



Ass # 491  
E-11 # 482  
State # 267

WESTERN AUSTRALIA  
MINISTER FOR THE ENVIRONMENT

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

QUICKLIME PLANT & LIMESTONE QUARRY, NOWERGUP  
NEAR WANNEROO (491)

SWAN PORTLAND CEMENT LTD

This proposal may be implemented subject to the following conditions:

**1. Commitments**

In implementing the proposal, the proponent shall fulfil the commitments (which are not inconsistent with the conditions or procedures contained in this statement) made in the proponent's Consultative Environmental Review and included in Environmental Protection Authority Bulletin 584 as Appendix 1. (A copy of the commitments is attached).

**2. Detailed Implementation**

Subject to these conditions, the manner of detailed implementation of the proposal shall conform in substance with that set out in any designs, specifications, plans or other technical material submitted by the proponent to the Environmental Protection Authority with the proposal. Where, in the course of that detailed implementation, the proponent seeks to change those designs, specifications, plans or other technical material in any way that the Minister for the Environment determines on the advice of the Environmental Protection Authority, is not substantial, those changes may be effected.

**3. Noise Levels**

3-1 The proponent shall ensure that the noise emissions from the project do not cause or contribute to noise levels in excess of:

- 50db(A) slow from 7am to 7pm Monday to Saturday inclusive, but excluding gazetted public holidays;
- 40db(A) slow from 10pm to midnight and from midnight to 7am every day; and
- 45db(A) slow at all other times;

when measured:

- (1) at any point on or adjacent to other premises not occupied by the proponent and used for residential or other noise-sensitive purposes; and
- (2) at a height between 1.2 and 1.5 metres above ground level and at a distance greater than 3.5 metres from any reflecting surface other than the ground.

3-2 Where the combined level of the noise emissions from the project and the normal ambient noise exceeds the levels specified in condition 3-1, this condition shall be considered to be contravened only when the following criteria are also met at the measurement point:

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- the noise emissions from the premises are considered to be audible by the Environmental Protection Authority; and
- the noise emissions from the premises are identifiable by the Environmental Protection Authority as emanating from the project.

3-3 Noise emissions shall not cause unacceptable annoyance due to tonal or impulsive components. These characteristics shall be assessed by the Environmental Protection Authority.

3-4 Exemption may be granted from conditions 3-1 and 3-3 in respect of any premises used for residential purposes by the negotiation of a written agreement with the occupier(s) of that premises. Such agreement shall be acceptable to the Environmental Protection Authority.

#### **4. Environmental Management Programme**

A comprehensive environmental management programme should be prepared to enable the proponent to detect, report on and manage any significant impacts on the environment.

4-1 The proponent shall prepare an Environmental Management Programme following consultation with the appropriate government departments, to the satisfaction of the Environmental Protection Authority. Plans to be prepared as part of the Environmental Management Programme shall include, but not necessarily be limited to:

- (1) clearing of native vegetation;
- (2) conservation of *Eucalyptus "argutifolia"*;
- (3) rehabilitation of quarried sites and haul roads;
- (4) noise management;
- (5) water quality protection;
- (6) dust impacts associated with the quarrying and transport operations;
- (7) auditing of Greenhouse gas emissions;
- (8) visual impacts and landscaping;
- (9) social impacts; and
- (10) periodic reporting of monitoring results and consequential changes to environmental management.

4-2 The timing of the preparation and review of these plans shall be to the satisfaction of the Minister for the Environment upon advice from the appropriate government departments.

4-3 As part of the Environmental Management Programme, the proponent shall prepare an "Audit Programme" in consultation with and to the satisfaction of the Environmental Protection Authority. The programme shall include, but not be limited to, the preparation of regular "Compliance Reports" to show the progress of the proposal, any changes to the original proposal, and how the proponent has complied with the environmental conditions.

4-4 The proponent shall subsequently implement the Environmental Management Programme to the satisfaction of the Environmental Protection Authority upon advice from the appropriate government departments.

