minimum of 70% of waste is fully re-used, recycled or recovered. Target setting will inform the setting of project-specific benchmarks to track target progress. Typical Key Performance Indicators (KPIs) that may be used to set targets include (as per

- Weight (tonnes) or Volume (m³) of waste generated per construction value;
- Weight (tonnes) or Volume (m³) of waste generated per construction floor area (m²);
- Fraction of resource reused on site;

quidelines):

- Fraction of resource notified as by-product;
- Fraction of waste segregated at source before being sent off-site for recycling/recovery; and
- Fraction of waste recovered, fraction of waste recycled, or fraction of waste disposed.

6.2 Main Construction and Demolition Waste Categories

The main non-hazardous and hazardous waste streams that could be generated by the construction activities at a typical site are shown in Table 6.1. The List of Waste (LoW) code (applicable as of 1 June 2015) (also referred to as the European Waste Code (EWC)) for each waste stream is also shown.

Table 6.1 Typical waste types generated and LoW codes (individual waste types may contain hazardous substances)

Waste Material	LoW/EWC Code
Concrete, bricks, tiles, ceramics	17 01 01-03 & 07
Wood, glass and plastic	17 02 01-03
Treated wood, glass, plastic, containing hazardous substances	17-02-04*
Bituminous mixtures, coal tar and tarred products	17 03 01*, 02 & 03*
Metals (including their alloys) and cable	17 04 01-11
Soil and stones	17 05 03* & 04
Gypsum-based construction material	17 08 01* & 02
Paper and cardboard	20 01 01
Mixed C&D waste	17 09 04
Green waste	20 02 01
Electrical and electronic components	20 01 35 & 36
Batteries and accumulators	20 01 33 & 34
Liquid fuels	13 07 01-10
Chemicals (solvents, pesticides, paints, adhesives, detergents etc.)	20 01 13, 19, 27-30
Insulation materials	17 06 04
Organic (food) waste	20 01 08
Mixed Municipal Waste	20 03 01

^{*} individual waste type may contain hazardous substances

7.0 WASTE MANAGEMENT

7.1 Demolition Waste Generation

Demolition works at the site will involve the demolition and renovation of the buildings onsite. Demolition figures published by the EPA in the 'National Waste Reports' 14 and

data from previous projects have been used to estimate the approximate break-down for indicative reuse (offsite), recycling and disposal targets of demolition waste. The quantities of waste material have been supplied by the project architects (O'Mahony Pike Architects) This breakdown is shown in Table 7.1.

Table 7.1: Predicted on and off-site reuse, recycle and disposal rates for demolition waste

	Total Waste	Reuse		Recycle/Recovery		Disposal	
Waste Types	Tonnes	% Tonnes		% Tonnes		% Tonnes	
Glass	266.3	0	0.0	85	226.3	15	39.9
Concrete, Bricks, Tiles, Ceramics	1508.9	30	452.7	65	980.8	5	75.4
Plasterboard	118.3	30	35.5	60	71.0	10	11.8
Asphalts	29.6	0	0.0	25	7.4	75	22.2
Metals	443.8	5	22.2	80	355.0	15	66.6
Slate	236.7	0	0.0	85	201.2	15	35.5
Timber	355.0	10	35.5	60	213.0	30	106.5
Asbestos	1.0	0	0.0	0	0.0	100	1.0
Total	2959.6		545.9		2054.7		359.0

7.2 Construction Waste Generation

The below Table 7.2 shows the breakdown of C&D waste types produced on a typical site based on data from the EPA *National Waste Reports* ¹⁴ *and the joint EPA & GMIT study* ¹⁵, along with other research reports.

Table 7.2: Waste materials generated on a typical Irish construction site

Waste Types	%
Mixed C&D	33
Timber	28
Plasterboard	10
Metals	8
Concrete	6
Other	15
Total	100

The Table 7.3 below shows the estimated construction waste generation for the development based on the gross floor area of construction and other information available to date, along with indicative targets for management of the waste streams. The estimated waste amounts for the main waste types (with the exception of soils and stones) are based on an average large-scale development waste generation rate per m², using the waste breakdown rates shown in Table 7.2. These have been calculated from the schedule of development areas provided by the architect.

