

MORTENSON®

Environmental Management Program

[Project Name]

[Project Number]

[Site Location]



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Table of Contents

1	INTRODUCTION	1
1.1	Background	1
1.1.1	Policy	2
1.2	Aim of the Program	2
1.3	Planning and Legislative Framework	2
1.4	Environmental Legislative Requirements	3
1.5	Sub-contractor's Environmental Management Plan	5
1.6	Non-compliance	6
1.7	Reporting Requirements	6
1.8	Organisation Structure	6
2	KEY SITE ISSUES	7
2.1	Environmental Setting	7
2.2	Environmental Values	7
2.2.1	Remnant Native Vegetation	7
2.2.2	Flora and Fauna Habitat	7
2.2.3	Aboriginal and Cultural Heritage	7
2.2.4	[insert other issues particular to the site]	8
3	ENVIRONMENTAL MANAGEMENT	9
3.1	Environmental Awareness Training and Induction	9
3.2	Environmental Incident Management	9
3.2.1	Identification of Key Risks	9
3.2.2	Incident Response Procedures	10
3.2.3	Fire Management	10
3.2.4	Underground Utilities [if applicable]	11
3.2.5	Emergency Contacts	11
3.3	Management of Specific Environmental Values	12
3.3.1	Flora and Fauna	12
3.3.2	Cultural Heritage	13
3.3.3	Erosion Control	13
3.3.4	Rehabilitation and Revegetation	15
3.3.5	Weed and Soil Pathogen Management	15
3.3.6	Waste Management	16
3.3.7	Disposal of Contaminated Materials	16
3.3.8	Control of Materials Likely or Known to Cause Environmental Harm	17
3.3.9	Noise Emission Control	18
3.3.10	Dust Control	18
3.3.11	Stakeholder Communication	19
3.3.12	Auditing	19
3.3.13	Records to be maintained	19
3.4	Reporting	Error! Bookmark not defined.

1 Introduction

1.1 BACKGROUND

M.A. Mortenson Company's Environmental, Health and Safety (EHS) programs are directly linked to our six values:



TRUST

We conduct business with the highest integrity.

RESPONSIBILITY

We live up to our commitments.

TEAMWORK

We respect and advance the interests of our team members, customers and colleagues.

SERVICE

Our future is secured by advancing the interest of our customers.

STEWARDSHIP

We will perpetuate the business for future generations and support the communities in which we work.

SAFETY

We are committed to eliminating all working injury. As a result of this commitment, every Mortenson team member, every Mortenson sub-contractor, supplier, architect, engineer and customer, expects to return home as healthy as when they arrived.

This plan describes Mortenson's role, responsibility and actions, as they pertain to environmental issues that may arise during construction of Wind Power Projects.

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1.1.1 Policy

It is the policy of Mortenson Australian Pty Ltd to voluntarily comply with all aspects of health, safety and environmental legislation and regulations as set out by state, federal governments and Council.

It is the policy of Mortenson Australian Pty Ltd to admit any lawfully delegated inspector or environmental or health compliance officer who, upon presentation of proper credentials from a local, state or federal regulatory agency, requests entry to conduct a site inspection.

Mortenson Australian Pty Ltd will not, under any circumstance, discharge or otherwise discriminate against any employee who has exercised any right under legislation, or any other environmental or health regulatory standard, including the right to make complaints or request a compliance inspection.

1.2 AIM OF THE PROGRAM

<< Project / Developer / Contractor >> has received development approval from the [insert regulatory authority] for the development of a [insert wind energy project]. The [project] is located [insert location].

The purpose of the [project – insert details]. The [project] will be constructed, owned and operated by [insert details].

This Environmental Management Program (EM Program) provides minimum requirements for the development of a Construction Environmental Management Plan (CEMP) for the management of environmental matters associated with construction works for the [project – insert details] (The Project). It is expected that the CEMP will address all the requirements of this EM Program and tender documentation.

The aims of this EM Program are to guide the management of environmental issues during construction by:

- documenting the environmental obligations associated with the [project], from the approving authorities as well as particular design aspects of the project works (Attachment 1). **Note: The Sub-contractor is required to complete Attachment 1.**
- defining the processes for ensuring that the environmental obligations of the project are implemented to the satisfaction of Mortenson Australia and regulatory authorities.
- defining the processes for monitoring and reporting conformance with the project environmental obligations.
- establishing processes for assessing effectiveness of environmental controls and providing continual improvement in environmental performance as the contract works progress.
- Guide the development and implementation of the Contractors Construction Environmental Management Plan.
- ensuring all employees and sub-contractors are competent and aware of their environmental obligations.

