



Ass # 236

Bull # 598

State # 324

WESTERN AUSTRALIA

MINISTER FOR THE ENVIRONMENT

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

**INTEGRATED WATER SUPPLY & WASTEWATER TREATMENT SYSTEM
ROTTNEST ISLAND (236)**

ROTTNEST ISLAND AUTHORITY

This proposal, excluding the bore into the Yarragadee formation and the new wastewater treatment facility, may be implemented subject to the following conditions:

1 Proponent Commitments

The proponent has made a number of environmental management commitments in order to protect the environment.

- 1-1 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 and included as Appendix 1 in Environmental Protection Authority Bulletin 598, as subsequently amended. (A copy of the commitments amended on 28 September 1993 is attached).

2 Implementation

Changes to the proposal which are not substantial may be carried out with the approval of the Minister for the Environment.

- 2-1 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.

3 Water Supply

- 3-1 The proponent shall ensure that expansion of the groundwater abstraction scheme at Wadjemup Hill does not affect freshwater flows from the aquifer.

- 3-2 The proponent may progressively increase groundwater abstraction from the Wadjemup Hill groundwater mound to a maximum of 120,000 cubic metres per annum provided that the following requirements are met:

- (1) The existing monitoring programme for the level and quality of the groundwater of the mound continues to be implemented and reviewed to ensure its effectiveness;

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- (2) Adequate monitoring of freshwater swamps and seeps to ensure the conservation and protection of the remaining freshwater swamps (eg. Barker Swamp) and seeps.
- (3) Modification of the level of abstraction from appropriate bores to permit the return of freshwater flow and quality to existing levels as soon as practical, if monitoring demonstrates any reduction in freshwater flow or quality as a consequence of groundwater abstraction; and
- (4) Preparation of a contingency plan to ameliorate the impact on fauna of any short-term reduction in available natural freshwater, prior to additional wells being equipped with pumps.

4 Treatment Plant Effluent Disposal

The salt lakes on Rottnest Island should be protected from treated effluent disposal.

- 4-1 The proponent shall not dispose of effluent from the wastewater treatment plant within the surface or groundwater catchment of the salt lakes of Rottnest Island.

5 Environmental Review of Treated Wastewater Disposal Options

Once the proponent has completed the proposed studies into the use of effluent to assist in reforestation over various areas of Rottnest Island, the preferred options should be referred to the Environmental Protection Authority.

- 5-1 The proponent shall investigate the use of treated effluent to assist in reforestation over various areas of Rottnest Island.
- 5-2 Following the completion of investigations required by condition 5-1, the proponent shall refer the preferred options to the Environmental Protection Authority.

6 Decommissioning

The satisfactory decommissioning of the project and removal of the plant and installations and rehabilitation of the project area is the responsibility of the proponent.

- 6-1 At least six months prior to decommissioning, the proponent shall prepare a decommissioning and rehabilitation plan.
- 6-2 The proponent shall implement the plan required by condition 6-1.

7 Proponent

These conditions legally apply to the nominated proponent.

- 7-1 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

The environmental approval for the proposal is limited.

- 8-1 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 Compliance Auditing

In order to ensure that environmental conditions and commitments are met, an audit system is required.

- 9-1 The proponent shall prepare periodic "Progress and Compliance Reports", to help verify the environmental performance of this project, in consultation with the Environmental Protection Authority.

Procedure

- 1 The Environmental Protection Authority 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 government agency.
- 2 If the Environmental Protection Authority, other government agency 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.

Note

The proponent will be required to apply for a Works Approval for this project under the provisions of the Environmental Protection Act.

Kevin Minson MLA
MINISTER FOR THE ENVIRONMENT

14 OCT 1993

INTEGRATED WATER SUPPLY & WASTEWATER TREATMENT SYSTEM ROTTNEST ISLAND (236)

ROTTNEST ISLAND AUTHORITY

AMENDED COMMITMENTS 28 SEPTEMBER 1993

Water Supply

1. An adequate single supply of fresh water will be established to each dwelling on Rottnest.
2. The potable water borefield will be developed to its sustainable level.
3. Potable groundwater abstraction bores will be equipped with suitably rated pumps to ensure no overpumping and the borefield will be automated with flow control of the bores.
4. Monitoring of drawdown and salinity of the bores is being and will continue to be implemented.
5. The bitumen rainfall catchment will continue to be utilized.
6. If desalination is required to supplement the potable water resource, a deep bore plus standby bore (below potable water level) will be drilled to seawater level adjacent to the tankfarm inland from the Longreach settlement.
7. A water consumption awareness programme will be initiated by the Rottnest Island Authority and will include such measures as limited use notices beside taps, automatic metered taps, duo flush cisterns, low volume shower roses and educational articles in visitor information literature.
8. Both water supply and sewage reticulation systems will be upgraded to meet the new demands placed upon them.

