

PART CH50B
BITUMINOUS WORKS ENVIRONMENTAL ISSUES

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1. GENERAL

- .1 The Contractor is responsible for environmental management at the worksite and shall comply with:
 - (a) the requirements of the DPTI Environmental Code of Practice for Construction - Road, Bridge and Marine Facilities; and
 - (b) the requirements of this Part.
- .2 Copies of the Code of Practice are available from: <https://www.dit.sa.gov.au/standards>
- .3 If any damage to the environment occurs as a result of non-compliance with the requirements of the Specification, the Contractor shall reinstate the damaged area to the condition existing prior to the commencement of work. This includes, but is not limited to, damage to vegetation and contamination of soil or water. If it is not satisfactorily reinstated, the Principal will deduct damages from the Contract Sum. The amount of damages will be the cost of reinstating the damaged area to a condition comparable to that existing prior to the start of work.
- .4 The following documents are referenced in this Part:
 - (a) AS 14001 Environmental Management Systems
 - (b) DPTI "Environmental Audit Guidelines for Construction – Road, Bridge and Marine Facilities".

2. ENVIRONMENTAL MANAGEMENT SYSTEM

- .1 The Contractor shall establish, implement and maintain an Environmental Management System (EMS) in accordance with this specification and the requirements of AS 14001 "Environmental Management Systems – Specification with Guidance for use" for the duration of the Contract.
- .2 The Environmental Management System shall be used throughout the course of the contract to ensure that the environmental aspects of the Contractor's and any subcontractor's work complies with the requirements of the Contract.
- .3 No part of the Contractor's Environmental Management System shall be used to pre-empt, preclude or otherwise negate the technical requirements of the Contract. The acceptance of any part of the Contractor's Environmental Management System by the Superintendent will not in any way relieve the Contractor of the responsibility to comply with the requirements of the Contract.
- .4 In addition to the requirements of AS 14001 "Environmental Management Systems – Specification with Guidance for use" the EMS shall outline:
 - (a) The method(s) proposed to ensure the Contractor and all subcontractor's products or services comply with the Environmental requirements of the Contract Documents.
- .5 The approach to be taken regarding inspection and testing and the method of notification of all environmental aspects of the works.
- .6 The audit schedule proposed for the Contractor's Environmental Management System and work activities, and external audits proposed for subcontractors.
- .7 If not submitted beforehand, the Contractor shall submit controlled copies of the EMS prior to commencement of any works. Provision of the EMS, or any proposed amendments to the EMS, shall constitute a **HOLD POINT**. An electronic copy of controlled EMS documentation on CD is acceptable.

3. ENVIRONMENTAL MANAGEMENT

Contractor's Responsibility

- .1 The Contractor shall:
 - (a) ensure that any detrimental effects on the environment resultant from any activity associated with the Contract are kept to the minimum practicable;
 - (b) establish processes and control measures to ensure that the requirements of this clause are complied with for the duration of the Contract; and
 - (c) monitor their performance in relation to all relevant environmental matters throughout the duration of the Contract.

Induction

- .2 The Contractor shall ensure that an appropriate environmental induction process for all persons engaged in the Works is documented and implemented and that they understand and meet the environmental requirements of the project.

Monitoring and Reporting

- .3 The Contractor shall monitor their performance in relation to all relevant environmental matters throughout the duration of the Contract. The Contractor shall provide notification immediately of any notice issued on the Contractor in relation to any environmental legislation and a **HOLD POINT** shall apply.

Audits

- .4 In addition to audits arranged by the Contractor, the Contractor shall allow external audits of the Contractor and any subcontractor to be undertaken. Audits may be undertaken of the Contractor's compliance with any matter relating to the environmental requirements of this contract or legislation. The audits may be undertaken without notice at any time.
- .5 Where a non-conformance is detected during an audit, the Contractor shall take immediate action to rectify the non-conformance. Audits shall be undertaken in accordance with DPTI "Environmental Audit Guidelines for Construction – Road, Bridge and Marine Facilities".