1.3 PLANNING AND LEGISLATIVE FRAMEWORK

This project has been assessed under the [insert regulatory authority approval process] as governed by the [applicable legislation].

Refer to Attachment 1 for [Permit/ Development Plan Consent Conditions].

1.4 ENVIRONMENTAL LEGISLATIVE REQUIREMENTS

In addition to the requirements of this document the following legislation and policies will be implemented and complied with:

[specific legislative requirements are to be confirmed for the project]

Tasmania

- *Aboriginal Relics Act 1975*
- *Agricultural and Veterinary Chemicals (Control of Use) Act 1995 and Regulations 1996*
- *Crown Lands Act 1976 and Regulations 1993*
- *Dangerous Goods Act 1998 and Regulations 1998*
- *Environmental Management and Pollution Control Act 1994 and Amendment Act 2000 and 2001*
- *Environmental Management and Pollution Control (Waste Management) Regulation 2000 and Amendment Regulations 2001*
- *Fire Services Act 1979 and Fire Service (Miscellaneous) Regulations 1991*
- *Historic Cultural Heritage Act 1995*
- *Land Use Planning and Approvals Act 1993*
- *Living Marine Resources Management Act 1995*
- *Marine Farming Planning Act 1995*
- *Marine and Safety Authority Act 1997*
- *National Parks and Wildlife Act 1970*
- *National Parks and Reserved Land Regulations 1999*
- *Plant Quarantine Act 1995*
- *State Policies and Projects Act 1993*
- *State Policy on Water Quality Management 1997*
- *State Policy on the Protection of Agricultural Land, 1999*
- *Environmental Protection Policy for Air Quality (Draft) 2001*
- *Tasmanian State Coastal Policy 1996*
- *Threatened Species Protection Act 1995 and Regulations 1996*
- *Water Management Act 1999*
- *Weed Management Act 1999*
- *Wildlife Regulations 1999*

South Australia

- *Development Act 1993*
- *Coast Protection Act 1972*
- *Native Vegetation Act 1991*
- *National Parks and Wildlife Act 1972*
- *Environment Protection Act 1993*

- *Aboriginal Heritage Act 1998*
- *Agricultural and Veterinary Products (Control of Use) Act 200;*
- *Water Resources Act 1997*
- *Commonwealth Aboriginal and Torres Strait Islanders Act 1984*
- *Commonwealth Environment Protection and Biodiversity Conservation Act 1999.*

New South Wales [this list is not extensive and will be dependent upon project details]

- *Environmental Planning and Assessment Act 1979*
- *Protection of the Environment Operations Act 1997*
- *Protection of the Environment Administration Act 1991*
- *Heritage Act 1977*
- *National Parks and Wildlife Act 1974*
- *Native Vegetation Act 2003*
- *Native Vegetation Conservation Act 1997*
- *Threatened Species Conservation Act 1995*
- *Coastal Protection Act 1979*
- *Waste Avoidance and Resource Recovery Act 2001*

Victoria [this list is not extensive and will be dependent upon project details]

- *Planning and Environment (General Amendment) Act 2004*
- *Environment Protection Act*
- *National Parks Act*
- *Environmental Effects Act 1978*
- *Heritage Act 1995*
- *Flora and Fauna Guarantee Act 1988*
- *Catchment and Land Protection Act 1994*

Queensland [this list is not extensive and will be dependent upon project details]

- *Environment Protection Act 1994*
- *Integrated Planning Act 1997*
- *Nature Conservation Act 1992*
- *Queensland Heritage Act 1992*
- *Coastal Protection and Management Act 1995*

Western Australia [this list is not extensive and will be dependent upon project details]

- *Town Planning and Development Act 1928*
- *Local Government Amendment Act 2004*
- *Conservation and Land Management Act 1984*
- *Wildlife Conservation Act 1950*
- *Biodiversity Conservation Act*

1.5 SUB-CONTRACTOR'S ENVIRONMENTAL MANAGEMENT PLAN

The sub-contractor will be required to prepare a Construction Environmental Management Plan (CEMP) that:

- will address, but not be limited to, all items provided in this EM Program (as described below and in Section 3).
- documents activities and measurable performance criteria associated with the management and control of all environmental aspects of the project.
- nominates the on-site person/position responsible for environmental management generally as well as for individual elements associated with environmental management activities.
- includes reference to any Environmental Management Systems and Policies the Sub-contractor may maintain.
- will be fully implemented and maintained throughout the life of the project.
- demonstrates a clear level of commitment to environmental management as this project is to be undertaken in an environmentally and culturally sensitive area.

