

## Scope

The following sections presents protocols to be implemented at the site during construction activities. The relevance and effectiveness of these protocols should be reviewed daily during the works programme.

## Works Notification

Timaru District Council will be notified in writing 10 days prior to earthworks commencing on-site.

## Site Set-up

Prior to commencing excavation work, the Contractor shall ensure that the earthwork area(s) are set up to aid in the management aspects of health, safety and environmental compliance. These requirements include the following:

- Signage, including work information, and health and safety requirements.
- Security fencing preventing unauthorised access to the site.
- Establishment of health and safety facilities such as first aid points.
- Establishment of erosion, sediment and dust control measures as described below.

## Health and Safety

The primary contractor shall prepare a health and safety plan that includes procedures and equipment for minimising risks associated with site hazards. The health and safety plan shall include, but not be limited to, the procedures and equipment outlined in this section.

### Personal Protective Equipment

In accordance with standard construction requirements, hard hats, steel capped boots and high visibility jackets shall be worn by all workers during all site works.

### Worker Site Induction

Before controlled activities commence, all site personnel are to be briefed regarding the potential exposure at the site to health and safety hazards.

## Disposal of Surplus Excavated Material

Surplus excavated material will be disposed of within the site for the landscaping or spread across the site.

### **Environmental Control (Air, Land and Water)**

To minimise the potential for adverse effects to human health or the environment resulting from the site works, a series of protective measures shall be put in place during any soil disturbance activities.

#### Dust and Odours

Site works shall be carried out so that they do not result in any odours or airborne and deposited dust beyond the property boundary of the site that is determined to be noxious, objectionable or offensive. Generation of dusts shall be appropriately managed by employing standard dust suppression techniques:

- dampening down using water sprays;
- where stockpiling is necessary, the material will be kept damp to avoid dust generation and covered if left overnight;
- any additional relevant dust mitigation measures such as those described in the Ministry for the Environment (2001) *Good Practice Guide for Assessing and Managing the Environmental Effects of Dust Emissions*.

Offensive odours are not expected to be of concern during the project.

#### Sediment and Erosion

Earthworks shall be undertaken in accordance with the Environment Canterbury Erosion and Sediment Control Toolbox for Canterbury. Compliance with the procedures set out in this toolbox should be sufficient to manage the risks from sediment and erosion during the excavation works.

As a minimum the following control measures will be undertaken:

- effort shall be made to undertake the excavation works in a period of dry weather to minimise the risks of stormwater entering the excavations or contaminated water escaping from the excavations;
- erosion and sediment controls shall be put in place around the excavations as necessary to inhibit soil/sediment from being transported away from the area;
- trucks used to transport soil offsite must be covered.

#### Hours of Operation

Hours of operation will be from 7am to 6pm Monday to Saturday. Heavy vehicles associated with construction activities on the site must avoid passing Geraldine Primary school during school pick up and drop off times.

### Noise

Construction noise shall not exceed the recommended limits in and shall be measured and assessed in accordance with the provisions of New Zealand Standard 6803P:1984. The measurement and assessment of noise from construction, maintenance, and demolition work.

### **Complaints**

Any complaints received in relation to earthworks activities will be kept in a log book and will also be forwarded to Timaru District Council. The contractor will take reasonable steps to investigate the complaint and address any regulatory non-compliance.

### **Discovery of Unexpected Contamination**

In the event that the Contractor or any other site workers encounter any contamination of unknown origin, including but not limited to underground storage tanks, waste fuel or chemical drums, asbestos, buried wastes, or soil containing obvious contamination (odours or staining), the area should be evacuated and secured immediately with no further access allowed to that portion of the site until appropriate response and control measures can be implemented as follows:

- if it appears that there is an immediate risk to workers and/or the environment (for example leaking containers, strong odours or any observed health effects), emergency services should be contacted and a HAZMAT response requested;
- if the contamination does not appear to present an immediate risk to workers and/or the environment, the client should be informed of the discovery so that an appropriate assessment can be undertaken by suitably qualified and experienced practitioner.