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Table 7.3: Predicted on and off-site reuse, recycle and disposal rates for construction waste

Waste Type	Total Waste	R	Reuse		Recycle/Recovery		Disposal	
	Tonnes	%	Tonnes	%	Tonnes	%	Tonnes	
Mixed C&D	1124.3	10	112.4	80	899.4	10	112.4	
Timber	953.9	40	381.6	55	524.7	5	47.7	
Plasterboard	340.7	30	102.2	60	204.4	10	34.1	
Metals	272.6	5	13.6	90	245.3	5	13.6	
Concrete	204.4	30	61.3	65	132.9	5	10.2	
Other	511.0	20	102.2	60	306.6	20	102.2	
Total	3406.9		773.4		2313.3		320.2	

In addition to the information in Table 7.3, there will be between 74,000m3 and 80,000m³ of soil, stones, clay and made ground excavated to facilitate construction of new foundations, underground services, and the installation of the proposed basement. Any suitable excavated material will be temporarily stockpiled for reuse as fill or landscaping, where possible, but reuse on site is expected to be limited and all of the excavated material except for 10,000m³ is expected to be removed offsite for appropriate reuse, recovery and/or disposal.

It should be noted that until final materials and detailed construction methodologies have been confirmed, it is difficult to predict with a high level of accuracy the construction waste that will be generated from the proposed works as the exact materials and quantities may be subject to some degree of change and variation during the construction process.

7.3 Proposed Resource and Waste Management Options

Waste materials generated will be segregated on site, where it is practical. Where the on-site segregation of certain wastes types is not practical, off-site segregation will be carried out. There will be skips and receptacles provided to facilitate segregation at source where feasible. All waste receptacles leaving site will be covered or enclosed. The appointed waste contractor will collect and transfer the wastes as receptacles are filled. There are numerous waste contractors in the Dublin Region that provide this service.

All waste arising's will be handled by an approved waste contractor holding a current waste collection permit. All waste arising's requiring disposal off-site will be reused, recycled, recovered or disposed of at a facility holding the appropriate registration, permit or licence, as required.

During construction some of the sub-contractors on site will generate waste in relatively low quantities. The transportation of non-hazardous waste by persons who are not directly involved with the waste business, at weights less than or equal to 2 tonnes, and in vehicles not designed for the carriage of waste, are exempt from the requirement to have a waste collection permit (Ref. Article 30 (1) (b) of the Waste Collection Permit Regulations 2007 as amended). Any sub-contractors engaged that do not generate more than 2 tonnes of waste at any one time can transport this waste offsite in their work vehicles (which are not design for the carriage of waste). However, they are required to ensure that the receiving facility has the appropriate COR / permit / licence.

Written records will be maintained by the contractor(s) detailing the waste arising throughout the C&D phases, the classification of each waste type, waste collection permits for all waste contactors who collect waste from the site and COR/permit or

licence for the receiving waste facility for all waste removed off site for appropriate reuse, recycling, recovery and/or disposal.

Dedicated bunded storage containers will be provided for hazardous wastes which may arise such as batteries, paints, oils, chemicals etc, if required.

The anticipated management of the main waste streams is outlined as follows:

Soil, Stone, Gravel and Clay

The waste hierarchy states that the preferred option for waste management is prevention and minimisation of waste, followed by preparing for reuse and recycling / recovery, energy recovery (i.e. incineration) and, least favoured of all, disposal. The excavations are required to facilitate construction works so the preferred option (prevention and minimisation) cannot be accommodated for the excavation phase.

When material is removed off-site it could be reused as a by-product (and not as a waste). If this is done, it will be done in accordance with Regulation 27 (By-products), as amended, of S.I. No. 323/2020 - European Union (Waste Directive) Regulations 2011-2020, (Previously Article 27 of the European Communities (Waste Directive)), which requires that certain conditions are met and that by-product notifications are made to the EPA via their online notification form. Excavated material should not be removed from site until approval from the EPA has been received. The potential to reuse material as a by-product will be confirmed during the course of the excavation works, with the objective of eliminating any unnecessary disposal of material.

The next option (beneficial reuse) may be appropriate for the excavated material, pending environmental testing to classify the material as hazardous or non-hazardous in accordance with the EPA Waste Classification – List of Waste & Determining if Waste is Hazardous or Non-Hazardous publication. Clean inert material may be used as fill material in other construction projects or engineering fill for waste licensed sites. Beneficial reuse of surplus excavation material as engineering fill may be subject to further testing to determine if materials meet the specific engineering standards for their proposed end use.

Any nearby sites requiring clean fill/capping material will be contacted to investigate reuse opportunities for clean and inert material. If any of the material is to be reused on another site as a by-product (and not as a waste), this will be done in accordance with Regulation 27. Similarly, if any soils/stones are imported onto the site from another construction site as a by-product, this will also be done in accordance with Regulation 27. Regulation 27 will be investigated to see if the material can be imported onto this site for beneficial reuse instead of using virgin materials.