The CEMP is subservient to this EM Program and is to be approved by Mortenson Australia prior to the commencement of works. No works are to be conducted in the absence of an approved CEMP.

The Sub-contractor is required to provide consideration of at least the following elements in preparing their CEMP.

- Compliance with the requirements of the EM Program
- Implementation of the CEMP and compliance
- Environmental awareness training and induction
- Cultural heritage
- Erosion control
- Flora and fauna
- Rehabilitation and revegetation
- Waste management
- Disposal of contaminated materials
- Control of materials likely or known to cause environmental harm
- Incidents and emergency procedures
- Emission control
- Monitoring
- Records to be maintained
- Stakeholder communication
- Non-Compliance procedures
- [to include any other project specific items that requires addressing]

1.6 NON-COMPLIANCE

The project works and Construction Environmental Management Plan will be subject to compliance auditing with this Environmental Management Program (generally at commencement, mid term and completion). Where non-compliance is determined, and depending on the severity of the non-compliance, it may be a requirement for works to cease until such time that the non-compliance is rectified or resolved. This will be at the sub-contractor's expense.

1.7 REPORTING REQUIREMENTS

The Sub-contractor is required to:

- Complete Attachment 1 for inclusion in the CEMP.
- Provide a CEMP compliance report at commencement and completion of works. This document (to be provided to Mortenson) may be in the form of a letter confirming that the approved CEMP has been fully implemented and providing brief discussion of any agreed variation to procedures and activities provided in the approved CEMP.
- Provide monthly reporting of environmental performance. This document (to be provided to Mortenson) may be in the form of dot points or a check box form that itemises activities undertaken during the previous month to implement and maintain the CEMP and will include any incidences or variances that may have occurred. This may also be documented in meeting minutes.
- [If applicable] Provide a work plan to Mortenson Australia prior to the commencement of each work phase. Each work plan will be subject to environmental review. This review process has a time consideration, accordingly, the Sub-contractor is encouraged to be sufficiently advanced in planning so as to maintain a continuous work flow.

1.8 ORGANISATION STRUCTURE

The organisational structure under which the contract shall be administered and implemented is shown below. Contact details of key personnel are as follows.

Position	Name	Telephone	E-mail
Project Manager			
Superintendent			
Site Supervisor			
Environmental Manager/Officer			
<<	>>		

The Sub-contractor is to provide an organisational structure that outlines roles and responsibilities and contact details for all key personnel. The CEMP is to provide contact details for key personnel.

2 Key Site Issues

The main environmental issues relating to the proposed construction works of the [project] have been identified in the [approval documentation].

2.1 ENVIRONMENTAL SETTING

[Insert brief description of environmental setting, including any particular sensitive issues].

2.2 ENVIRONMENTAL VALUES

The main environmental values that have been identified during the environmental assessment are outlined below.

The following sub-sections may or may not be relevant to a particular project and/or site location and should be used as a guide. These can be deleted or added too, depending on the project

2.2.1 Remnant Native Vegetation

[Document any significant flora species listed on both State threatened species legislation and/or the Commonwealth *Environmental Protection and Biodiversity Conservation Act* (EPBC Act) which were recorded as part of the botanical assessment of the site. This should include any significant communities.]

[Briefly describe vegetation communities of the project.]

[Briefly describe any wetlands identified] – if applicable

[Briefly document mitigation measures to minimise any impact on native vegetation, if applicable].

[Briefly document the potential for the spread of weeds and plant diseases through construction activities].

[List any specific permits required].

2.2.2 Flora and Fauna Habitat

[Document any significant fauna species listed on both State threatened species legislation and/or the Commonwealth *Environmental Protection and Biodiversity Conservation Act* (EPBC Act) which were recorded as part of the fauna assessment of the site.]

[Briefly describe any fauna habitat that may be disturbed during construction, including wetlands].

