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

ONSLow SOLAR SALT PROJECT (164)
GULF HOLDINGS PTY LTD.

This proposal may be implemented subject to the following conditions:

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 Environmental Review and Management Programme for the solar salt proposal and in subsequent correspondence from the proponent to the Environmental Protection Authority. (A consolidated copy of the commitments is attached).

2. 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. The proponent shall prepare, submit and subsequently implement an Environmental Management Programme encompassing measures to monitor the environmental effects of the proposal and to provide appropriate management strategies based on the monitoring results, to the satisfaction of the Minister for the Environment, on advice from the Environmental Protection Authority. The Environmental Management Programme may be separate for each of the phases of the proposal, that is, pre-construction, construction, commissioning and operational and shall be approved by the Minister for the Environment on advice from the Environmental Protection Authority prior to the commencement of each phase. In the event of any disagreement between the proponent and the Environmental Protection Authority in relation to the Environmental Management Programme, the matter may be referred to the Minister for the Environment for determination.

4. Prior to the commencement of construction the proponent shall prepare and subsequently implement a rehabilitation plan for any disturbed areas such as borrow pits, quarries and access tracks as part of the Environmental Management Programme, to the satisfaction of the Minister for the Environment on advice from the Environmental Protection Authority and the Department of Mines.

5. The proponent shall, immediately after approval of the proposal, begin a programme to monitor all surface water flows likely to be affected by the project, with the aim of refining early predictions made in the flood studies. The monitoring programme shall be submitted to the Environmental Protection Authority for approval, on advice from the Water Authority, prior to commencement.

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6. Prior to construction of the ponds the proponent shall take appropriate steps, to the satisfaction of the Minister for the Environment on advice from the Department of Main Roads, to ensure that access on gazetted roads in the vicinity of the development will not be compromised by construction associated with this proposal, and that floodways and causeways will be protected from damage caused by changes in flood regime as a result of constructions related to this proposal.

7. Where lands are significantly adversely affected by erosion or flooding as a result of the project, the proponent shall undertake remedial measures, to the satisfaction of the Minister for the Environment.

8. Prior to the flooding of the ponds the proponent shall conduct a faunal survey of areas which would be isolated by the construction and flooding of the ponds and shall prepare and subsequently implement a plan, if appropriate as part of the Environmental Management Programme, for the relocation of any populations of vertebrate fauna which are identified as sensitive by the Department of Conservation and Land Management, or would be isolated on islands by the construction of the new ponds, to the satisfaction of the Minister for the Environment, on advice from the Environmental Protection Authority and the Department of Conservation and Land Management.

9. The proponent shall construct and manage the facility such that there are no significant indirect adverse impacts off the actual site of the solar salt facilities, including no significant indirect loss or detriment of mangroves or algal mats off site, to the satisfaction of the Environmental Protection Authority.

10. Prior to the completion of pond construction the proponent shall prepare a growth monitoring plan for mangroves off site in the Beadon Creek area, and a mangrove ecology research plan, to the satisfaction of the Environmental Protection Authority.

11. In the event that monitoring shows any areas of mangroves are likely to be or have been significantly adversely affected by the project, the proponent shall, within a timeframe to be set by the Environmental Protection Authority after consultation with the proponent, prepare and implement a plan for rehabilitation of these mangroves, to the satisfaction of the Environmental Protection Authority.

12. To ensure that Beadon Creek continues to receive freshwater overland flows, a flood water channel through the ponds shall be incorporated into the final design of the proposal, to the satisfaction of the Minister for the Environment on advice from the Environmental Protection Authority, and built at the time of construction of the ponds.

13. Pumping from Beadon Creek into the condensor ponds shall only occur on outgoing tides unless the proponent can demonstrate that other pumping regimes would have no significant adverse environmental impacts on the algal mats. To this end the proponent shall be required to undertake a programme of trials approved by the Environmental Protection Authority to demonstrate that other pumping regimes are environmentally acceptable, to the satisfaction of the Minister for the Environment. Until then and apart from these approved trials, pumping shall remain confined to outgoing tides.