Wastewater Treatment

9. The Rottnest Island Authority undertakes to discontinue the present undesirable practice of discharging untreated effluent to the sea.
10. All septage systems, with the exception of those at Kingstown Environmental Education Centre and isolated outlying toilet blocks, will be connected to the central wastewater system. The Kingstown Environmental Education Centre may be added to the central wastewater system at some time in the future if required.
11. A suspended wire grid will be incorporated for bird control.
12. The plant will be fenced.

Monitoring

13. A monitoring programme will be established to ascertain whether effluent re-use can be expanded into other areas of the island (for example, for revegetation establishment).
14. Bacterial and nutrient levels of groundwater will be monitored for at least 5 years after commencement of disposal if reuse is commenced.
15. Monitoring could cease if no changes were detected within the 5 year period. However, reintroduction of monitoring would occur if disposal volume exceeded 150% of the last monitoring period.
16. Should elevated groundwater nutrient or bacterial levels become apparent, a marine monitoring programme will be commenced.

Attachment 1

NOTICE OF INTERIM IMPLEMENTATION CONDITIONS

section 46A
Environmental Protection Act 1986

Proposal: Integrated Water Supply and Wastewater Treatment System, Rottnest Island

Proponent: Rottnest Island Authority

Proponent Address: Level 1, E Shed, Victoria Quay
FREMANTLE WA 6160

Pursuant to section 46A(1) of the *Environmental Protection Act 1986*, the following Interim Implementation Conditions in this Notice are to have effect instead of implementation condition 4 of Statement 324 dated 15 October 1993.

These Interim Implementation Conditions are to be read in conjunction with Statement 324 and are 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 324 continue to have effect.

4. Treatment Plant Wastewater Irrigation

- 4-1 The proponent shall not cause the ground water quality of the Rottnest Island salt lakes catchment area to be adversely affected by nutrients or bacterial contamination.
- 4-2 The proponent shall only undertake irrigation of treated wastewater from the Waste Water Treatment Plant to the surface or groundwater catchment of the salt lakes of Rottnest Island, including the golf course and oval, in accordance with the approved monitoring and management requirements prescribed in the Nutrient and Irrigation Management Plan (NIMP) dated September 2012.
- 4-3 In the event that monitoring required by the NIMP indicates an adverse impact on the groundwater quality in the catchment of the salt lakes, the proponent shall:
- (1) cease the irrigation of treated wastewater within the catchment of the salt lakes, including the golf course and oval;
 - (2) report such findings to the CEO within 21 days of the decline being identified;
 - (3) provide information which allows determination of the cause of the adverse impact;

- (4) submit actions to be undertaken to remediate the adverse impact to the CEO within 21 days of the determination being made by the CEO if the adverse impact is determined by the CEO to be a result of activities undertaken in implementing the irrigation of treated wastewater; and
- (5) implement the actions to remediate the adverse impact in water quality upon approval of the CEO, and shall continue until such time as the CEO determines that the remedial actions may cease.
- (6) The proponent can commence irrigation of treated waste water after having received notice in writing that the CEO has determined that remedial actions may cease.

[Signed 12 October 2017]

**HON STEPHEN DAWSON MLC
MINISTER FOR ENVIRONMENT**

* 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.

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- 4-3 In the event that monitoring required by the NIMP indicates an adverse impact on the groundwater quality in the catchment of the salt lakes, the proponent shall:
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 - (2) report such findings to the CEO within 21 days of the decline being identified;
 - (3) provide information which allows determination of the cause of the adverse impact;
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- (6) the proponent can commence irrigation of treated waste water after having received notice in writing that the CEO has determined that remedial actions may cease.

[Signed 31 October 2017]

HON STEPHEN DAWSON MLC
MINISTER FOR ENVIRONMENT

* 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.