in the compliance assessment report required by condition 4-6.

10. Decommissioning and Closure

- 10-1 At least two years prior to the anticipated date of closure, or at a time approved by the Chief Executive Officer of the Office of the Environmental Protection Authority, the proponent shall submit a Final Decommissioning Plan designed to ensure that the site is suitable for future land uses, for approval of the Chief Executive Officer of the Office of the Environmental Protection Authority.

The Final Decommissioning Plan shall set out procedures and measures for:

1. decommissioning of all plant and equipment;
 2. rehabilitation of all areas disturbed through implementation of the proposal (except the final quarry pit), including any existing clay quarries within the project area defined by the "red coloured line" in Figure 1. Vegetation should be composed of native plant species of local provenance (defined as seed or plant material collected within 10 kilometres of the proposal); and
 3. inventory of all contaminated sites and proposed management; and
 4. final closure of all areas disturbed through implementation of the proposal so that they are safe, stable and non-polluting.
- 10-2 The proponent shall implement the Final Decommissioning Plan required by condition 10-1 until such time as the Minister for Environment determines, on advice of the Chief Executive Officer of the Office of the Environmental

Protection Authority, that the proponent's decommissioning responsibilities have been fulfilled.

- 10-3 The proponent shall make the Final Decommissioning Plan required by condition 10-1 publicly available in a manner approved by the Chief Executive Officer of the Office of the Environmental Protection Authority.

11. Conservation of Native Vegetation

- 11-1 Prior to the commencement of clearing, the proponent shall ensure that not less than 48 hectares of native vegetation, identified within the area shaded green in Figure 3 of this statement, is protected in perpetuity by an instrument or instruments approved by the Chief Executive Officer of the Office of the Environmental Protection Authority.

Notes

1. Where a condition states "on advice of the Office of the Environmental Protection Authority", the Office of the Environmental Protection Authority will provide that advice to the proponent.
2. The Office of the Environmental Protection Authority may seek advice from other agencies or organisations, as required, in order to provide its advice to the Department of Environment and Conservation.
3. The Minister for Environment will determine any dispute between the proponent and the Office of the Environmental Protection Authority over the fulfilment of the requirements of the conditions.
4. The proponent is required to apply for a Works Approval and Licence for this project under the provisions of Part V of the *Environmental Protection Act 1986*.
5. Section 13 of the *Environmental Protection (Noise) Regulations 1997* has provision to manage noise emitted from construction activities.

HON BILL MARMION MLA
MINISTER FOR ENVIRONMENT; WATER

The Proposal (Assessment No. 1771)

The Site is situated approximately 11 km north-east of the Midland town centre in the City of Swan and approximately 4 km from the Darling Scarp in the Darling Ranges.

The development of the quarry would cover a total area of approximately 42 ha, which is expected to yield up to 500,000 tonnes of rock per annum. The pit, which would have a surface area of not more than 28 ha, is expected to yield approximately 25 million tonnes of hard rock. The remaining 14 ha would be utilised for supporting infrastructure and stockpiles. The quarry would be developed in three stages of increasing production over 20 years, as shown below.

Years 0 – 5:	Temporary infrastructure - mobile crushing equipment.
Years 6 – 19:	Fixed infrastructure by 6th year. Gradual increase in production.
Years 20 – 50:	Fully operational - yielding 500,000 tonnes of rock per annum.

Processing infrastructure that would be required includes rock crushing and screening equipment, stockpiles and water storage dams. Other site infrastructure includes a site office, weighbridge, employee ablution facilities, fuel storage, workshop / vehicle servicing area and material / chemical storage facilities. Noise bunds would be constructed on the northern and eastern sides of the mobile plant setup area.

Water requirements would be met from existing on-site dams and clay pits. The on-site clay pits are recharged by groundwater and stormwater flows from the quarry site. Stormwater runoff would be harvested into existing on-site dams to eliminate the need to use town mains supply for dust suppression. A potable water supply tank would be installed at the site and will be serviced by a tanker as required.

The location of the various project components is shown in Figure 4.

The main characteristics of the proposal are summarised in Table 1 below. A detailed description of the proposal is provided in Section 2 of the public environmental review document, *Gidgegannup Granite Quarry – Public Environmental Review*, prepared by Boral Resources (WA) Ltd, Belmont, Western Australia (January 2010).

Table 1: Summary of Key Proposal Characteristics

Element	Description
Life of project	Approximately 50 years
Maximum surface area of quarry pit	No more than 28 hectares
Depth of quarry pit	50 – 70 metres below natural ground level.