14. Discharge of bitterns into Middle Creek shall occur only on outgoing tides, or into the ocean via an appropriate outfall channel, whichever is the most environmentally acceptable to the Environmental Protection Authority. Prior to construction of the crystalliser ponds the proponent shall submit to the Environmental Protection Authority a justification of the proposed option, for approval by the Environmental Protection Authority.
15. The proponent shall monitor the dilution of the bitterns between the mouth of Middle Creek and the nearby prawning area to the satisfaction of the Minister for the Environment.

16. So as to facilitate the unhindered discharge of bitterns from Middle Creek to the ocean the proponent shall be required to maintain the mouth of Middle Creek to the extent that it is kept open, to the satisfaction of the Environmental Protection Authority.

17. Any proposal for redissolution of bitterns with seawater pumped from Middle Creek shall be referred to the Environmental Protection Authority.

18. The noise abatement measures proposed by the proponent shall, where appropriate, and to the satisfaction of the Minister for the Environment on advice from the Environmental Protection Authority, be implemented. These include:
   • the appropriate placement of earth bunding;
   • the reduction of sound levels on specific noise-making machinery;
   • daytime shift-only operation of the washplant;
   • use of rubber-tyred vehicles rather than bulldozers where possible;
   • the restriction on the use of those bulldozers to the western side of the salt stockpiles from 9pm to 6am.

19. The proponent shall be required to 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;
   • 45dB(A) slow on Sunday and from 7pm to 10pm Monday to Saturday;
   • 40dB(A) slow from 10pm to 7am every day,
   when measured:
   • at any point on or adjacent to other premises not occupied by the proponent and used for residential or other noise sensitive purposes; and
   • at a height between 1.2 metres and 1.5 metres above ground level and greater than 3.5 metres from any reflecting surface other than the ground.

20. Where the combined level of the noise emissions from the project and the normal ambient noise exceeds the levels specified in condition 19, this condition shall be considered to be contravened only when the following criteria are also met at the measurement point:
   • 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.

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

22. Exemption may be granted from conditions 19 and 21 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.

23. The proponent shall, prior to commencement, submit to the Environmental Protection Authority a groundwater monitoring programme for the townsite of Onslow, to the satisfaction of the Minister for the Environment on advice from the Water Authority.
24. The proponent shall, prior to the construction of the ponds, install groundwater monitoring sites within the township of Onslow and continue to monitor these sites for a minimum period of ten years from when the ponds are filled, and take whatever action is necessary to protect Onslow's freshwater lens against saltwater encroachment from the ponds, to the satisfaction of the Minister for the Environment.

25. The proponent shall monitor the foreshores of islands created by the ponds for the effects of rising saline groundwaters and rehabilitate areas where vegetation has been subsequently lost as a result of increased salinity, by planting with salt-tolerant species, to the satisfaction of the Environmental Protection Authority.

26. The proponent shall monitor Wards Reef during dredging of the shipping channel in connection with the establishment and maintenance of the project to ensure that the reef is not in the path of the dredge plumes or silt from the dredge spoil, to the satisfaction of the Environmental Protection Authority. If this monitoring shows that the reef is receiving sedimentation as a result of the dredging this activity shall stop until an alternative plan, to the satisfaction of the Minister for the Environment, has been devised.

27. The proponent shall monitor the mouth of Beadon Creek to detect the presence of silt mobilised as a result of the dredging of the shipping channel. If, in the opinion of the Environmental Protection Authority, dredge spoil causes significant siltation of the mouth of Beadon Creek the proponent shall be responsible for the prompt removal of the obstruction, to the satisfaction of the Environmental Protection Authority on advice from the Department of Marine and Harbours.

28. Prior to the construction of the trestleway, the proponent shall prepare an oilspill contingency plan to deal with both onshore and offshore spills, to the satisfaction of the Minister for the Environment on advice from the State Committee for Combatting Marine Oil Pollution.

29. The proponent's environmental management programme shall take into account potential environmental problems associated with the activities of company or contract personnel and make appropriate arrangements for the minimisation of any impacts arising from these activities, to the satisfaction of the Environmental Protection Authority. In this context the proponent shall recognise any impacts on the prawn fishery and negotiate with the affected parties, seeking advice from the Department of Fisheries and the Department of State Development to resolve any issues which may arise.