[List any specific permits required].

2.2.3 Aboriginal and Cultural Heritage

[Describe any significant European or Aboriginal cultural sites that are known to be present within the project area. Areas where these values have been identified as significant are to be managed as “no go” areas. The Sub-contractor will be informed of these areas. A

preliminary inspection of these locations will be undertaken prior to the commencement of works at those locations].

2.2.4 [insert other issues particular to the site]

[List any other permits/licenses required]

Issued for Internal Review

3 Environmental Management

The sub-contractor's Construction Environmental Management Plan is to include, but is not limited to, the following. The sub-contractor is encouraged to include any additional considerations that may address specific work practices or that they feel to be important.

3.1 ENVIRONMENTAL AWARENESS TRAINING AND INDUCTION

All employees and sub-contractors are required to complete a site induction before commencing work on site. The site induction is a summary of works, hazards and environmental conditions (including [insert any particular environmental issues of concern]) which apply to all employees and visitors to the site. Site induction will include reference to Mortenson safety and incident response procedures.

Mortenson Australia requires that all employees, sub-contractors and visitors are familiar with these conditions and have read the Site Induction and signed the induction register, prior to entering the site for the first time. The induction register is to be made available on request.

3.2 ENVIRONMENTAL INCIDENT MANAGEMENT

3.2.1 Identification of Key Risks

The key risk areas for environmental incidents that may occur during the construction period are expected to be:

- oil¹, fuel and chemical spills;
- vehicular and plant accidents and related spills;
- on-site fires and bush fire and destruction of native vegetation, habitat or heritage features;
- inadvertent damage to vegetation outside of the construction area; and
- [insert any particular features relevant to the site, eg Aboriginal cultural heritage]

¹ minor (<5 litres), moderate (5 to 20 litres) to major (>20 litres) – [or as otherwise indicated]

3.2.2 Incident Response Procedures

The sub-contractor is required to make their procedures for incident response, including communication, available to Mortenson Australia for approval prior to the commencement of works. In the event of an environmental incident or emergency, the following basic principles should be followed:

- identify source of the emergency, content of materials or liquids involved
- remove all personnel from the exposure zone and ensure their safety
- evaluate whether immediate action is feasible to contain the emergency, determine location and availability of materials and equipment required
- control the incident as far as possible while ensuring safety of all personnel, avoiding flow-on effects or damage to property or the environment, call for assistance as required
- report the incident to the Site Supervisor for centralising communication and control of the situation
- check to ensure that the measures have the desired effect
- record all events, actions, personnel involved, materials used and prepare the necessary material for reporting the incident as required.

The sub-contractor shall notify any incidents to Mortenson Australia immediately. In the event of a leak or spill of hazardous materials, Mortenson shall be notified immediately. Notification will include a detailed description of the incident, incident location and measures taken.

3.2.3 Fire Management

In relation to fire management the Sub-contractor is to ensure that:

- [A Fire Management Plan is prepared] – if required
- [reference appropriate state legislation] is complied with.
- A knapsack pump or extinguisher will be deployed with work crews, and serviceable fire extinguishers will be maintained on site at all times.
- All fire-ban conditions will be strictly adhered to. Chainsaws or any other machinery capable of sparking a fire will not be used on days of total fire ban.
- Spark arrestors should be fitted to vehicles and equipment during the fire danger season.
- [In some areas, petrol driven vehicles are not allowed off sealed roads, during fire-ban conditions.]
- A log of incidents will be maintained.

Fire ban information is published in newspapers and disseminated via local radio. State and Territory fire service contact details are provided below.

Fire Management Authority	Telephone	Web
Tasmania	03 6230 8600	http://www.fire.tas.gov.au
Victoria	03 9662 2311	http://www.mfbb.vic.gov.au
New South Wales (State Operations Unit)	02 9318 4351	http://www.nswfb.nsw.gov.au
Queensland Fire and Rescue Service	07 3247 8100	http://www.fire.qld.gov.au/
Northern Territory Police, Fire & Emergency Services (Darwin)	08 8946 4151	http://www.nt.gov.au/pfes/
Fire & Emergency Service Authority of Western Australia (Perth)	08 9323 9300	http://www.fesa.wa.gov.au/
South Australia Country Fire Service	08 8463 4200	http://www.cfs.org.au/
ACT Emergency Services Authority	02 6207 8444	http://www.esb.act.gov.au/

3.2.4 Underground Utilities [if applicable]

[Describe any underground utilities information that is available for the site, for example, water, stormwater, telecommunications, electrical, gas.] [List contact details]

Dial Before You Dig	Telephone	Web
	1100	http://www.dialbeforeyoudig.com.au/

Alternate service identification services are available in most areas and can be found in the Yellow Pages.

