

ENVIRONMENTAL MANAGEMENT SYSTEM

1. Environmental Management Plan

The Contractor shall, within 14 days of the date of Acceptance of the Tender, submit and Environmental Management Plan (“EMP”) to the Superintendent for approval in a form and in such detail as the Superintendent may require.

The EMP shall describe the measures proposed by the Contractor to ensure its construction activities are undertaken in an environmentally and economically responsible manner. The EMP shall include, as a minimum, a document indicating such matters as, but without limitation:

- The placement of site accommodation, toilets and storage compounds;
- The Contractors’ vehicle access and areas where access is to be restricted;
- The enclosure or delineation of the site for safety;
- The protection of existing vegetation;
- Methods of dust control;
- Site drainage management measures;
- Control of discharges from and within the site;
- Methods of erosion control on the site;
- Methods of controlling surface runoff from the site and discharges to watercourses or drains so that they comply with EPA requirements; and
- A waste minimisation program to divert materials from the waste stream and place a strong emphasis on recycling.

The Contractor shall comply with the EMP approved by the Superintendent.

2. SOIL CONSERVATION

All proper precautions shall be taken by the Contractor to prevent the erosion of soil by wind or water from land used or occupied by the Contractor and to prevent the deposition of soil in watercourses during execution of work under the Contract. Existing soil binding vegetation and established ground surfaces shall not be disturbed unless necessary for the purpose of constructing the works.

If in the opinion of the Superintendent, the Contractor’s operations cause erosion hazards, the Contractor shall at its own cost undertake soil conservation works in these areas when directed by the Superintendent. Soil conservation works shall include, but not be limited to, stabilisation of embankment slopes by grassing or similar means to control erosion and the construction of cut-off drains to prevent soil deposition outside the work site.

3. FIRE PRECAUTIONS

The Contractor shall provide, operate and maintain adequate fire fighting equipment for the protection of the works and its construction plant and shall take all necessary measures to prevent fire during the execution of the work under the Contract and damage to or destruction by fire of the vegetation in and surrounding the area of the work site arising from the Contractor’s operations.

The Contractor shall comply with the requirements of the Country Fire Authority Act and Regulations and shall take notice and implement appropriate strategies of any announcements by the Country Fire Authority, particularly the notification of days of

Total Fire Ban and shall ensure that all persons on the site observe these requirements.

4. CONTROL OF NOISE

The operation of all construction plant and equipment shall be such that it does not cause undue noise and that it minimises atmospheric pollution. This may require the use of sound insulated compressors and air tools or such other measure as approved by the Superintendent. In all regards, the Contractor shall comply with the requirements of the Occupational Health and Safety Code of Practice for Noise.

5. CONTROL OF GROUND VIBRATION

The operation of all construction plant and equipment shall be such that it does not cause undue ground vibration. No explosives shall be used.

6. CONTROL OF SURFACE WATER RUNOFF

The Contractor shall supply, install, maintain and operate drainage systems to remove surface water runoff and ground water from excavations from the site. The Contractor shall implement wherever practicable the recommendations set out in the Environment Protection Authority's publication *Environmental Guidelines for Major Construction Sites (1996)*.

All surface runoff and ground water from excavations shall be collected and conveyed to settling ponds and oil traps as required prior to discharge into the environment. All discharges to watercourses or drains shall meet the relevant requirements of the Environment Protection Authority, Council and Melbourne Water.

Polluted water from any source shall not be allowed to enter any watercourse, without first being settled and treated to remove the pollution.

The Contractor shall submit details of its proposed ground water and runoff control measures to the Superintendent for approval as part of the EMP.

7. CARE OF WATERCOURSES

All proper precautions shall be taken by the Contractor to prevent erosion of the bed or banks of any watercourses and to prevent the deposition in any watercourse of excavated or eroded materials that may result from the execution of the work under the Contract.

8. DISPOSAL OF VEGETATION

Whenever clearing is required under the work of the Contract, all tree stumps, roots, brush, rubbish and any objectionable matter shall be disposed of in a lawful manner. Burning of material will not be permitted unless otherwise approved in writing by the Superintendent.

9. TREATMENT OF LIQUID WASTES

The Contractor shall inspect all plant and equipment to be used on the works for oil and fuel leakage before it enters the site and shall inspect all plant and equipment daily during the period it is on the site.

Under no circumstances shall the Contractor allow any plant and equipment to enter any watercourse or allow it to continue operation within the watercourse if the item of plant and equipment is found to be leaking oil or fuel.

Entry of oil, grease or fuel into any watercourse is prohibited. Drainage from any area likely to be so contaminated shall be effectively diverted to a suitable collection point. The Contractor shall provide, operate and maintain adequate facilities for the collection of leaking fuels, lubricants, oils, greases and the like and for the transportation and lawful disposal of these materials off the site.

If pollution of the soil occurs from the Contractor's plant and equipment or from spillage of any contaminant, then all contaminated soil shall be removed from the site and disposed of in accordance with the requirements of the Environment Protection Authority.

In order to minimise the risk of polluting a watercourse all servicing and fuelling of the Contractor's plant and equipment shall be carried out at locations remote from any watercourse.

10. WASHDOWN OF PLANT AND EQUIPMENT

To assist in controlling the spread of soil borne diseases and fungi, all plant and equipment required for the construction work under the contract shall be washed down before any such plant or equipment is brought onto the site.

The wash down of plant and equipment by the Contractor shall remove all soil accumulated on the plant and equipment.

The Contractor shall also wash down all plant and equipment before the plant and equipment leaves the site.

11. DISPOSAL OF HAZARDOUS MATERIALS

All hazardous materials that are to be removed from the site shall be carefully handled, loaded, transported and disposed of in accordance with Environment Protection Authority requirements and any other legislative requirements which may be applicable to the hazardous material.

12. WASTE MINIMISATION AND RECYCLING

The goals of the waste minimisation program should be to:

- effectively manage all waste produced on site;
- reduce, reuse and recycle materials where practical and economically viable;
- provide procedures for the storage, handling and disposal of waste;
- support recycling industries by using recycled products where practical;
- increase employee and sub-contractor awareness of the program;
- develop systems to achieve ongoing improvement of the program and to promote the extension of the program to all of the Contractor's activities; and
- comply with all applicable environmental legislation and contribute to a better environment.