30. 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.

31. At least six months prior to cessation of operations, the proponent shall prepare and subsequently implement a decommissioning and rehabilitation plan, to the satisfaction of the Environmental Protection Authority upon advice from the Department of Mines.

32. Should the project be placed on a care and maintenance basis, the proponent shall prepare and subsequently implement a plan for the short term care and maintenance of the project area at least three months prior to the suspension of operations, to the satisfaction of the Environmental Protection Authority on advice from the Department of Mines.
33. 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.

34. 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).

Boyd Pearce, MLA
MINISTER FOR THE ENVIRONMENT

13 AUG 1991
ONSLOW SALT PROJECT - GULF HOLDINGS PTY LTD
ENVIRONMENTAL REVIEW AND MANAGEMENT PROGRAMME
SUMMARY OF COMMITMENTS

A suitably qualified environmental supervisor will be on site at all times during the construction and commissioning phases of the project, to prepare and carry out environmental induction programmes for construction and operations workers and to ensure that work is performed in an environmentally acceptable manner.

Prior to the commencement of any site works it is the Proponent's intention to prepare a record of the current physical and biological environment by means of landsat images, aerial photographs, videos, still colour photographs, site surveys, soil samples, levels and the like as considered appropriate by the Proponent. These records will serve as a reference for claims made of any damage which has resulted from works carried out by the Proponent.

1.0 FLOODING AND EROSION

1.1 Road Access

1.1.1 Main Road

The Proponent undertakes to maintain reasonable access to Onslow such that the flood access on the causeway at Point D will not cause additional restriction to highway access beyond that caused by the existing creek crossings on the main road at Points E and F further inland.

The Proponent will ensure that changes to Causeway D do not lower the existing serviceability of the road at 20 years average return interval when overtopped and that no damage will occur to any causeway into Onslow for the 100 year flow.

1.1.2 Urala, Peedanulla Roads

The Proponent believes its works will have no impact on these gravel roads which are closed in flood time for a considerable number of days. However, the Proponent undertakes that it will reasonably do such things as are necessary to ameliorate or eliminate any impact that has been caused as a result of the project.

1.1.3 Water Authority Pipeline

In conjunction with WAWA, an all weather controlled access road will be maintained along the pipeline which will be dependent on the resolution of public liability insurance, security, ongoing maintenance and operational matters. All access to bunds and sea walls will be fenced off (Section 8.3.2.7) which will prevent access to sensitive coastal areas.
1.2 Pastoral

If as a result of the Proponent's works floodwaters backup in natural creeks and cause loss of pasture, stock, fences or other damage to pastoral property outside the Proponent's leases, the Proponent will discharge its legal obligations to compensate the pastoral leaseholder for the loss incurred.

1.3 Erosion

If detrimental scouring occurs in creek beds, creek walls or the salt flats or along the edges of islands as a direct result of the Proponent's works, the Proponent will repair and/or stabilise such erosion by stonepitching, regrading or redesign as appropriate to the reasonable satisfaction of the Minister for the Environment.

1.4 Racetrack

The Proponent commits to monitoring the situation in the area of the existing Onslow race track to determine if its works are increasing the incidence of flooding. If this can be proved the Proponent undertakes to carry out such remedial works as may be reasonably necessary e.g. a bund around the racetrack.

1.5 Indigenous Animals

The Proponent has committed to carrying out a flora and fauna survey of the islands before work commences.

If isolated islands within the ponds become over populated or fauna is endangered as a result of the Proponent's work the Proponent will undertake a study by experts of the situation to determine which animals can survive under the new conditions and which animals will need to be removed by the Proponent to the mainland or larger islands and put into effect remedial management practices.

2.0 BEADON CREEK

The Proponent has initiated a growth monitoring programme in the Beadon Creek catchment. If significant damage is occurring or seems likely to occur to mangroves as a result of the Proponent's works, the Proponent undertakes to carry out a study by experts to determine the nature of the problem and its possible remedies and to prepare and implement a plan for rehabilitation of those mangroves and algal mats to the satisfaction of the Minister e.g.