3.2.5 Emergency Contacts

Contact organisations, persons, telephones and facsimile numbers for incidents are as follows.

Organisation	Contact	Telephone	Facsimile
Mortenson			
Project Manager			
Environmental Manager			
<<Local authority>>			
<<Parks and Wildlife>>			
<<Emergency Services>>			
<<Environment			

Organisation	Contact	Telephone	Facsimile
Protection Authority>>			
<<Cultural heritage authority>>			

3.3 MANAGEMENT OF SPECIFIC ENVIRONMENTAL VALUES

The following sections require tailoring to the particular environmental values and issues of the project and site location, the points provided are indicative of issues that need inclusion, and are by no means comprehensive

Measures to manage specific environmental values are outlined in the sections below.

3.3.1 Flora and Fauna

1. [To include any permit condition requirements]
2. Any vegetation clearing/rolling works to be authorised by The Principal prior to works commencing.
3. Vegetation will be cleared by rolling and minimal pruning by an approved arboriculturalist nominated by the Principal, unless otherwise approved by Mortenson.
4. There will be no clearing or damage to vegetation that is not within the area required for construction works.
5. The sub-contractor is responsible for any damage to crops that may occur.
6. Cleared vegetation will be retained to use in revegetation works.
7. Plan deliveries to and from site to minimise impacts.
8. Vehicle access and movement of equipment will be restricted to nominated access tracks.
9. Use stock pile areas as turning points for heavy machinery. Do not attempt to insert turning points at random within native vegetation.
10. There will be no use or possession of firearms by construction personnel.
11. There will be no dogs, cats or other domestic pets on-site.
12. There will be no fires on-site.
13. Weed and soil pathogen control measures will be applied.
14. Excavation work to be fenced off at trench ends overnight, or when unattended, to prevent injury to stock or wildlife. Overnight excavations should be checked for fauna prior to commencing work the following morning. Fauna is to be released/retrieved from the excavation.

A local wildlife rescue officer is to be contacted for advice on how to progress in this circumstance. A contact for the Wildlife Rescue Service is provided below. This organisation can direct you to an appropriate local contact.

Organisation	Telephone	Web
Wildlife Rescue	02 4341 0534 or 0412 893 335	http://wildlife.animalworld.com.au/rescue.php

3.3.2 Cultural Heritage

- 1 [To include any permit condition requirements]
2. Aboriginal and/or European cultural heritage awareness will be included in the site induction. This training will be provided by [insert appropriate contact details].
3. [If applicable] Monitoring of construction works by Aboriginal Heritage Officers will occur at specific locations identified during the field survey. Identify areas if applicable.
4. Works operations and infrastructure will be kept 20m where practicable or more from sites identified as sensitive. These locations will be made known to the sub-contractor. The sub-contractor will be given an opportunity to inspect the specific locations and will be required to nominate their strategy to manage access to these areas. This will include a site sketch showing equipment set out and access.
5. In the event that artefacts, or other archaeological material, or suspected burials are uncovered during stripping, clearing or excavation, work is to cease at that location and the artefacts or other material left *in situ* to allow assessment. Mortenson site staff are to be informed immediately. Where skeletal remains are encountered the Police are to be contacted.

Any earth removed just before the discovery was made also should remain at the find location for assessment. The sub-contractor is to ensure that Mortenson Australia and the Environmental Manager is advised immediately:

- [Insert contact details]

6. Access to the sensitive areas will be restricted for all personnel.

3.3.3 Erosion Control

Prior to commencement of works:

1. An Erosion and Sedimentation Control Plan is required. The Project Manager shall submit an Erosion and Sedimentation Control Plan for approval by Mortenson and Environmental Manager. The Plan is to be prepared by a suitably qualified person.
2. Measures for the control of erosion and sedimentation (inclusive of stormwater) are to be in place.
3. Measures to prevent ingress of water and / or sediments from work sites to sink holes, or runaways, are to be in place.
4. Erosion control will be installed on access roads and will be maintained for the duration of the construction period.
5. Any measures installed for the control of erosion and drainage will be designed to meet the requirements of the site and surrounding areas, or as advised by Mortenson.