If the material is deemed to be a waste, then removal and reuse / recovery / disposal of the material will be carried out in accordance with the Waste Management Act 1996 as amended, the Waste Management (Collection Permit) Regulations 2007 as amended and the Waste Management (Facility Permit & Registration) Regulations 2007 as amended. Once all available beneficial reuse options have been exhausted, the options of recycling and recovery at waste permitted and licensed sites will be considered.

In the event that contaminated material is encountered and subsequently classified as hazardous, this material will be stored separately to any non-hazardous material. It will require off-site treatment at a suitable facility or disposal abroad via Transfrontier Shipment of Wastes (TFS).

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Bedrock

While it is not envisaged that bedrock will be encountered, if bedrock is encountered, it is anticipated that it will not be crushed on site. Any excavated rock is expected to be removed offsite for appropriate reuse, recovery and/or disposal. If bedrock is to be crushed onsite the appropriate mobile waste facility permit will be obtained from DCC.

Silt & Sludge

During the construction phase, silt and petrochemical interception should be carried out on runoff and pumped water from site works, where required. Sludge and silt will then be collected by a suitably licensed contractor and removed offsite.

Concrete Blocks, Bricks, Tiles & Ceramics

The majority of concrete blocks, bricks, tiles and ceramics generated as part of the construction works are expected to be clean, inert material and should be recycled, where possible. If concrete is to be crushed onsite the appropriate mobile waste facility permit will be obtained from DCC.

Hard Plastic

As hard plastic is a highly recyclable material, much of the plastic generated will be primarily from material off-cuts. All recyclable plastic will be segregated and recycled, where possible.

Timber

Timber that is uncontaminated, i.e. free from paints, preservatives, glues etc., will be disposed of in a separate skip and recycled off-site.

Metal

Metals will be segregated where practical and stored in skips. Metal is highly recyclable and there are numerous companies that will accept these materials.

Plasterboard

There are currently a number of recycling services for plasterboard in Ireland. Plasterboard from the construction phases will be stored in a separate skip, pending collection for recycling. The site manager will ensure that oversupply of new plasterboard is carefully monitored to minimise waste.

Glass

Glass materials will be segregated for recycling, where possible.

Waste Electrical and Electronic Equipment (WEEE)

Any WEEE will be stored in dedicated covered cages/receptacles/pallets pending collection for recycling.

Other Recyclables

Where any other recyclable wastes such as cardboard and soft plastic are generated, these will be segregated at source into dedicated skips and removed off-site.

Non-Recyclable Waste

C&D waste which is not suitable for reuse or recovery, such as polystyrene, some plastics and some cardboards, will be placed in separate skips or other receptacles.

Prior to removal from site, the non-recyclable waste skip/receptacle will be examined by a member of the waste team (see Section 10.0) to determine if recyclable materials have been placed in there by mistake. If this is the case, efforts will be made to determine the cause of the waste not being segregated correctly and recyclable waste will be removed and placed into the appropriate receptacle.

Asbestos Containing Materials

Any asbestos or ACM found onsite will be removed by a suitably competent contractor and disposed of as asbestos waste before the demolition works begin. All asbestos removal work or encapsulation work must be carried out in accordance with S.I. No. 386 of 2006 Safety, Health and Welfare at Work (Exposure to Asbestos) Regulations 2006-2010.

Other Hazardous Wastes

On-site storage of any hazardous wastes produced (i.e. contaminated soil if encountered and/or waste fuels) will be kept to a minimum, with removal off-site organised on a regular basis. Storage of all hazardous wastes on-site will be undertaken so as to minimise exposure to on-site personnel and the public and to also minimise potential for environmental impacts. Hazardous wastes will be recovered, wherever possible, and failing this, disposed of appropriately.

Onsite Crushing

It is currently not envisaged that the crushing of waste materials will occur onsite, however if the crushing of material is to be undertaken a mobile waste facility permit will first be obtained from DCC and the destination of the excepting waste facility will be supplied to the DCC waste unit.

7.4 Tracking and Documentation Procedures for Off-Site Waste

All waste will be documented prior to leaving the site. Waste will be weighed by the contractor, either by weighing mechanism on the truck or at the receiving facility. These waste records will be maintained on site by the nominated project RM (see Section 10.0).

All movement of waste and the use of waste contractors will be undertaken in accordance with the *Waste Management Acts* 1996 - 2011, *Waste Management (Collection Permit) Regulations* 2007 as amended and *Waste Management (Facility Permit & Registration) Regulations* 2007 and amended. This includes the requirement for all waste contractors to have a waste collection permit issued by the NWCPO. The nominated project RM (see Section 10.0) will maintain a copy of all waste collection permits on-site.