(a) restriction of pumping at high tide;
(b) irrigate creek headwaters with seawater from the creek or the first evaporation pond to promote mangrove growth;

(c) propagate mangroves in irrigated areas;

(d) construct a flood channel to allow inland floodwaters to flow through the condenser ponds to Beadon Creek.

The Proponent undertakes to carry out the most appropriate remedy to the extent reasonably necessary.

The Proponent specifically undertakes in relation to (a) and (b) as follows:

After construction of the pumping station the Proponent shall conduct pumping tests at high water spring tide and shall verify by ground survey what changes there are in tidal height and surface wetted area of algal mats under various pumping conditions.

After conclusion of these tests the Proponent's experts shall consult with the EPA to determine what restriction, if any, shall be placed on the number of pumps to be retired at or before high water spring tides, and the duration of retirement. The Proponent shall have the option to demonstrate to the satisfaction of the Minister that irrigation with seawater or similar options are equally as effective as restriction of pumping time in sustaining the mangrove and algal mat communities.

The Proponent specifically undertakes in relation to (d) as follows:

Provision for a floodwater channel through the condenser ponds will be incorporated into the final design of the proposal and should monitoring in the Beadon Creek catchment indicate that lack of freshwater overland flows is causing deleterious impact on the mangrove and algal mat communities, then the Proponent shall construct the floodwater channel to the satisfaction of the Minister.

3.0 DISCHARGE OF BITTERNS

Bitterns will be discharged in a controlled manner into Middle Creek during outgoing tides only. Monitoring will assist in determining the volume capable of being discharged without significant impact on the creek system. (Section 8.3.2.4).
Discharge of bitterns into Middle Creek should occur only on outgoing tides, or into the ocean via an appropriate outfall channel, whichever is the most environmentally acceptable. An appropriate monitoring programme for Middle and Four Mile creeks and the bitterns channel will be prepared and subsequently implemented to the satisfaction of the Environmental Protection Authority. If monitoring shows mangroves are likely to be or have been affected in the Four Mile Creek or Middle Creek systems as a result of the discharge of bitterns, or that erosion of the bitterns channel and surrounds is occurring the Proponent will prepare and implement a plan for a revised bitterns discharge regime and for rehabilitation of affected areas, to the satisfaction of the Minister.

4.0

NOISE

Noise will be maintained at or below statutory levels for residential areas through construction of bunds, work practice and design of machines. Noise will be monitored in the early stages of operation and if unacceptable levels are detected, the Proponent will take action to reduce emissions to acceptable levels. (Section 8.3.1.2, Section 8.3.2.1).

Noise levels will be monitored continuously by an automatic recorder near Clarke Place during the early stages of full scale operation to ensure that the acceptable standards and predictions are being met. The recordings will be displayed in the Supervisor's office for his attention if needed. (Section 8.4.3).

Continuous monitoring shall be for a period of 12 months whereupon the need will be reviewed and continued if necessary as agreed with the EPA.

The noise management proposal is set out fully in Appendix 1 of Bulletin 495 and summarised below:

- automatic noise level recording from a monitor stationed in Clarke Place as above;

- noise problems arising from fixed plant items will be dealt with by servicing, repairing, insulating or withdrawing as necessary;

- noise problems arising from mobile plant will be dealt with by withdrawing the equipment from service until it can be suitably muffled, or new work practices will be developed;

- rubber tyred rather than tracked machines will be used wherever practicable;
- no tracked machines will be allowed to operate on top of the stockpiles between 9 pm and 6 am, unless it can be shown that the resulting noise does not exceed acceptable levels; and

- washplant and haul trucks will initially operate on a single daylight shift.

The Proponent will ensure that the introduced noise from the project does not cause the noise in the surrounding residential areas to exceed:

- 50dB(A) from 7 am to 7 pm Monday to Saturday;
- 45dB(A) on Sunday and from 7 pm to 10 pm Monday to Saturday; and
- 40dB(A) from 10 pm to 7 am every day.

5.0 GROUNDWATER REGIME (ONSLOW)

The Proponent will install groundwater monitoring sites within the townsite of Onslow and continue to monitor these sites for a minimum period of 10 years from when the ponds are filled and take whatever action is necessary to maintain Onslow's gardens against saltwater encroachment from the ponds, to the satisfaction of the Environmental Protection Authority.