Element	Description
Total area of disturbance	Approximately 42 hectares of which approximately 11 hectares has been previously cleared for clay quarrying.
Total area rehabilitated	All disturbed areas outside of the quarry pit.
Quarrying rate	Not more than 500,000 tonnes per annum.
Water supply	Stormwater and groundwater recharge from on-site dams and clay pits.

Figures (attached).

Figure 1: Defined Project Area

Figure 2: Visual Amenity Map

Figure 3: Location of Proposed Conservation Area

Figure 4: Project Layout

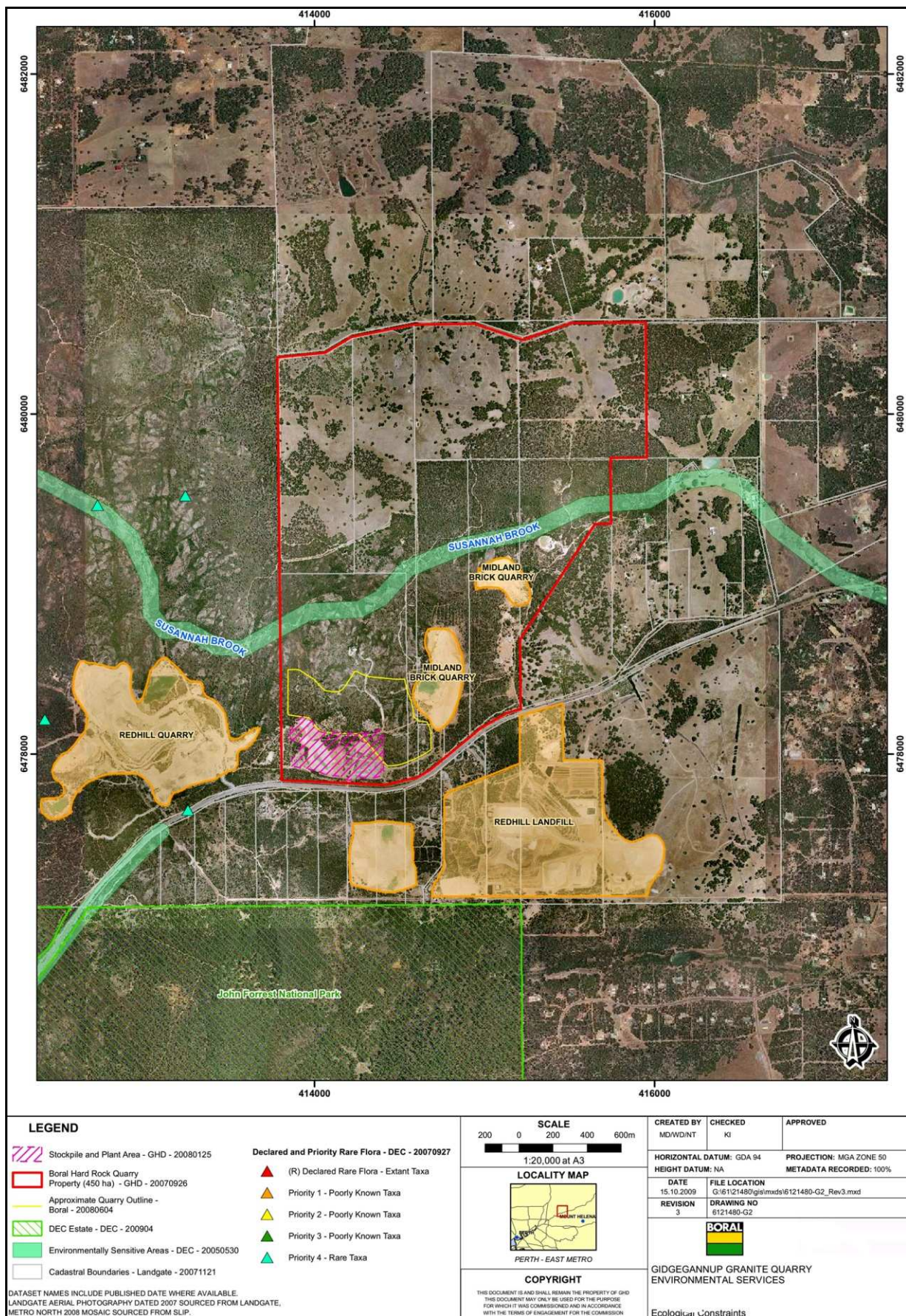
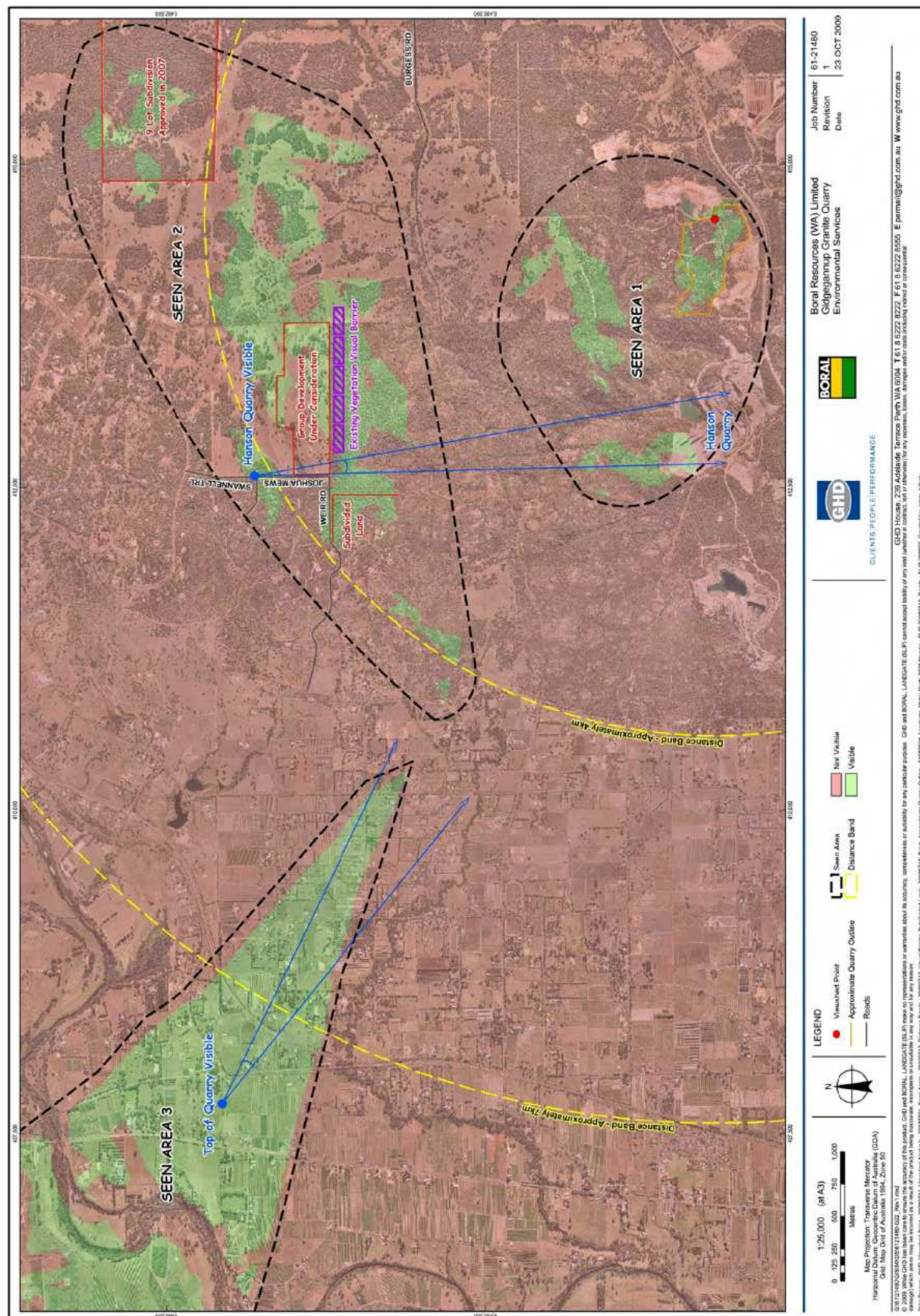


