



Ass #	354
Bull #	510
State #	199

WESTERN AUSTRALIA
MINISTER FOR THE ENVIRONMENT

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

RELOCATION OF HERNE HILL QUARRY OPERATION (354)

PIONEER CONCRETE (WA) PTY LTD

This proposal may be implemented subject to the following conditions :

1 Proponent 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 Public Environmental Review (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 Susannah Brook

There shall be no unacceptable detrimental effects from drainage of the quarry site on the water quality of Susannah Brook.

3-1 Prior to the commencement of productive mining, the proponent shall prepare a drainage management programme for the quarry operations to the satisfaction of the Minister for the Environment on advice from the Environmental Protection Authority and the Water Authority of Western Australia.

3-2 Subsequent to Condition 3-1, the proponent shall implement the approved drainage management programme to the satisfaction of the Environmental Protection Authority on advice from the Water Authority of Western Australia.

4 Rehabilitation

Pioneer No.1 and Pioneer No.2 quarries are to be rehabilitated.

4-1 Within twelve months of the date of this statement, the proponent shall prepare detailed plans for the on-going rehabilitation of Pioneer No.1 and Pioneer No.2 quarries. These plans shall be to the satisfaction of the Environmental Protection Authority on advice from the Shire of Swan.

Published on

5 DEC 1991

4-2 Subsequent to Condition 4-1, the proponent shall implement the approved plans, and updates as required by Condition 4-3, to the satisfaction of the Environmental Protection Authority on advice from the Shire of Swan.

4-3 Subsequent to Conditions 4-1 and 4-2, the proponent shall review the rehabilitation plans annually for the first two years and thereafter at five-yearly intervals. The reviews shall be to the satisfaction of the Environmental Protection Authority on advice from the Shire of Swan.

5 Decommissioning

Plant and installations are to be removed from the site and its environs.

5-1 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.

5-2 At least twelve months prior to final decommissioning, the proponent shall prepare a decommissioning and rehabilitation plan to the satisfaction of the Environmental Protection Authority on advice from the Shire of Swan.

5-3 Subsequent to Condition 5-2, the proponent shall implement the approved decommissioning and rehabilitation plan to the satisfaction of the Environmental Protection Authority on advice from the Shire of Swan.

6 Monitoring reports

Monitoring information is to be made freely available to the general public.

6-1 The proponent shall prepare an annual monitoring report for the project to the satisfaction of the Environmental Protection Authority.

6-2 Subsequent to Condition 6-1, the proponent shall provide copies of the annual report to the Environmental Protection Authority and the Shire of Swan for perusal by interested parties, to the satisfaction of the Environmental Protection Authority on advice from the Shire of Swan.

7 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.

8 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).

9 Audit programme

The proponent shall prepare an audit programme for the proposal in consultation with the Environmental Protection Authority which is to be satisfactory to the Minister for the Environment before any site works are commenced. The programme shall list the actions required by these conditions and the commitments, and specify for each action, its scope, how and when it will be performed and the process for verifying that it has been completed satisfactorily. The programme shall include periodic reporting to inform the Minister for the Environment on the progress of the proposal. Subsequently, the proponent shall adhere to the approved audit programme to the satisfaction of the Environmental Protection Authority.

Bob Pearce, MLA
MINISTER FOR THE ENVIRONMENT

4 DEC 1991

Pioneer Concrete (WA) Pty Ltd makes the following specific commitments regarding environmental protection and management at the proposed Pioneer No.2 Quarry.