Island foreshores will be monitored for the effects of rising saline groundwaters and areas where vegetation has been subsequently lost as a result of increased salinity will be rehabilitated by planting with salt tolerant species.

6.0 MARINE IMPACTS

6.1 Dredging

Dredging will be carried out as far as possible during winter to reduce the impact of suspended sediment (Section 8.3.1.3). The plume will be monitored and if it drifts towards Wards Reef, disposal will be moved to another area. No channel blasting will be undertaken near Wards Reef without further environmental assessment by the EPA.

(a) Construction

The Proponent is committed to monitoring the dredging operation with the aim of minimising the impact on environmentally sensitive areas and the adjacent trawling grounds including the spoil banks and mouth of Beadon Creek.
Specifications will provide for spoil to be kept within the designated areas and heights stated in the ERMP and kept reasonably level. The project supervisors and dredge master will be educated on the importance and relevance of the specifications.

(b) Restricting Mouth of Beadon Creek

The spoil banks will be monitored to determine whether material is drifting towards the shore or the channel.

If material from the spoil banks is contributing to siltation at the mouth the mouth of Beadon Creek then the Proponent will:

- remove such accumulation due to its works;
- take reasonable steps to prevent such accumulation from recurring.

6.2 Shipping

Fuel will be stored and conveyed according to standard regulations. A tug/workboat with boom and skimmer and line boat permanently stationed at Onslow will be equipped to deal with marine spills. (Section 8.3.2.8).

The Proponent confirms its undertaking in the ERMP to construct all fuel facilities with the most up to-date protection measures. In addition:

(a) an oil spill contingency plan to deal with both offshore and onshore spills consistent with the then current industry standards will be in place together with all such equipment needed before the construction of the trestleway.

(b) a ballast plan consistent with the then current industry standards also be in place before any salt carrying ships are allowed to use the Proponent's jetty.

7.0 CONSTRUCTION

The Proponent's environmental management programme will take into account the potential problems associated with the disposal of rubbish and the behaviour of personnel arising from its construction camp.
A condition of the Construction Contract will specify that personnel are to keep to designated tracks and to extract material only from selected sites to reduce the impact of vehicles and quarrying on the countryside. (Section 8.3.1.4).

All access to bunds and seawalls will be fenced off (Section 8.3.2.7) which will prevent access to sensitive coastal areas.

All quarry sites will be made safe, rehabilitated and fenced off apart from those portions required for maintenance. (Section 8.3.2.5).

Borrow pits will be left in a safe, stable and rehabilitated condition as soon as possible after use, with walls battered and topsoil respread so as to encourage revegetation.

Noise and dust emissions will be managed and movement of vehicles on local roads will be minimised. (Section 8.3.1.1, Section 8.3.1.5). Roads and carparks in the vicinity of the stockpile/washplant will be sealed if necessary. The haulroad will be sheeted with gravel and watered. Construction near the town will be limited to daylight hours.

A part-time community worker will be engaged to assist the new workforce integrate with locals. (Section 8.3.1.5).

Consultation with local Aboriginal people will be ongoing during construction near known sites (Section 8.3.1.6) which will be fenced in parts where they could be accidentally damaged by Contractors plant and personnel. The Proponent will conform to the obligations of the Heritage Act.

Light emissions will be managed through design so as to have minimal impact on Back Beach and the adjacent residential area. (Section 8.3.2.2).

A tree and shrub planting programme will be initiated for the areas affected by the Project, including the new subdivision. If the Bindi Bindi community wishes to supply and maintain the trees they will be contracted to do so. (Section 8.3.2.6).

The Proponent will, subject to agreement, contribute towards the cost of upgrading the water supply main in conjunction with WAWA. (Section 3.2.10.2).

All structures and machinery will be maintained to a high standard. (Section 8.3.2.3).
8.0 REHABILITATION PLAN

At least six months before the end of the life of the project, the Proponent will prepare and subsequently implement a plan for rehabilitation addressing the entire project area, to the satisfaction of the Environmental Protection Authority. In the event of the project being placed on a care and maintenance basis, a plan to ensure that adverse environmental changes will be detected and managed to the satisfaction of the Environmental Protection Authority will be prepared and submitted to the Environmental Protection Authority at least three months prior to shutdown.

