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State # 111

WESTERN AUSTRALIA
MINISTER FOR THE ENVIRONMENT

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

NEXT MAJOR WATER SUPPLY SOURCE FOR
PERTH (POST 1992) - STAGE 1

PREFERRED OPTIONS FOR NEXT HILLS WATER SOURCES

The proposal to construct a new dam on the North Dandalup River may be implemented subject to the following conditions:

1. The proponent shall adhere to the proposal for the North Dandalup River as assessed by the Environmental Protection Authority and shall fulfil the commitments made in the Environmental Review and Management Programme (copy of commitments attached).
2. Prior to construction, the proponent shall prepare and subsequently implement to the satisfaction of the Minister for the Environment on advice of the Environmental Protection Authority and the Department of Conservation and Land Management, an Environmental Management Programme for the North Dandalup dam which shall include details of the following:
 - (1) environmental consequences of road deviations;
 - (2) source of construction materials; and
 - (3) the management of environmental impacts in the reservoir, dam and immediate downstream sections of the river and valley during and following the construction phase, including the mitigation of impacts upon habitats.

Published on

3 OCT 1990

3. Prior to construction, the proponent shall prepare a plan pertaining to the management of the environmental impact of the proposal on Reserve C21038. This plan shall be prepared by the proponent in consultation with the Department of Conservation and Land Management and to the satisfaction of the Minister for the Environment on advice of the Environmental Protection Authority, and shall include the following:
 - (1) proposals for the excision of the dam wall and spillway areas from Reserve C21038;
 - (2) management of public access to the Reserve;
 - (3) impact of spillway waters on the stream zone;
 - (4) impact of the pipeline and maintenance road; and
 - (5) rehabilitation of the pipehead dam site.
4. Before final decisions are made on the raised Mundaring and raised Canning options, the proponent shall refer detailed proposals for each of these sites to the Environmental Protection Authority.

Bob Pearce, MLA
MINISTER FOR THE ENVIRONMENT

- 3 OCT 1990

**COMMITMENTS MADE BY THE WATER AUTHORITY IN THE STAGE 1
ENVIRONMENTAL REVIEW AND MANAGEMENT PROGRAMME FOR THE NEXT
MAJOR PUBLIC WATER SUPPLY SOURCE FOR PERTH (POST 1992)**

1. To minimise dust and soil erosion:
 - (1) clearing will be restricted to the minimum required for safe access and construction;
 - (2) wherever possible, existing roads will be used for clearing and construction activities;
 - (3) earthworks and other soil-disturbing activities will be carried out only during the dry summer months;
 - (4) working areas prone to dust production or other erosion will, where necessary, be surfaced or watered;
 - (5) the area upstream from the dam wall and below full supply level will be utilised, where feasible, for lay-down and other construction - related purposes and as the source of most of the sand, gravel and other available material required for construction; and
 - (6) disturbed areas not intended for long-term use will be revegetated as soon as possible. Long-term use areas include the reservoir site and passive recreation sites such as picnic areas. Topsoil from the reservoir site will be stock-piled for use in rehabilitation of other disturbed areas.
2. To minimise impacts on existing native vegetation and flora:
 - (1) additional flora and vegetation surveys will be undertaken to confirm or refine descriptions contained in this report and facilitate detailed project design causing minimum adverse impact;
 - (2) areas to be cleared will be carefully delineated;
 - (3) the construction workforce will be given specific directives to clear only within the delineated areas and to avoid unnecessary damage to vegetation;
 - (4) vehicular movement will be confined to specified roads and tracks;
 - (5) all construction operations will be subject to Department of Conservation and Land Management forest hygiene requirements; and
 - (6) liaison will be maintained with the Department of Conservation and Land Management in accordance with these requirements.
3. Rehabilitation of disturbed areas will aim to create self-sustaining systems of native species.
4. To minimise inconvenience to residents nearest the dam site and along access roads:
 - (1) noisy, heavy equipment will operate along Hines Road only during daylight hours;
 - (2) unsealed portions of roads near residences will be sealed or watered to prevent dust production; and
 - (3) residents will be fully informed of any blasting operations. Furthermore, everyone will be excluded from the danger area during shot-firing.

5. To minimise inconvenience to and adverse effects on the construction workforce:
 - (1) working areas will be sheeted with gravel or, where acceptable or preferable, watered by a water tanker fitted with sprays; and
 - (2) where appropriate, employees will be issued with equipment to protect them from unacceptable levels of dust and noise.
6. To maintain and increase the aesthetic and recreational potential of the project area:
 - (1) all oils, fuels and other chemical products will be stored and used according to the requirements of the appropriate regulations;
 - (2) special care will be exercised in the storage and handling of petroleum-based products to prevent contamination of surface soils, rock surfaces and water by oil and fuel spills;
 - (3) all wastes will be collected in a sump and trucked to an approved waste disposal site; and
 - (4) sites for picnics, barbeques, information and ablution facilities and bushwalking trails will be selected, developed and landscaped to blend in with the surrounding natural environment.
7. The Water Authority is not required by law to release any water stored behind the proposed dam. However, in view of the possible adverse impact on riparian users, the Authority will review present use of the river flow and will determine, in consultation with existing riparian landowners, a satisfactory arrangement for meeting the genuine and reasonable domestic, stock and garden watering requirements of the landowners. If the arrangement arrived at is to release prescribed flows, the amount released would not exceed the natural stream flow into the reservoir at the time and no water would be released in periods when the natural stream flow ceased altogether.
8. To minimise impacts on native fauna, an ecological study and monitoring programme will be designed and undertaken to assess stream flow-related requirements of local fish and other aquatic fauna, including exotic species, and to detect changes in their populations which might be related to operation of the dam. The information will be used for planning future water supply projects and in managing North Dandalup River flows in ways most beneficial to aquatic fauna. The aquatic investigations presently being conducted for the Water Authority by the University of Western Australia will provide a sound contribution to designing these studies and the management framework.
9. The project will be carefully designed and managed, in consultation with the Department of Conservation and Land Management, to preserve the conservation value of the remaining reserve as well as to minimise environmental impacts on the excised portion. The management measures to achieve this during the construction and operation phases of the project will be reviewed through the preparation of an appropriate plan to manage the environmental impacts of the proposal.
10. The Water Authority acknowledges its obligations to site protection as outlined in the Western Australian Aboriginal Heritage Act, 1972-80, and has accordingly sought and obtained approval from the Minister for Aboriginal Affairs to use the area at North Dandalup for development of a dam.
11. Any new sites discovered during the course of dam construction and associated work will be reported to the Registrar of Aboriginal Sites.