Figure 1: Defined Project Area



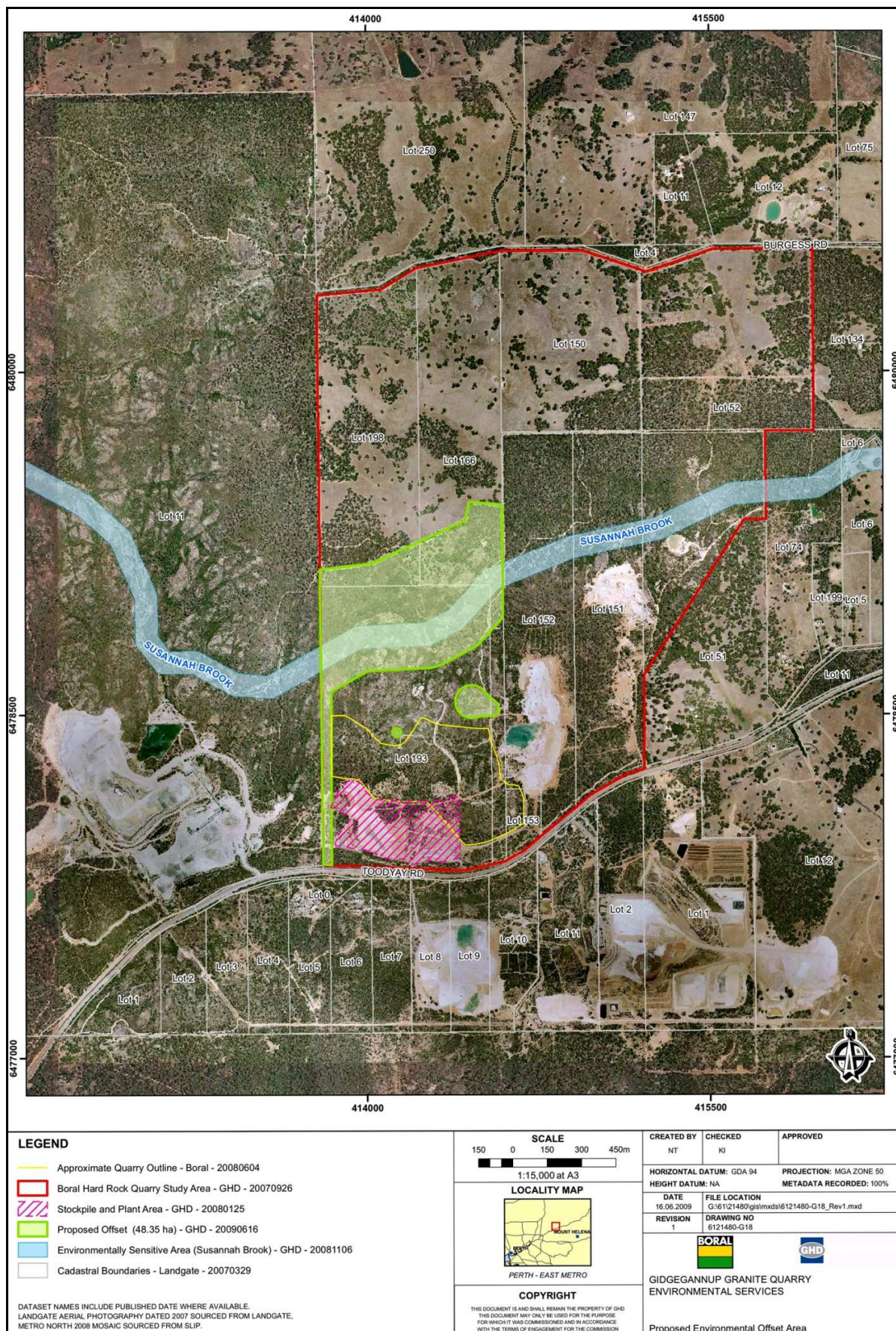


Figure 3: Location of Proposed Conservation Area

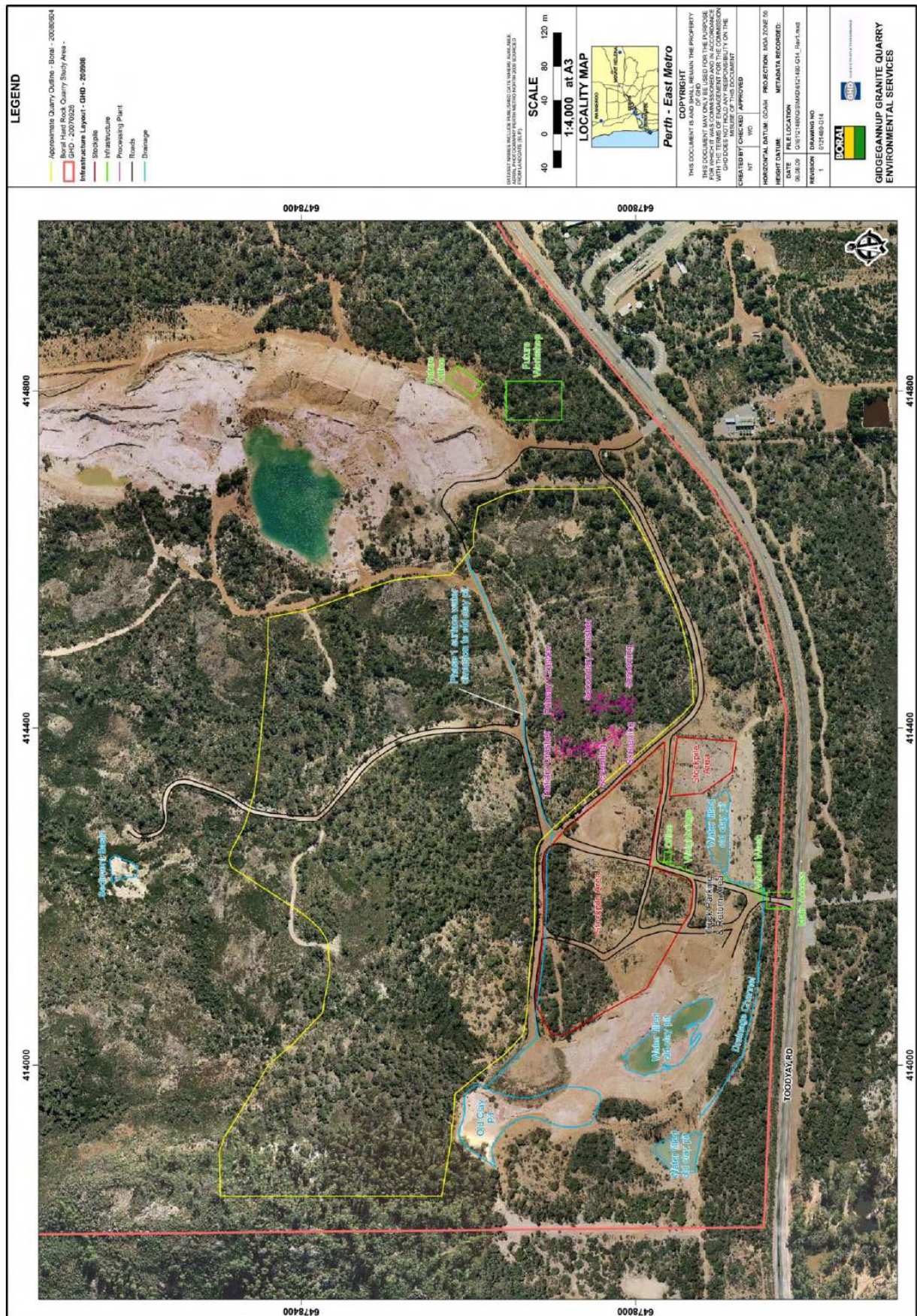


Figure 4: Project Layout

[Minister's letterhead]

NOTICE OF INTERIM IMPLEMENTATION CONDITIONS

section 46A
Environmental Protection Act 1986

Proposal: Gidgegannup Granite Quarry, Gidgegannup, City of Swan

Proponent: Hanson Construction Materials Pty Ltd
Australian Company Number 009 679 734

Proponent Address: 35 Great Eastern Highway
RIVERVALE WA 6103

Statement to which this notice relates: Statement 861 dated 13 April 2011

Pursuant to section 46A(1) of the *Environmental Protection Act 1986*, Interim Condition 3 as set out in this Notice is to have effect in place of implementation condition 3 of Statement 861 dated 13 April 2011. Interim Implementation Condition 3 of this notice is to have effect until a further statement is published under section 45(5) as applied by section 46(8) of the *Environmental Protection Act 1986*. All other conditions of Statement 861 continue to have effect.

3. Time Limit of Authorisation

- 3-1 The proponent shall not commence implementation of the proposal after the expiration of six (6) months from the date of this Notice, and any commencement, within this six (6) month period, must be substantial.
- 3-2 Any commencement of implementation of the proposal, within six (6) months from the date of this Notice, must be demonstrated as substantial by providing the CEO* with written evidence, on or before the expiration of six (6) months from this Notice.

[Signed 8 April 2016]

HON ALBERT JACOB MLA
MINISTER FOR ENVIRONMENT; HERITAGE

* The Chief Executive Officer of the Department of the Public Service which is responsible for the administration of section 48 of the *Environmental Protection Act 1986*, or his delegate.