Quarry development and operation

- 1(a) Access to the Pioneer No.2 site will be direct from Toodyay Road. Accessways will be designed to minimise noise generation and disruption to other traffic, and will be constructed to the satisfaction of the Main Roads Department.
- 1(b) Pioneer will take steps within its power to minimise usage of the local and rural roads by vehicles travelling to or from the Pioneer No.1 and No.2 quarries and promote the use of main roads (e.g. Toodyay Road, Great Northern Highway, Bishop Road) in order to avoid traffic conflict and ensure road safety.
2. Topsoil, vegetation and overburden will be stripped from areas to be developed. These will be used for the building of bunds and for rehabilitation purposes.
3. No physical interference with Susannah Brook will be permitted at any stage during the development or operation of the quarry. To this end, a minimum 50 metre buffer zone will be maintained each side between the Brook and any quarrying activity, and allowing a total 100 metre buffer zone around the Brook.
4. Regional water mains, power, gas and telephone services will not be adversely affected by the development of the Pioneer No.2 site.
5. Process water supplies will be drawn from the existing water storage in the Pioneer No.1 Quarry and from the other surface storages on Pioneer property, with possible occasional augmentation by Water Authority supplies. No water will be drawn from Susannah Brook. There is currently no planned use of groundwater in the proposed development, consequently there will be no effect on groundwater resources.
6. Drilling and blasting will be conducted only during daylight hours. Blast design will be aimed at achieving the required breakage of rock with minimum generation of noise, vibration and dirt.
7. Following the completion of development of Pioneer's No.2 pit and crushing plant, processing operations at Pioneer No.1 will cease and the plant will be dismantled.

Protection of vegetation

8. Site clearance and vegetation removal will be minimised by survey control and supervision of personnel engaged in clearing activities.
9. All vehicles entering the site from regions identified as potentially contaminated with dieback disease will be thoroughly washed to remove adhering soil and weed seeds. All fill or soil used on the site will be obtained from uncontaminated sources. Procedures for preventing its introduction will follow those laid down in the CALM Dieback Manual.
10. Where appropriate, seeds of geographically-restricted plant species will be collected from the site and propagated for later use in rehabilitation.
11. Fire prevention measures as per relevant Shire and Brigade regulations will be enforced within the project area and on the rest of Pioneer's land holding.
12. Unauthorised vehicular access to the Pioneer land holding will not be permitted and the current practice of using security guards to patrol the area will be continued.

13. Pioneer will monitor the vegetation on its property to detect any outbreaks of dieback disease. If any is detected, Pioneer will consult with the Department of Conservation and Land Management to determine a suitable treatment strategy.
14. The remainder of Pioneer's property outside the Project Area will be maintained as a buffer zone for the Quarry.

Noise, dust and odours

15. All emissions of noise, dust and odours from the operations will be within limits laid down in licence conditions by the Environmental Protection Authority or set out in the Environmental Protection Act 1986.
16. Pioneer will endeavour to further reduce emissions by a number of means including enclosure of crushing and screening plants, watering of roads, stockpiles and product transfer points, careful design of blasting, and the use of extraction systems and wet scrubbers in the asphalt plant.
17. Pioneer or its agents will monitor noise levels from blasting and processing, dust deposition, odours and occupational noise and dust. The results of this monitoring will be made available on an annual basis.
18. Occupational noise and dust levels will be monitored and the results reported to the Department of Mines. Pioneer will take any action necessary to ensure that the levels of occupational noise and dust comply with the provisions of the Mines Regulation Act 1946-1974.

Drainage and water quality

19. Pioneer will endeavour to minimise disruption to drainage patterns in areas outside those directly affected by quarrying activities. Rainfall runoff to disturbed areas will be prevented by the use of bunds and drains where necessary. Careful attention will be paid to the minimisation of erosion.
20. No untreated runoff from disturbed areas of the Project Area will be permitted to enter any watercourse. All such runoff will first be treated by means of sedimentation basins or silt traps to remove excess suspended sediments. Any runoff likely to contain oil contamination will be treated to remove such contaminants.
21. The quality of water leaving the Project Area will be monitored by regular sampling.

Visual impact

22. The Pioneer No.2 operations will not be visible from ground level outside Pioneer property once screening bunds and vegetation are established. Screening vegetation will be established around the Pioneer No.2 infrastructure site and north-west of the quarry pits to screen the operations from view.