9.0 SOCIAL

9.1 Access to Jetty

The Proponent confirms its undertaking in the ERMP that the public may use the jetty at their own risk from 6.00 am to 10.00 pm whenever the jetty is not required for reasonable operational purposes. The existing level of access to Back Beach will not be restricted.

The Proponent in conjunction with the Shire will maintain third party insurance for use of the jetty and assist in maintaining Local Authority by laws on and near the jetty. If the public consistently abuse the privilege offered or damage the Proponent's property, the rights of access will be restricted or withdrawn.

9.2 Local Community Consultation

The Proponent is committed to ongoing community consultation and formal liaison and monitoring processes to be established by the Proponent to the satisfaction of the Environmental Protection Authority, upon advice from the Social Impact Unit, to monitor, review and manage the social impact of the project throughout its life.

Reporting on this liaison, monitoring and management of the social impacts will be part of the Proponent's monitoring reports to the Environmental Protection Authority.

Prior to the start of construction of each phase of the proposal, the proponent will prepare, submit and subsequently implement an Environmental Management Programme (EMP) that addresses, where appropriate, the monitoring, management and auditing and reporting requirements for community consultation, monitoring and liaison, to the satisfaction of the Environmental Protection Authority.
The Proponent will specifically (Section 7.4.2.10)

1) employ a person, in conjunction with DET, to liaise with the Aboriginal community to establish an Aboriginal Employment Action Plan;

2) create specific employment training strategies for the local community and provide opportunities for training courses in conjunction with DET. (NB. DET has committed itself to providing a community based resource person to liaise with the person in 1) above;

3) make provision to train at least two unskilled workers at all times in specific skills and tasks and provide for formal industrial training.

10.0 ENVIRONMENTAL MANAGEMENT PROGRAMME

10.1 Report

Prior to the start of construction of each phase of the proposal, the Proponent will prepare, submit and subsequently implement an Environmental Management Programme (EMP) that addresses, where appropriate, the monitoring, management, auditing and reporting requirements of the following issues:

- impacts associated with onshore and offshore construction;
- fauna survey and relocation plan for islands isolated by salt ponds;
- ongoing monitoring in Beadon, Middle and Four Mile Creek systems to safeguard the mangrove and algal mat environments;
- the mouth of Beadon Creek to maintain present access levels;
- noise levels in Onslow arising from the processing facilities;
- oilspill contingency plan to minimise impacts from onshore and offshore spills;
- groundwater salinity and levels in the town of Onslow and on susceptible islands;
- community consultation, monitoring and liaison;
- areas under rehabilitation;

to the satisfaction of the Environmental Protection Authority.
The EMP will be subdivided into the following sections:

A **Preconstruction – Baseline Data**
- Fauna Survey and Monitoring (Recommendation 5)
- Mangrove and Algal Mat Monitoring Beadon Creek (Recommendation 9)
- Groundwater Monitoring (Onslow Island) (Recommendation 13)

B **Construction Period – Including Design**
1. Construction – General – Earthworks
2. Road Access – flooding and erosion (Recommendation 3)
3. Pumping from eastern arm of Beadon Creek (Recommendation 8)
4. Algal Mat Monitoring
5. Bitterns Discharge (Recommendation 10)
6. Plant Area – noise, dust, salt, bunds, power plant, truck dump, washplant, stack, reclaim
7. Dredging – Wards Reef
   - Beadon Creek
8.1 Jetty Beach Access
8.2 Shipping, oil spill, ballast
9. Rehabilitation, tree planting
10. Social, Aboriginal Sites
11. Contributions to Onslow

10.2 **Monitoring Manual**

The Proponent will keep on site a Monitoring Manual which will contain separate sections as above for each phase of the project, the relevant baseline data, the monitoring commitments in detail, standard forms and frequencies for various tests required, management procedures necessary for different circumstances and reporting requirements.

The Manual will be designed to introduce new employees to the environmental requirements and commitments of the project. It will be available at all times to visitors from the Environmental Protection Authority or other government agencies needing such information.