

18. CONSTRUCTION

18.1 INTRODUCTION

As outlined throughout this EIS and in detail in Chapter 1 Introduction, a number of proposed amendments to the existing waste to energy facility are sought by this application. These amendments will entail some very minor construction works.

This section details the construction works required for the proposed amendments and indicates the mitigation measures to be implemented to ensure that potential environmental impacts are minimised.

18.2 PROPOSED WORKS

From a construction perspective, the majority of the proposed physical amendments relates to the change of status of existing temporary structures to permanent status and will therefore only require connection to roadways, drainage systems, installation of footpaths, hardstanding, car parking spaces etc. A new domestic effluent treatment is required for the modular office block. Please refer to Chapter 5 for full details.

18.3 SITE EVALUATION

Multiple site investigations and geotechnical assessments of the site have been completed at the site between 2001 and 2009. Relevant details of these site investigations are included in Section 9 Soils and Geology.

18.4 DURATION AND PHASING

The construction of the primary structure at the facility i.e. the Waste to Energy facility process buildings commenced in June 2009 and was completed in October 2011.

Due to the small scale of the construction works proposed by this application limited preparatory works if any will be required. For the proposed amendments outlined above it is anticipated that all construction works will be completed in one phase and in approximately 2 months.

18.5 CONSTRUCTION TECHNIQUES, MATERIALS AND PLANT

The construction techniques used will be standard and similar to those that would normally be associated with any small scale civil engineering project. Minimal heavy plant will be required but may include;

- Tracked or wheeled excavators
- Teleporters
- Delivery vehicles for concrete and materials

In so far as possible, construction materials will be from local sources. All imported material that will be used on site will be from approved sources.

18.6 EMPLOYMENT

The proposed amendments will require up to 10 construction workers on a temporary basis (in addition to the 44 operational staff currently employed at the site full time).

18.7 ACCOMMODATION/FACILITIES

All necessary staff facilities will be provided for construction workers for the duration of works including:

- Canteen facilities and First Aid Office
- Toilet, wash up and locker facilities and hot water
- Car parking

18.8 CONSTRUCTION OPERATION HOURS

The site construction working hours will be confined to between 0700 and 1900 hours Monday to Saturday, inclusive (excluding public holidays and Sundays). Working hours may vary slightly depending on weather conditions and daylight hours during winter months.

18.9 DRAINAGE WORKS

The drainage works will consist of the provision of alterations/extensions to the existing systems as follows:

Foul drainage:

Foul drainage from the modular office building will be discharged to a new Puraflo® Treatment system which will be located to the east of the building complete with a new percolation area.

Storm water drainage:

Storm water drainage for the new road, car parking and the roofs of the buildings will be routed to the existing system via new drainage lines. In all cases the runoff will be discharged through the storm water attenuation tank and monitoring station.

18.10 WASTE MANAGEMENT

It is anticipated given the nature of the works that minimal construction wastes will be produced at the facility. It is not envisaged that there will be any significant amounts of spoil from construction. All solid waste generated during the construction phase will be adequately stored prior to transfer to an authorised facility for recovery/recycling/disposal.

18.11 FENCING AND SECURITY

The existing facility is fenced and manned security provided. Temporary fencing will be erected around all construction works for their duration. No additional measures are proposed.

18.12 NOISE, VIBRATION AND DUST

Dust emissions during the construction period are expected to be minimal and short in duration as outlined in Chapter 7 Air Quality. Baseline and proposed noise and vibration emissions from construction are presented in Chapter 8 Noise & Vibration.

18.13 TEMPORARY ENVIRONMENTAL PROTECTION MEASURES

Construction works completed at the site are to be small scale and short in duration. All construction works will be completed in accordance with the environmental management plan for the site and the facility licence. The facility licence and the monitoring regime set out by it ensures that all potential nuisances (including traffic management, dust, noise, vibration, litter etc) are managed in accordance with best practice.

18.14 POTENTIAL IMPACTS

Good housekeeping and management during the construction period, including the implementation of the existing site environmental management plan and monitoring regime on the site will ensure that there will be no negative environmental impacts from the construction of the proposed amendments.