



WESTERN AUSTRALIA

MINISTER FOR THE ENVIRONMENT

Ass # 912

Bull # 762

State # 382

**STATEMENT TO AMEND CONDITIONS APPLYING TO A PROPOSAL
(PURSUANT TO THE PROVISIONS OF SECTION 46 OF THE
ENVIRONMENTAL PROTECTION ACT 1986)**

PROPOSAL: BEENYUP WASTEWATER OCEAN OUTLET
DUPLICATION INTO MARMION MARINE PARK
(079 / 912)

CURRENT PROPONENT: WATER AUTHORITY OF WESTERN AUSTRALIA

CONDITIONS SET ON: 13 JULY 1990

The implementation of this proposal is now subject to the following conditions which replace all previous conditions:

1 Implementation

The proponent must adhere in substance to the proposal as assessed. However, changes to the proposal which are not substantial may be carried out with the approval of the Minister for the Environment.

- 1-1 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.

2 Target Loads for Nitrogen and Phosphorus

- 2-1 The proponent shall not permit the combined mean monthly nutrient loadings within both the original and second pipelines from the Beenyup Wastewater Treatment Plant to exceed the maximum loads set for total phosphorus (plus 10 per cent) and total nitrogen for the original single outfall.

The maximum load set for total phosphorus is 913 kg per day and for total nitrogen 3.6 tonnes per day.

- 2-2 The proponent shall refer to the Environmental Protection Authority any proposal to increase the levels of nutrients discharged beyond the levels referred to in condition 2-1.
- 2-3 Prior to 31 August each year, the proponent shall submit monitoring reports to the Department of Environmental Protection, giving details of the plant performance, in relation to the mean monthly nutrient concentrations and loads in the wastewater.

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3 Nutrient Impact Studies

The proponent should undertake studies to determine the impacts of nutrients from the Beenyup outfalls.

- 3-1 Prior to 31 July 1990, the proponent shall commence a study to examine water circulation in the region of the outlets of both pipelines in order to determine the flushing characteristics of the receiving waterbody, in consultation with and to the requirements of the Department of Environmental Protection on advice of the Department of Conservation and Land Management. A complete range of conditions shall be sampled to enable calibration of an appropriate numerical model.
- 3-2 Prior to 31 July 1990, the proponent shall commence a study to examine the effects of nutrient loadings on the local marine communities, in consultation with and to the requirements of the Department of Environmental Protection on advice of the Department of Conservation and Land Management. This study shall involve at least three years of intensive effort (Phase 1) and two years of reduced effort (Phase 2).
- 3-3 Prior to commencement of the studies required by conditions 3-1 and 3-2, the proponent shall establish a Technical Advisory Group, which includes representatives from the Water Authority of Western Australia, the Department of Environmental Protection, the Fisheries Department and the Department of Conservation and Land Management, to co-ordinate the studies.
- 3-4 In the event that, due to excessive nutrient loading, the effluent causes an unacceptable environmental impact in the opinion of the Minister for the Environment on advice of the Department of Environmental Protection, the proponent shall undertake additional treatment of the effluent to further remove nutrients to a level acceptable to the Minister for the Environment.

4 Monitoring Programme

- 4-1 The proponent shall continue with the existing monitoring programme as described in the Public Environmental Report, to the requirements of the Department of Environmental Protection in consultation with the Department of Conservation and Land Management and the Fisheries Department.
- 4-2 The proponent shall submit reports on the monitoring programme referred to in condition 4-1 to the Department of Environmental Protection as outlined in the Public Environmental Report.

5 Water Quality

Condition deleted. (Matter addressed by Procedures 3 and 4).

6 Bacterial Concentrations

- 6-1 In the event that water quality criteria for bacteria in the prescribed beneficial use zones are exceeded, the proponent shall further treat the effluent to reduce bacterial concentrations.