Aboriginal interests

23. Discussions will be held with representatives of the local Nyungar Aboriginal community regarding the protection of Susannah Brook and the future of the white "ochre" deposit in the vicinity of the tertiary crusher/stockpile site. Pioneer will take steps to ensure that quantities of the "ochre" are made available to Aborigines for their use.

Waste disposal

24. Solid wastes, such as domestic waste, will be disposed of at an approved Council landfill site.
25. Oils and grease separated from contaminated runoff in the area of the workshops and asphalt plant will be collected and removed from the site, either for recycling or for disposal in a Council-approved liquid waste disposal site.
26. Inert slurry originating from dust suppression sprays in the crushing, screening and asphalt plants will be disposed of in the solid waste disposal site located on Pioneer property. This site is situated on a near-impermeable clay base and is bunded to prevent runoff.
27. Sewerage facilities will be designed so as to prevent impacts on ground or surface waters in the area, and will conform to Health Department regulations.

Rehabilitation

28. A programme currently underway at Pioneer No.1 will continue.
29. Pioneer will continue to take responsibility for rehabilitation and will investigate new developments in rehabilitation methods in order to optimise the rehabilitation of the Pioneer No.1 and No.2 Quarries.
30. The progress reports on rehabilitation works at the Pioneer Quarries will be made available to the Environmental Protection Authority as required.

Community liaison

31. Pioneer will continue to maintain a register of public complaints against its quarrying operations at Herne Hill and will respond promptly and individually to each complaint received.

Management, monitoring and reporting

32. Pioneer will continue to monitor meteorology, noise, dust, odours, water quality, vegetation and public opinion at the Pioneer No.2 quarry site. The results of this monitoring will be used by Pioneer to optimise its environmental management procedures at the Pioneer No.2 Quarry. These results will be available on an annual basis.
33. Pioneer will continue to monitor research, both within Australia and overseas, into new developments in blasting technology, noise, dust and odour control in the operations of the quarry and the asphalt plant.

Attachment 1 to Statement 199

Summary: Change to the area of the west pit development in terms of the attached figure, in which the area cross-hatched in red is approved to be developed for quarrying.

Date of approval: 25 January 2006



GOVERNMENT OF WESTERN AUSTRALIA

MINISTER FOR THE ENVIRONMENT; SCIENCE

Our Ref: Bulletin 1152

Ms Alyson Vinciguerra
Risk Manager
Hanson Construction Materials Pty Ltd
PO Box 187
VICTORIA PARK WA 6979

Dear Ms Vinciguerra

**APPROVAL TO CHANGE PROPOSAL – RELOCATION OF HERNE HILL QUARRY,
BULLETIN 510**

Thank you for your letter dated 23 January 2006 in relation to the amendment of the above proposal pursuant to section 45C of the *Environmental Protection Act 1986*.

As you are aware, under section 45C, the Minister for the Environment may approve of a proposal being changed without it being referred to the Environmental Protection Authority (EPA), provided the change does not have a significant detrimental effect on the environment in addition to, or different from, the effect of the original proposal.

Having considered the revised plan of the west pit, which describes the current extent of the pit, I consider that the changes will not have a significant effect on the environment in the manner contemplated by section 45C. As a result, I approve of the change to the area of the west pit development in terms of the attached figure, in which the area cross-hatched in red is approved to be developed for quarrying.

As mentioned in my letter to you dated 21 December 2005, should Hanson Construction Materials Pty Ltd wish to extend the quarry further than the area currently approved, such a proposal should either be referred to the EPA for assessment, or approval should be sought for the extension to be subject to the existing conditions.

