SDCC Rathcoole Housing Development

Environmental Impact Assessment Report (EIAR)
Chapter 17: Waste

South Dublin County Council (SDCC)

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Quality information

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Table of Contents

17 Waste 1
17.1 Introduction 1
17.2 Mitigation Measures 1
17.2.1 Construction Phase 1
17.2.2 Operational Phase 2

17 Waste

17.1 Introduction

This chapter of the Environmental Impact Assessment Report (EIAR) identifies and summarises construction and operational waste arisings and outlines the mitigation measures that will be employed.

For the purpose of this EIAR, waste is defined as per the European Waste Framework Directive (Directive 2008/98/EC) as "*any substance or object which the holder discards or intends or is required to discard*".

The chapter is supported by the following appendices:

Appendix 17-1: Resource and Waste Management Plan (RWMP) (EIAR Volume II); and

Appendix 17-2: Operational Waste Management Plan (OWMP) (EIAR Volume II).

As outlined in the Scoping Report Section 17 Materials Assets (Waste), a development project would have to meet the following for a material assets – waste effect to be considered significant:

- Achieves less than 60% overall material recovery/recycling (by weight) of non-hazardous construction and demolition (C&D) waste, excluding naturally occurring material defined in category 17 05 04 in the List of Wastes; and
- Project waste arisings are more than 5% of national waste arisings (for the relevant categories of waste).

The Scoping Report concluded that considering the above and using professional judgement, given the nature and scale of the Proposed Development it is not expected to give rise to significant waste effects that would warrant detailed assessment within the EIAR. Accordingly, **waste was scoped out of the detailed assessment in the EIAR**. This chapter therefore provides a proportionate summary of anticipated waste arisings and the measures proposed for their management during Proposed Development construction and operation, with further detail provided in Appendices 17-1 and 17-2.

Waste generation during Proposed Development construction will be typical of residential development projects and will be managed through adherence to the waste hierarchy (refer to Plate 17-1), as well as standard and good practice mitigation measures. The Applicant is committed to implementing the RWMP and OWMP in full, with regular monitoring and reporting to ensure compliance with all relevant waste legislation and environmental standards.

The construction of the Proposed Development is anticipated to generate approximately 25,764 m^3 (approximately 8,244 tonnes based on waste density of 0.32 tonnes per m^3) (WRAP Waste Volume to Mass Conversion Factors, 2014) of construction waste and approximately 65,971 m^3 of excavated material.

Operation of the Proposed Development is anticipated to generate approximately 24,480 litres of municipal waste per week, equivalent to approximately 267 tonnes per year (based on a waste density of 0.21 tonnes per m^3) (WRAP Waste Volume to Mass Conversion Factors, 2014).

17.2 Mitigation Measures

Waste generated by the Proposed Development will be managed in accordance with the waste hierarchy, prioritising prevention and reuse, followed by recycling and recovery, with disposal used as a last resort. Detailed measures for the Proposed Development construction and operational phases are set out in the RWMP and OWMP, respectively.

17.2.1 Construction Phase

A Resource and Waste Management Plan (RWMP) has been prepared for the Proposed Development and is provided in **Appendix 17-1**. The RWMP has been prepared in accordance with the EPA's Best Practice Guidelines for the Preparation of Resource & Waste Management Plans for Construction & Demolition

Projects (2021) and sets out the measures for the prevention and management of construction waste and excavated materials.

Construction waste and materials will be managed in accordance with the waste hierarchy, with priority given to the prevention and reduction of waste generation, followed by reuse, recycling and recovery, where suitable and practicable. Measures identified in the RWMP include the efficient use of materials, off-site prefabrication where feasible, segregation of waste streams, reuse of suitable excavated materials, and identification of appropriate reuse, recycling, recovery or disposal routes. The estimated quantities of construction waste and excavated materials, together with their anticipated management routes, are presented in the RWMP.

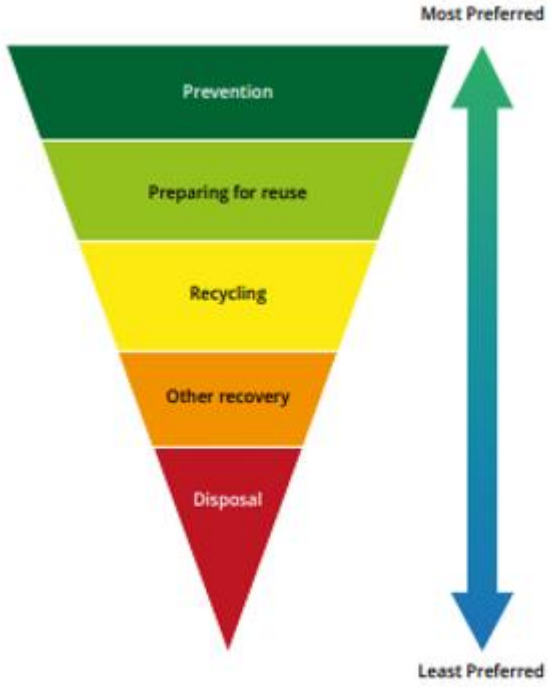


Plate 17-1: The Waste Hierarchy

Prior to the commencement of Proposed Development construction, the Contractor will prepare and implement a Contractor's RWMP, having regard to the RWMP provided in **Appendix 17-1** and the EPA (2021) Guidelines. The Contractor's RWMP will be maintained as a live document throughout the construction phase and will include procedures for monitoring, recording and managing waste and material arisings and their respective management routes.

Opportunities for the prevention, reuse, recycling and recovery of construction materials, including excavated material, will be identified and implemented where suitable and practicable. Where excavated material is proposed for beneficial use as a by-product and the applicable regulatory requirements are satisfied, the relevant Article 27 notification requirements will be followed.

17.2.2 Operational Phase

An Operational Waste Management Plan (OWMP) has been prepared for the Proposed Development and is provided in **Appendix 17-2.** The OWMP sets out the proposed arrangements for the segregation, storage, management and collection of operational waste, including residual, recyclable, food and bulky waste streams.

The OWMP identifies the operational waste storage requirements for the residential development and describes the proposed waste storage and collection arrangements. Plans identifying the locations and layouts of the proposed waste storage areas are also provided within the OWMP.