During construction works:

6. Land disturbance will be confined to the minimum possible area and will be confined to construction areas only.
7. Water leaving a work site will be filtered (by silt traps) and not allowed to discharge directly to a watercourse.
8. Discharge from installed drains shall be directed and dispersed such that erosion does not occur.
9. Stock-piled soils and other materials will be protected by stabilisation and/or silt fencing and located away from drainage lines and native vegetation. All materials should be stockpiled within a designated stockpile area approved by the Principal.
10. Installed drainage systems and sediment control structures will be visually monitored weekly, prior to forecasted rainfall events and after severe rainfall events, to ensure that run-off is being diverted successfully.
11. There shall be no disturbance to existing watercourses.
12. Where benching or excavations on slopes is required, ensure that the necessary steps are taken post works to prevent soil erosion from run-off.
13. During winter wheel ruts caused by bogged vehicles or vehicles accessing poorly drained areas should be re-instated as soon as possible.

Examples of erosion control methods:

- Diverting flow – when a disturbed area cannot be stabilized immediately, diverting runoff around the area is generally effective practice in reducing erosion and sediment transfer.
- Managing overland flow² – overland flow is best managed temporarily by silt fencing.
- Trapping sediment in channelised flow – trapping sediment in drains may be necessary to prevent pollution of local watercourses and other protected areas. Methods include: silt fencing and temporary diversions for drainage areas less than a hectare; sediment traps for areas less than 2 hectares; and sediment basins for areas less than 60 hectares.
- Mulching with cleared vegetation

Post construction:

Refer to section 3.3.4 rehabilitation and revegetation.

A directory of erosion control products and services in Australia is available through the Australasian chapter of the International Erosion Control Association.

**International Erosion
Control Association**

Web

<http://www.austieca.com.au/>

² Overland flow refers to runoff flowing as a “sheet” over the land and is not concentrated in runoff channels.

3.3.4 Rehabilitation and Revegetation

Unless otherwise specified, the sub-contractor is required to nominate a rehabilitation and revegetation contractor [if applicable]. Mortenson Australia can assist in identifying suitable contractors.

During construction works:

1. Where possible vegetation will be slashed or rolled rather than cleared.
2. Any soil or vegetation stripped will be stockpiled for later restoration works.
3. Gravel or fill imported to the site will be sourced from quarries approved by Mortenson and known or certified to be free of weeds and *Phytophthora*. This can be simplified by using gravel and fill of an alkaline nature ie. limestone based
4. All areas will be rehabilitated progressively and in a timely manner utilising local native species. Revegetation and rehabilitation as a single work item at the completion of construction is not acceptable.
5. All construction materials, damaged equipment, surplus materials and equipment wrapping will be removed from areas.
6. Methods to stabilise permanent drainage ways, established either prior or during construction, include seeding with mulch, establishing grass, geotextile reinforced grass, and rock lining.

Post construction:

7. Following construction all site work areas, including office complex and access roads, not required for ongoing maintenance shall be rehabilitated and revegetated to be representative of the pre-construction habitat. This may include planting with crops or other suitable soil binding species.
8. Rehabilitated areas shall be monitored for six months following construction to determine the effectiveness of rehabilitation and to identify the presence of weeds. Where necessary additional works will be undertaken to rectify identified shortcomings.

3.3.5 Weed and Soil Pathogen Management

1. The sub-contractor shall ensure by all practical means that the transfer of noxious weeds and soil pathogens shall not occur to or from any property as a result of the works. A weed and pathogen management strategy shall be made available to Mortenson Australia for approval prior to inclusion in the CEMP. Management during construction will focus on areas disturbed by construction activities and will aim to prevent weeds spreading to surrounding areas. This will occur through:
 - identifying areas of weed infestation prior to construction commencing and then monitoring the spread of weeds in these areas during construction;
 - surveying areas disturbed during construction for newly established weeds;
 - spraying of weeds prior to dispersal of propagules, where possible; and
 - control of subsequent weed growth will be undertaken if necessary.
2. Where *Phytophthora* is known or suspected machinery will be washed down with a quaternary disinfectant such as Phytokleen (available from Avis Chemicals DANDENONG VIC - 03 9794 5585), or equivalent, so that it is clean and free of soil or

plant material prior to the first entry to the site. The Sub-contractor shall define how this will be done.