## **5. Decommissioning**

The proponent shall be responsible for decommissioning and removal of the plant and installations and rehabilitating the site and its environs, to the satisfaction of the Environmental Protection Authority. At least six months prior to decommissioning, the proponent shall prepare and subsequently implement a decommissioning and rehabilitation plan, to the satisfaction of the Environmental Protection Authority.

## **6. Proponent**

No transfer of ownership, control or management of the project which would give rise to a need for the replacement of the proponent shall take place until the Minister for the Environment has advised the proponent that approval has been given for the nomination of a replacement proponent. Any request for the exercise of that power of the Minister shall be accompanied by a copy of this statement endorsed with an undertaking by the proposed replacement proponent to carry out the project in accordance with the conditions and procedures set out in the statement.

## **7. Time Limit on Approval**

If the proponent has not substantially commenced the project within five years of the date of this statement, then the approval to implement the proposal as granted in this statement shall lapse and be void. The Minister for the Environment shall determine any question as to whether the project has been substantially commenced. Any application to extend the period of five years referred to in this condition shall be made before the expiration of that period, to the Minister for the Environment by way of a request for a change in the condition under Section 46 of the Environmental Protection Act. (On expiration of the five year period, further consideration of the proposal can only occur following a new referral to the Environmental Protection Authority).

### **NOTE**

The quicklime plant is a prescribed premises under Part V of the Environmental Protection Act 1986. Accordingly the proponent will be required to obtain a Works Approval prior to constructing the plant and a Licence prior to its operation.

Bob Pearce, MLA  
MINISTER FOR THE ENVIRONMENT

- 5 JUN 1992

## Proponent's Commitments

### PROPOSED QUICKLIME PLANT AND LIMESTONE QUARRY AT NOWERGUP, NEAR WANNEROO (491)

#### Swan Portland Cement Ltd

The proponent has made the following environmental commitments:

1. All solid refuse and construction material wastes would be removed from site and disposed of in accordance with the requirements of the City of Wanneroo.
2. Where practicable, native vegetation would be retained during site clearing operations within the revised plant site.
3. Where practicable, vegetation and topsoil cleared during the construction phase would be used in the rehabilitation of disturbed areas within the revised plant site and the quarry.
4. Dust suppression measures, including application of water from tankers, would be used to minimize dust generation during site preparation and construction activities.
5. All construction machinery would be fitted with appropriate noise suppression devices. Construction noise levels would comply with the requirements of the Department of Occupational Health, Safety and Welfare. In addition, noise levels would comply with the allowable community noise levels as set out in the Noise Abatement (Neighbourhood Annoyance) Regulations, 1979.
6. Swan would undertake an examination of practical means of reducing the demand for water through recycling and improvements in process technology.
7. Areas of the leases containing populations of *E. argutifolia* would not be quarried and would be protected from damage to the satisfaction of the EPA.
8. Swan would ensure that no physical damage to any population of *E. argutifolia* would occur as a result of its quarrying or associated operations, and would endeavour to prevent damage from other causes. A quarry management plan addressing the management of *E. argutifolia* and other flora, water, and rehabilitation techniques would be prepared in consultation with CALM to the satisfaction of the Department of Mines and the EPA.
9. Quarrying would not be undertaken within 10m of any stem, plant or population of *E. argutifolia*. No batter slope steeper than 1:3 would be established within 80m of any stem, plant or population, apart from the access road near Population C.
10. All areas within 80m of the *E. argutifolia* populations, apart from the access road near Population C, would be fully rehabilitated in order to re-establish indigenous species on the batter slopes. Rehabilitation would commence within 12 months of the cessation of quarrying in the area, and would be conducted as described in Section 6.3.10 of the CER.