If the waste is being transported to another site, a copy of the Local Authority waste COR/permit or EPA Waste/IE Licence for that site will be provided to the nominated project RM (see Section 10.0). If the waste is being shipped abroad, a copy of the Transfrontier Shipping (TFS) notification document will be obtained from DCC (as the relevant authority on behalf of all local authorities in Ireland) and kept on-site along with details of the final destination (COR, permits, licences etc.). A receipt from the final destination of the material will be kept as part of the on-site waste management records.

All information will be entered in a waste management recording system to be maintained on site.

8.0 ESTIMATED COST OF WASTE MANAGEMENT

An outline of the costs associated with different aspects of waste management is outlined below. The total cost of C&D waste management will be measured and will take into account handling costs, storage costs, transportation costs, revenue from rebates and disposal costs.

8.1 Reuse

By reusing materials on site, there will be a reduction in the transport and recycle/recovery/disposal costs associated with the requirement for a waste contractor to take the material off-site.

Clean and inert soils, gravel, stones etc. which cannot be reused on site may be used as access roads or capping material for landfill sites etc. This material is often taken free of charge or a reduced fee for such purposes, reducing final waste disposal costs.

8.2 Recycling

Salvageable metals will earn a rebate which can be offset against the costs of collection and transportation of the skips.

Clean uncontaminated cardboard and certain hard plastics can also be recycled. Waste contractors will charge considerably less to take segregated wastes, such as recyclable waste, from a site than mixed waste.

Timber can be recycled as chipboard. Again, waste contractors will charge considerably less to take segregated wastes such as timber from a site than mixed waste.

8.3 Disposal

Landfill charges are currently at around €130 - €150 per tonne which includes a €75 per tonne landfill levy specified in the *Waste Management (Landfill Levy) Regulations* 2015. In addition to disposal costs, waste contractors will also charge a collection fee for skips.

Collection of segregated C&D waste usually costs less than municipal waste. Specific C&D waste contractors take the waste off-site to a licensed or permitted facility and, where possible, remove salvageable items from the waste stream before disposing of the remainder to landfill. Clean soil, rubble, etc. is also used as fill/capping material, wherever possible.

9.0 DEMOLITION PROCEDURES

The demolition stage will involve demolition and renovation of the existing development. The demolition areas are identified in the planning drawings submitted as part of this application. The following sequence of works will be followed during the demolition stage.

Check for Hazards

Prior to commencing works, buildings and structures to be demolished will be checked for any likely hazards including asbestos, ACMs, electrical power lines or cables, gas reticulation systems, telecommunications, unsafe structures and fire / explosion hazards, e.g. combustible dust, chemical hazards, oil, fuels and contamination.

Removal of Components

All hazardous materials will be removed first. All components from within the buildings that can be salvaged will be removed next. This will primarily be comprised of metal; however, may also include timbers, doors, windows, wiring and metal ducting, etc.

Removal of Roofing

Steel roof supports, beams, etc., will be dismantled and taken away for recycling / salvage.

Excavation of Services, Demolition of Walls and Concrete

Services will be removed from the ground and the breakdown of walls will be carried out once all salvageable or reusable materials have been taken from the buildings. Finally, any existing foundations and hard standing areas will be excavated.

10.0 TRAINING PROVISIONS

A member of the construction team will be appointed as the project RM to ensure commitment, operational efficiency and accountability during the C&D phases of the project.

10.1 Resource Manager Training and Responsibilities

The nominated RM will be given responsibility and authority to select a waste team if required, i.e. members of the site crew that will aid them in the organisation, operation and recording of the waste management system implemented on site. The RM will have overall responsibility to oversee, record and provide feedback to the client on everyday waste management at the site. Authority will be given to the RM to delegate responsibility to sub-contractors, where necessary, and to coordinate with suppliers, service providers and sub-contractors to prioritise waste prevention and material salvage.

The RM will be trained in how to set up and maintain a record keeping system, how to perform an audit and how to establish targets for waste management on site. The RM will also be trained in the best methods for segregation and storage of recyclable materials, have information on the materials that can be reused on site and be knowledgeable in how to implement this RWMP.

10.2 Site Crew Training

Training of site crew is the responsibility of the RM and, as such, a waste training program should be organised. A basic awareness course will be held for all site crew to outline the RWMP and to detail the segregation of waste materials at source. This may be incorporated with other site training needs such as general site induction, health and safety awareness and manual handling.

This basic course will describe the materials to be segregated, the storage methods and the location of the Waste Storage Areas (WSAs). A sub-section on hazardous wastes will be incorporated into the training program and the particular dangers of each hazardous waste will be explained.