Yours sincerely

Dr Judy Edwards MLA
MINISTER FOR THE ENVIRONMENT; SCIENCE

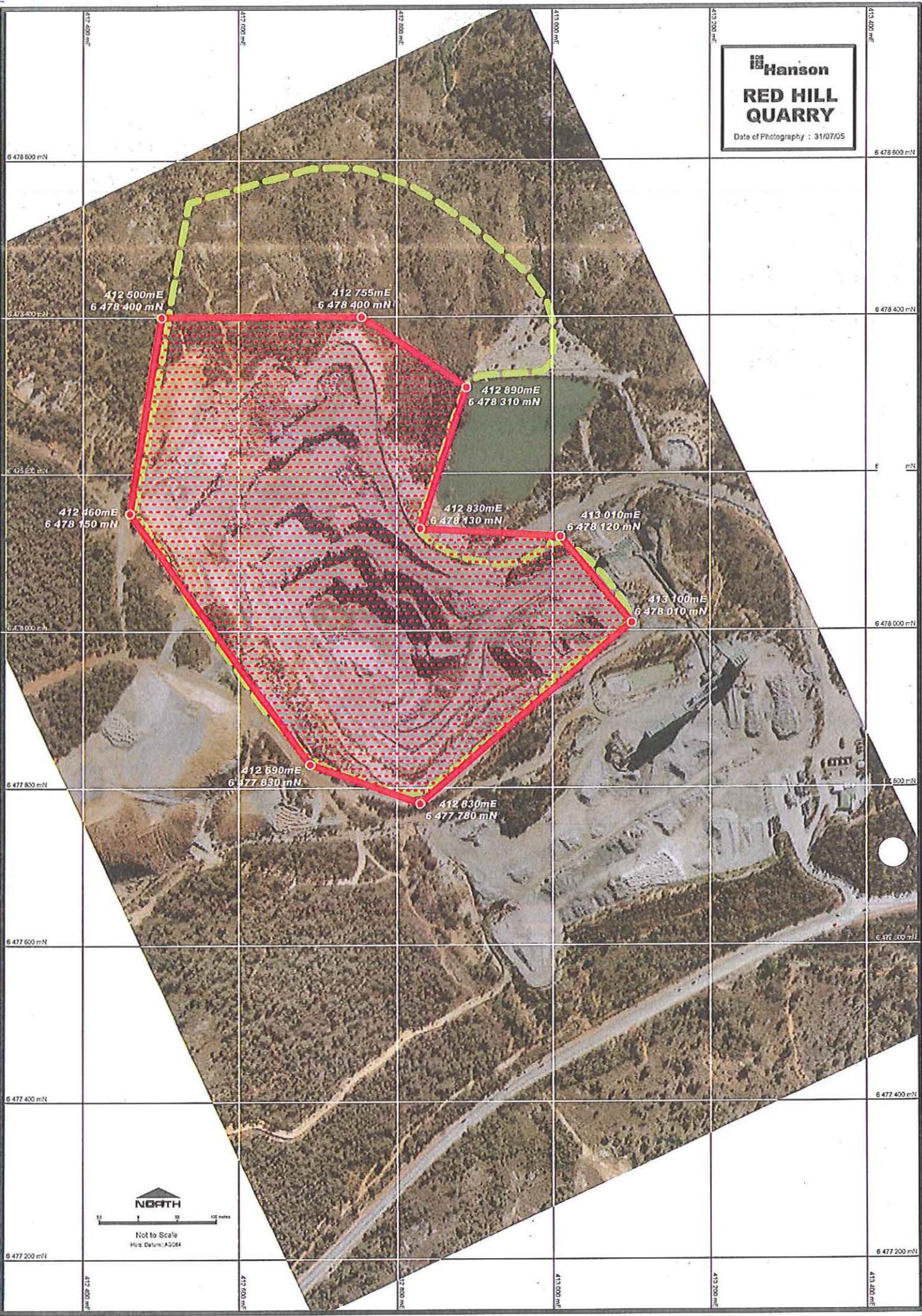
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cc: Dr Walter Cox, EPA Chairman

25 JAN 2006

Hanson
RED HILL
QUARRY

Date of Photography : 31/07/05



NORTH

Not to Scale
Hvz Datum: A2024

Attachment 2 to Statement 199

Summary: Change to the west pit as described in the attached figure, in which the perimeter of the additional pit area is outlined in blue.