7 Effects on Marine Biota

- 7-1 In the event that concentrations of bacteria or other contaminants introduced into the receiving water by the proponent are unacceptable, in the opinion of the Minister for the Environment, because of demonstrable effects on marine biota (especially mammals), the proponent shall take action to ensure that concentrations of contaminants are reduced to levels which are acceptable to the Minister for the Environment on advice of the Departments of Environmental Protection and Conservation and Land Management.

8 Surveys of Biota Contamination

- 8-1 The proponent shall undertake surveys, to the requirements of the Department of Environmental Protection in consultation with the Department of Conservation and Land Management and the Fisheries Department, to investigate contamination of biota (particularly the harvestable fish species of the area) by heavy metals, pesticides and by-products of the chlorination process.

These surveys shall:

- 1 incorporate an initial survey, commencing as soon as possible and to be completed before the second pipeline becomes operational, to establish current levels of contamination in a range of species; and
- 2 include follow-up surveys, to take place every three years, with a major review after 12 years.

The proponent shall forward results to the Department of Environmental Protection within six months of completion of sampling.

- 8-2 In the event that levels of contamination of biota are found to be unacceptable in the opinion of the Minister for the Environment, the proponent shall reduce concentrations of contaminants to levels which are acceptable to the Minister for the Environment on advice of the Department of Environmental Protection.

9 Approval of Pipeline Alignment

Condition deleted. (Alignment now approved and pipeline constructed).

10 Alternative to Underwater Blasting for Rock Removal

Condition deleted. (Alternative approved and rock removed).

11 Rehabilitation of On-shore Site

- 11-1 Following the completion of construction and launching of the pipeline, the proponent shall rehabilitate the onshore site to the requirements of the Department of Environmental Protection on advice of the Ministry for Planning.

12 Studies to Predict Loads and Impacts by 2040

- 12-1 Prior to 31 March 1995, the proponent shall undertake and complete studies to the requirements of the Environmental Protection Authority which:

- 1 predict the wastewater discharges and characteristics likely to occur by the year 2040 from Metropolitan Perth (including discharges from the area between Mandurah and Yanchep, inclusive); and
- 2 determine whether the waters off Metropolitan Perth have the assimilative capacity for the combined wastewater discharges predicted to occur by 2040.

13 Studies of Alternatives to Ocean Disposal

- 13-1 Prior to 31 March 1995, the proponent shall undertake and complete a study to the requirements of the Environmental Protection Authority which investigates alternatives to ocean disposal of wastewater.

14 Decommissioning

- 14-1 The proponent shall achieve satisfactory decommissioning, and if necessary, removal of the pipeline and rehabilitation of the site and its environs.
- 14-2 At least six months prior to decommissioning, the proponent shall prepare a decommissioning and rehabilitation plan.
- 14-3 The proponent shall implement the plan required by condition 14-2.

Procedure

- 1 The Department of Environmental Protection is responsible for verifying compliance with the conditions contained in this statement, with the exception of conditions stating that the proponent shall meet the requirements of either the Minister for the Environment or any other public authority.
- 2 If the Department of Environmental Protection, other public authority or proponent is in dispute concerning compliance with the conditions contained in this statement, that dispute will be determined by the Minister for the Environment.
- 3 Prior to commencing operations, the Department of Environmental Protection, on advice of the Water Authority of Western Australia, the Departments of Conservation and Land Management and Health and the Fisheries Department will identify beneficial uses and beneficial use zones for the waters in the locality of the outlets and determine a mixing zone, to the requirements of the Minister for the Environment. The water quality criteria for the beneficial use zones will be those published in Environmental Protection Authority Bulletin No 103, Water Quality Criteria for Marine and Estuarine Waters of Western Australia, April 1981, or as revised from time to time.
- 4 The allocation of beneficial uses and beneficial use zones and the mixing zone will be periodically reviewed in the light of monitoring data, to the requirements of the Minister for the Environment on advice of the Department of Environmental Protection.

Peter Foss, MLC
MINISTER FOR THE ENVIRONMENT

13 MAR 1985