11. A 1.5m barrier fence would be constructed around each *E. argutifolia* population, to restrict vehicular movement in the area. Fencing would be erected at least 1 year before quarrying approached within 200m of any population of *E. argutifolia*.
12. Swan would fund electrophoretic studies to establish the genetic relationship of individual plants within and between populations of *E. argutifolia*.
13. As the subsequent populations of *E. argutifolia* would not be approached by quarrying for a considerable time after Population D, it would be possible to assess the results of long-term monitoring of the first population. Should it then be considered necessary, management measures could be revised in consultation with CALM.
14. Rehabilitation of the quarry area would be progressively undertaken to the satisfaction of the EPA, as detailed in Section 6.3.10. of the CER. Rehabilitation would essentially involve the backfilling of silica reject material and the spreading of topsoil over the quarry floor and slopes. Topsoil may be supplemented by the placement of light brush from surrounding vegetation. Consideration would be given to the establishment from seedling of *E. argutifolia* in the areas adjacent to existing populations, but this would not be undertaken without the agreement of CALM.
15. A monitoring programme meeting the requirements of the EPA would be established to monitor the rehabilitation of the quarry area, including the populations of *E. argutifolia*. Details of the monitoring programme are provided in Section 7 and, in particular, Table 7.1 of the CER.
16. The biological waste treatment system for domestic effluent would be constructed and operated in accordance with the appropriate regulations of the *Health Act, 1911*, and to the satisfaction of the EPA.
17. The plant would incorporate a wide range of safeguards such as fire protection, instrument monitoring, back-up systems and provisions for emergency shut-downs. Where appropriate, personnel involved in the operation of the quicklime plant would be issued with protective clothing and safety equipment. The City of Wanneroo and the Bush Fires Board would be consulted for advice on the prevention and suppression of fires.
18. Gibbs Road would no longer be used by the proponent to transport limestone to Rivervale, once the Pinjar lease quarry and quicklime plant became operational.
19. In the short term, and until access between the revised plant site and Flynn Drive has been constructed, Swan is prepared to use Wattle Avenue East, Pinjar Road and Flynn Drive to Wanneroo Road for the transportation of quicklime if necessary.
20. Prior to the development of the North Wesco lease, negotiations would be held with the City of Wanneroo concerning possible temporary diversion of Wesco Road and other measures to avoid conflict with public road users.
21. An electrostatic precipitator would be installed to ensure the levels of suspended particulates from the quicklime plant were below the limit of 100 mg/Nm<sup>3</sup> recommended by the National Health and Medical Research Council.
22. Measures to be implemented at the quicklime plant to prevent dust generation would include the installation of mist water sprays and dust collection units, covering of conveyors and limestone stockpiles, sealing of internal roads, and retention of vegetation (where practicable) within the plant site.
23. When considered necessary, water from mobile tankers would be applied to the quarry and haul roads to reduce dust levels.
24. A monitoring programme would be established to monitor the air quality (particulate load and gases, and total suspended particulates). Details of the monitoring programme are provided in Section 7 and, in particular, Table 7.1 of the CER.

25. Oil traps and impermeable bunding would be used to contain spills of fuels, oils, lubricants and chemicals. Oil trap sludges, spent containers and waste lubricants would be recycled or disposed of in accordance with the requirements of the City of Wanneroo and the Health Department.
26. A monitoring programme would be established to monitor groundwater, the details of which are provided in Section 7 of the CER and in Response 2.2.
27. All potential noise-generating equipment associated with the quicklime plant would incorporate effective sound-proofing measures, such as mufflers and a range of enclosures, to minimize noise emissions.
28. Quarrying would not be undertaken outside daylight hours, except in exceptional circumstances (refer Response 5.6).
29. All mobile equipment, such as dozers and trucks, would be fitted with silencers to reduce tonal and impulsive noise emissions.
30. Quarrying would not be undertaken any closer than 200m from the westernmost boundary of the Gibbs lease.
31. A monitoring programme would be established to monitor noise emissions resulting from quarrying activities and quicklime plant operations. The details of the programme are provided in Section 7 of the CER.
32. Swan would meet all appropriate noise emission requirements set by the EPA.
33. All external lighting would be screened and would be directed inwards to minimize interference with residents.
34. Specific details of decommissioning are yet to be formulated; such details would be developed nearer to the end of the plant life. The plant site would be left in an unpolluted, stable, free-draining, vegetated condition, free from potential hazards and to the satisfaction of the EPA.
35. Social impact monitoring would be undertaken to address issues raised by members of the public. Details of this monitoring, together with the process through which these issues would be addressed, are provided in Section 7 of the CER and Response 8.7.