Date of approval: 22 September 2006



Hon Mark McGowan MLA
Minister for the Environment;
Racing and Gaming

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Our Ref: 17-009380

Ms Alyson Vinciguerra
Risk Manager
Hanson Construction Material Pty Ltd
PO Box 187
VICTORIA PARK WA 6979

Dear Ms Vinciguerra

**PROPOSED CHANGE TO PROPOSAL – RELOCATION OF HERNE HILL QUARRY,
BULLETIN 510**

Thank you for your letter dated 31 July 2006 and the accompanying document (Your Ref: HAN06_13RedHillQuarryS45CFinal) requesting amendment to the above proposal under Section 45C of the *Environmental Protection Act 1986* (EP Act).

Under Section 45C of the EP Act, the Minister for the Environment may approve a proposal being changed without it being referred to the Environmental Protection Authority (EPA), provided the change does not have a significant detrimental effect on the environment in addition to, or different from, the effect of the original proposal.

In considering the revised area for the west pit, I note that the change does not affect the definition or scope of the EPA assessed project. Furthermore, I am advised that the proposed change could be implemented in accordance with the existing environmental management controls that are drawn from the current conditions and commitments of Statements 199 and 705. Therefore, I consider that the proposed change to the proposal will not have a significant effect on the environment in the manner contemplated by Section 45C. As a result, I approve of the change to the west pit as described in the attached figure, in which the perimeter of the additional pit area is outlined in blue.

You are reminded that should Hanson Construction Materials Pty Ltd wish to extend the quarry further than the area currently approved, such a proposal should either be referred to the EPA for assessment, or approval should be sought for the extension to be subject to the existing conditions.

This approval relates to environmental requirements in Statements 199 and 705 and does not replace any responsibilities you may have for seeking approvals from other government agencies to implement the proposed change to the approved proposal.

Yours sincerely

**HON MARK MCGOWAN MLA
MINISTER FOR THE ENVIRONMENT;
RACING AND GAMING**

22 SEP 2006

Att



300 0 300 600 Meters

Approximate co-ordinates provided in GDA50

Legend

- Approved west pit
- Proposed expansion to west pit

Attachment 3 to Ministerial Statement 199

Change to Proposal under section 45C of the *Environmental Protection Act 1986*

Proposal: Relocation of Herne Hill Quarry
Proponent: Hanson Construction Materials Pty Ltd

Change: Clearing of 1 ha of vegetation for the purpose of extending the stockpile and conveyor areas.

Key Characteristics Table:

Summary of the Proposal	
Proposal title	Red Hill Quarry
Proponent name	Hanson Construction Materials Pty Ltd
Short description	The quarrying of hard rock by blasting and/or excavation by wheeled loader located at Lot 11 Toodyay Road, Red Hill, City of Swan. Quarried rock is transferred to an onsite crushing and screening plant where it is converted into various products required on the construction of buildings, roads, railways and other infrastructure.

Element	Location	Extent Authorised
1. Vegetation clearing for quarry pit, stockpiles, processing plant and infrastructure	Figure 1	92.4 ha

Element	Location	Extent Authorised
1. Processing	Figure 1	1 000 000 t/yr
2. Water supply	Onsite	Capture and reuse of stormwater

Key: ha = hectares; t/yr = tonnes per year

Dr Paul Vogel
CHAIRMAN
Environmental Protection Authority
under delegated authority