Environmental Awareness Training

- .6 While work is being carried out on site, the Contractor shall ensure that at least 2 members of the Contractor's site team who are permanently based on site have attended "Environmental Awareness for Civil Construction Projects" training or an interstate equivalent within the last 3 years. The QMR and the site representative / site supervisor shall have attended the training.
- .7 Information about the training is available from the following web site:
https://www.dit.sa.gov.au/contractor_documents/documents/contractor_training_program

4. ENVIRONMENTAL PROTECTION ISSUES

Flora And Fauna

- .1 The Contractor shall:
 - (a) restrict all site activities to the minimum area practicable and restrict parking, storage and manoeuvring of machinery to designated areas away from any native vegetation;
 - (b) seek the Principal's approval in writing if the use of additional workspace outside designated areas is required;
 - (c) not damage or remove vegetation;
 - (d) restrict traffic to existing roads and designated access tracks;
 - (e) only stockpile materials (including excavated spoil) in areas where native vegetation will not be damaged;
 - (f) prevent the spread of weeds from any stacking site;
 - (g) not allow parking of vehicles under the drip lines of trees; and
 - (h) not allow storage of equipment or material under or against trees, or grasses, shrubs and groundcover plants.

Runoff and Sedimentation Control

- .2 The Contractor shall:
- (a) minimise the size and number of any stockpiles and the time over which stockpile surfaces are unprotected; and
 - (b) protect drainage lines at worksites and avoid stockpiling materials or disposing of excavated spoil in or across drainage lines.

Construction Noise and Vibration Control

- .3 The Contractor shall comply with DPTI Environmental Instruction 21.7 "Management of Noise and Vibration from Construction and Maintenance Activities".
- .4 Any work undertaken outside of 'normal construction hours' of:
- (a) 7.00 a.m. to 7.00 p.m. Monday to Saturday inclusive; and
 - (b) 9.00 a.m. to 7.00 p.m. on Sundays and public holidays.

requires prior approval from the Principal. Where noise sensitive receptors may be impacted by these works, the Contractor shall prepare and implement at night works management plan in accordance with DPTI Environmental Instruction 21.7.

- .5 The Contractor shall ensure that construction activities do not cause vibration induced damage to any structure or building as a result of construction activities. The Contractor is responsible for responding to any claims of vibration induced damage, which may involve providing evidence that vibration levels associated with construction activities were insufficient to cause damage. All costs associated with damage caused to existing structures, buildings and services as a result of any construction activity will be borne by the Contractor.
- .6 Where works are predicted to exceed the vibration damage targets in DPTI Environmental Instruction 21.7 for structures located adjacent the works, the Contractor shall prepare and implement a Vibration Management Plan which includes, as appropriate, vibration mitigation measures, a vibration monitoring program (including locations, timing, methodology and reporting) and identification of sites for dilapidation surveys. Submission of the Vibration Management Plan shall constitute a **HOLD POINT**.

Waste Minimisation

- .7 The Contractor shall:
- (a) collect surplus materials and used materials for recycling or disposal at a licensed facility;
 - (b) keep the worksite in a neat and tidy state; and
 - (c) minimise the generation of wastes from the Works.
- .8 Where feasible, the Contractor shall ensure different waste streams are kept separate and shall dispose of surplus material to appropriate resource recovery facilities. This applies to asphaltic planings, soils, aggregate, and waste concrete.

Storage and Handling of Dangerous and Hazardous Substances

- .9 Where dangerous and hazardous substances are to be used, the Contractor shall:
- (a) ensure that dangerous and hazardous substances are managed appropriately to avoid pollution of the environment or harm to persons;
 - (b) Develop and implement (if necessary) emergency procedures to contain spills and dispose of hazardous substances; and
 - (c) Store, handle and dispose of hazardous wastes in accordance with EPA requirements.

Dust Suppression

- .10 The Contractor shall ensure that dust generated through the removal of dust and dirt from aggregate and dust generated by the use of temporary trafficked areas in minimised.

Stack Sites

- .11 If the work under the Contract includes the use of stack sites, the Contractor shall:
- (a) ensure that the stack sites are left in a neat and tidy state, with any remaining material supplied by the Contractor removed.

- (b) avoid contamination of the stack sites by bituminous products and clean up any accidental spills in accordance with EPA requirements (including notification of the EPA).
- (c) prevent contamination of materials, leachate contamination of sites where precoated materials are used.

5. HOLD POINTS

.1 The following is a summary of Hold Points referenced in this Part:

CLAUSE REF.	HOLD POINT	RESPONSE TIME
2	Submission of EMS or proposed amendments to the EMS	7 working days
3.3	Environmental legislation notice	1 working day