3.3.6 Waste Management

Waste materials expected to be produced as part of the projects construction phase will include, but not be limited to the following.

Waste type	Disposal destination
Soil and rock, from excess footing material	Used as clean fill or for rehabilitation.
Packing materials, general construction waste	Recycling, where possible, or local waste disposal sites.
Waste oil and oily waste	Licensed waste oil contractors.
Other controlled waste	Appropriately licensed contractors.
General refuse	Local waste disposal sites.

1. Controlled wastes will be removed from site in a timely fashion by an appropriately licensed waste contractor.
2. A log of waste removal showing date, waste type, quantity and destination is to be maintained.
3. Disposal of all wastes is to be in accordance with relevant statutory requirements and as directed by local Council (or authority).
4. Where possible wastes are to be segregated into separate bins for recycling or disposal at an approved disposal site. Waste management will be included in site induction training to ensure all personnel are aware of the appropriate identification, segregation and labelling of waste.
5. Priority will be given to the storage and handling of controlled wastes (eg. waste oils, chemicals etc). Wastes will be stored in accordance with appropriate Australian Standards for that material (eg. AS. 1940:1993).
6. Spillage to any bunds (including contaminated rainwater collecting in bunds) will be disposed of as controlled waste using an appropriately licensed waste cartage contractor.
7. There will be no burning of any waste material on-site.
8. There will be no dumping/burying of waste (including concrete) on-site.

3.3.7 Disposal of Contaminated Materials

1. Material that is, or becomes, contaminated will be assessed for contamination levels and managed in accordance with the appropriate regulations. Any contaminated materials are to be removed from site, in accordance with legislative requirements. Removal of any contaminated material from the site can only be done with approval of Mortenson.
2. Documented evidence of certification of contamination status from a National Association of Testing Authorities (NATA) registered laboratory or approved laboratory is to be provided prior to disposal.

3. A log of contaminated materials for disposal is to be maintained showing date of excavation, quantity and destination.
4. Disposal or remediation of contaminated materials is to be in accordance with relevant statutory requirements.

3.3.8 Control of Materials Likely or Known to Cause Environmental Harm

General guidelines:

1. Hazardous materials will be managed in accordance with applicable State and Australian dangerous goods requirements and relevant standards.
2. Hazardous materials held on-site will be stored at a location nominated for the storage and handling of these materials.
3. Where possible hazardous materials (eg oils, herbicides), not required for daily operation are to be stored offsite. Off-site storage is to be in accordance with statutory requirements.
4. A register of all controlled wastes and hazardous materials (and accompanying Material Safety Data Sheets) held or used on site will be maintained.

Prior to construction:

5. All materials likely or known to cause environmental harm are to be stored in a designated, secure and bunded location that is located away from drains or waterways. Storage is to be designed, constructed and maintained in accordance with statutory requirements. These facilities are to be in place prior to works.
6. All fuels, oils (includes waste oil) and chemicals should be stored on site in approved containers, either in the trays of vehicles or an approved chemical storage area as per safety data sheets.
7. Measures to prevent ingress of water and / or contaminants from work sites to sink holes, or runaways, are to be in place.

During construction:

8. Spill kits are to be provided at all locations where pollution causing materials are held and/or used.
9. Where practicable machinery and vehicle maintenance will be at the nominated parking and servicing hard stand area.
10. Mobile fuel tanks are to be parked at the nominated fuel store and service hard stand area such as provided by a temporary mobile bund. The Mortenson is to nominate whether mobile fuel tanks are to be used.
11. Under no circumstances will a vehicle be left unattended while refuelling.
12. Equipment and machinery will not be refuelled within 50 metres of watercourses.
13. The refuelling and maintenance of construction equipment will be carried out such that waste materials can be confined, collected and removed off-site efficiently.
14. Waste oil will be recycled, where appropriate.