Approval date: 19 November 2012

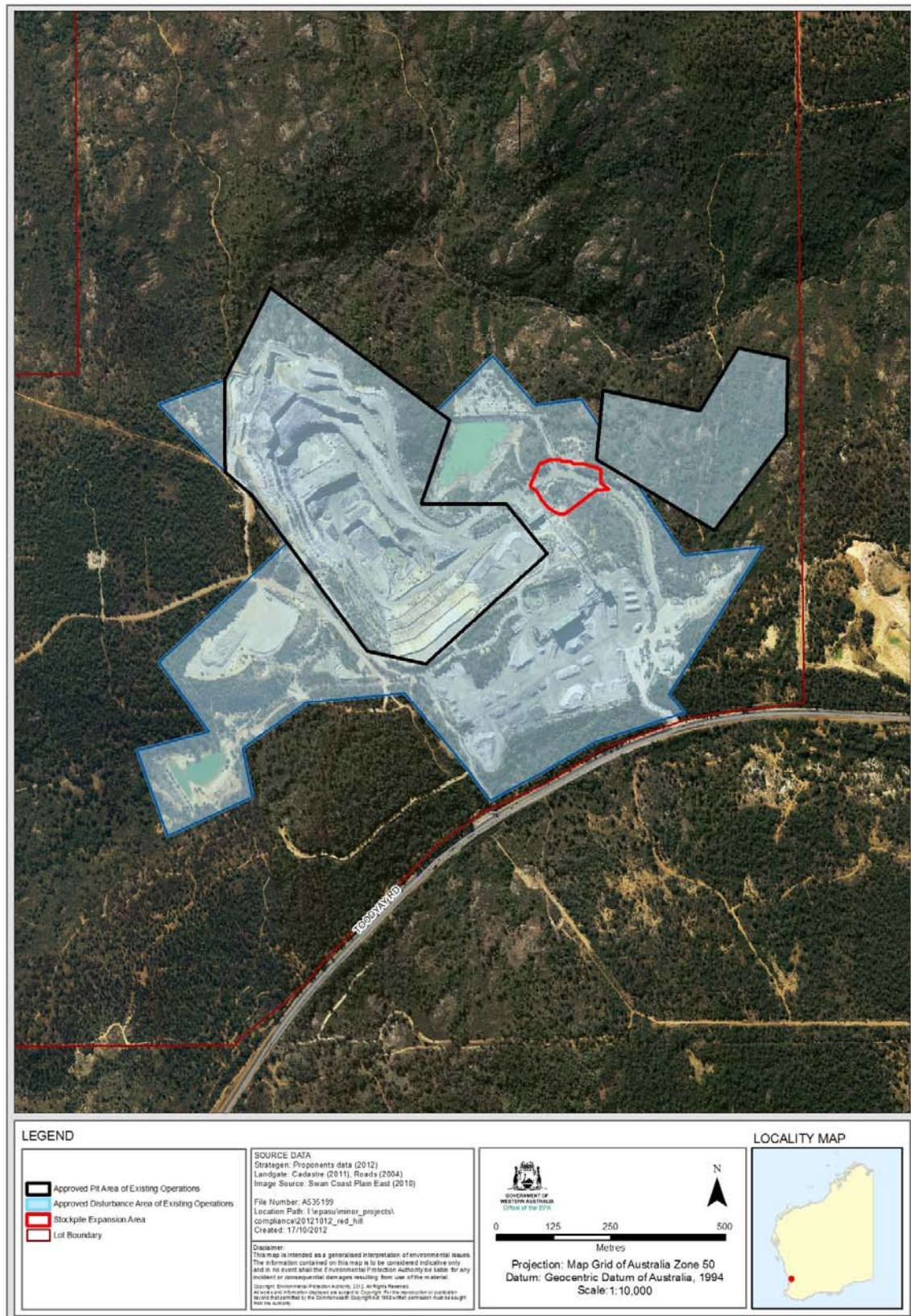


Figure 1: Proposed stockpile and conveyor expansion area – **This figure replaces all other figures in Attachments 1 and 2**