15. Transport of hazardous materials will be in compliance with the Australian Code for the Transport of Dangerous Goods by Road and Rail 1998 (ADG), [insert relevant state legislation] and the specific codes and standards referenced in these documents.
16. All personnel will be informed of the various hazardous materials stored on site
17. Relevant personnel will be trained in chemical and fuel handling, spill containment and clean up procedures and incident notification requirements, and will be equipped with personal protection equipment where required.
18. A register of personnel receiving training in chemical and fuel handling, spill containment and clean up procedures will be maintained and made available on request.
19. All sub-contractors using herbicides will be required to hold a [insert relevant licence/permit] issued by the [insert relevant authority].
20. Maintain all equipment on site to ensure that there are no oil or coolant leaks. Hydraulic lines in particular should be inspected daily.

3.3.9 Noise Emission Control

1. Works will be during daylight hours (0700 to 1700). Some variation to this may be required so as to take advantage of favourable weather conditions. If the sub-contractor wishes to work on Sundays this is to be agreed with Mortenson, the landowner & the principal prior to commencement. All requested for extended work hours will be processed through Mortenson.
2. Machinery and vehicles will be maintained in accordance with manufacturers specifications and will be in good repair.
3. A log of complaints will be maintained (incident notification procedure).
4. Any noise related complaint will be responded to (incident notification procedure).

3.3.10 Dust Control

[Is a dust control plan required for the site? If so,] the contractor shall submit a plan for approval by Mortenson and the Environmental Manager, prior to construction commencing.

The plan shall identify all fugitive dust sources, the description of the dust control method(s) to be used for each source, provisions for monitoring and record keeping, contact details for person responsible if an issue arises.

Dust control practices for roads include:

- Imposing vehicle speed restrictions on-site of 25 km/hr with 300 meters of a turbine or active work area and 40 km/hr within the remainder of the project site.
- Applying water sprays. The size of the water droplet must be comparable to the size of the dust particle so that the dust adheres to the water.
- Chemical dust suppressants, which are commercially available for use on most types of emission sources. All chemical dust suppressants must be submitted and approved prior to use.

A directory of dust control products and services in Australia is available through the Australasian chapter of the International Erosion Control Association.

**International Erosion
Control Association**

Web

<http://www.austieca.com.au/>

3.3.11 Stakeholder Communication

Mortenson is responsible for day to day landholder communication during the construction phase of the project. Mortenson and it's sub-contractor shall use their best efforts to ensure that good relations are maintained with property owners/occupiers.

- A record of all meetings and communications (eg. access, land usage, construction activities etc) with landholders is to be maintained.
- Report any issues discussed with landholders back to Mortenson Australia as soon as practicable following completion of investigation activities.

3.3.12 Auditing

Mortenson will undertake regular auditing of the site and systems set in place for the works to ensure that specified activities and outcomes are met. The sub-contractor is to nominate an inspection and auditing schedule.

3.3.13 Records to be maintained

A log is to be maintained for:

- Induction and environmental awareness training
- Complaints
- All communications, including with the landholders
- Inspection and auditing
- Incidents
- Waste removal (including waste oil)
- Register of controlled wastes and hazardous materials
- Disposal of contaminated materials/soils
- CEMP Non-compliance.

3.3.14 Reporting

Sub-contractor compliance with the EMP will be evidenced by the following:

- Periodic audit by Mortenson Australia.
- Monthly reporting on environmental management issues to Mortenson Australia. The sub-contractor may have, or develop, an environmental site checklist for this task or provide details through the minutes of meetings.

- Monthly meeting with The Principal
- A work plan for each phase of work is to be provided to Mortenson prior to the commencement of any works on that phase. Note that elements of this work plan may be subject to review and approval by outside stakeholders. The sub-contractor is encouraged to be sufficiently advanced in works planning to allow time for this to occur without impacting on project timelines.

Issued for Internal Review

Attachment 1

[Development Application Consent / Permit / Approval] Conditions

Attachment 1: Approval Conditions

The Sub-contractor to complete and make available to Mortenson.

Condition	Action Required by Sub-contractor	Sign off and comment
1. The development hereby approved shall be carried out strictly in accordance with the details contained in the [Development Application/approval documentation] report of [insert date and report title], other than where the contents of that report is varied by the conditions.	Prepare CEMP. Works to be in accord with CEMP.	
2.		
3.		
4.		
5.		
6.		
7.		
8.		
9.		
10.		

Attachment 2

Landowner Contact Details

Issued for Internal Review

Attachment 3: Landowner Contact Details

Registered Proprietor (Name)	Address	Phone no. / Contact details	Property Details	Title Details

Attachment 3

[insert attachment information, if any]