11.0 TRACKING AND TRACING / RECORD KEEPING

Records should be kept for all waste material which leaves the site, either for reuse on another site, recycling or disposal. A recording system will be put in place to record the waste arising's on site.

A waste tracking log should be used to track each waste movement from the site. On exit from the site the waste collection vehicle driver should stop at the site office and sign out as a visitor and provide the security personnel or RM with a waste docket (or WTF for hazardous waste) for the waste load collected. At this time, the security personnel should complete and sign the Waste Tracking Register with the following information:

- Date
- Time
- Waste Contractor
- Company waste contractor appointed by e.g. Contractor or subcontractor name
- Collection Permit No.
- Vehicle Reg.
- Driver Name
- Docket No.
- Waste Type
- EWC/LoW
- Quantity

The waste vehicle will be checked by security personal or the RM to ensure it has the waste collection permit no. displayed and a copy of the waste collection permit in the vehicle before they are allowed to remove the waste from the site.

The waste transfer dockets will be transferred to the RM on a weekly basis and can be placed in the Waste Tracking Log file. This information will be forwarded onto the DCC Waste Regulation Unit when requested.

Each subcontractor that has engaged their own waste contractor will be required to maintain a similar waste tracking log with the waste dockets / WTF maintained on file and available for inspection on site by the main contractor as required. These subcontractor logs will be merged with the main waste log.

Waste receipts from the receiving waste facility will also be obtained by the site contractor(s) and retained. A copy of the Waste Collection Permits, CORs, Waste Facility Permits and Waste Licences will be maintained on site at all times and will be periodically reviewed by the RM. Subcontractors who have engaged their own waste contractors, should provide the main contractor with a copy of the waste collection permits and COR / permit / licence for the receiving waste facilities and maintain a copy on file, available for inspection on site as required.

12.0 OUTLINE WASTE AUDIT PROCEDURE

12.1 Responsibility for Waste Audit

The appointed RM will be responsible for conducting a waste audit at the site during the C&D phase of the development. Contact details for the nominated RM will be provided to the DCC Waste Regulation Unit after the main contractor is appointed and prior to any material being removed from site.

12.2 Review of Records and Identification of Corrective Actions

A review of all waste management costs and the records for the waste generated and transported off-site should be undertaken mid-way through the project.

If waste movements are not accounted for, the reasons for this should be established in order to see if and why the record keeping system has not been maintained. The waste records will be compared with the established recovery/reuse/recycling targets for the site. Each material type will be examined, in order to see where the largest percentage waste generation is occurring. The waste management methods for each material type will be reviewed in order to highlight how the targets can be achieved.

Upon completion of the C&D phase, a final report will be prepared, summarising the outcomes of waste management processes adopted and the total recycling/reuse/recovery figures for the development.

12.3 Pest Management

A pest control operator will be appointed as required to manage pest onsite during the construction phase of the project. Organic and food wastes generated by staff will not be stored in open skips, but in closed waste receptacles. Any waste receptacles will be carefully managed to prevent leaks, odours and pest problems.

13.0 C&D ENVIRONMENTAL MITIGATION MEASURES

During the Demolition and Construction phase the project Outline Construction Environmental Management Plan (CEMP) will be followed in regard to implementing and managing all environmental management requirements.

This CEMP explains the construction techniques and methodologies which will be implemented during demolition and construction of the proposed development.

The CEMP mitigation measures will be implemented to ensure that pollution and nuisances arising from site clearance and construction activities is prevented where possible and managed in accordance with best practice environmental protection.

The CEMP will be implemented and adhered to by the demolition and construction contractors and will be overseen and updated as required if site conditions change by the Project Manager, Environmental Manager, RM and Ecological Clerk of Works where relevant. All personnel working on the site will be trained in the implementation of the procedures.

14.0 CONSULTATION WITH RELEVANT BODIES

14.1 Local Authority

Once construction contractors have been appointed, have appointed waste contractors and prior to removal of any C&D waste materials offsite, details of the proposed destination of each waste stream will be provided to the DCC Waste Regulation Unit.

DCC will also be consulted, as required, throughout the demolition, excavation and construction phases in order to ensure that all available waste reduction, reuse and recycling opportunities are identified and utilised and that compliant waste management practices are carried out.

14.2 Recycling/Salvage Companies

The appointed waste contractor for the main waste streams managed by the demolition and construction contractors will be audited in order to ensure that relevant and up-to-date waste collection permits and facility registrations/permits/licences are held. In addition, information will be obtained regarding the feasibility of recycling each material, the costs of recycling/reclamation, the means by which the wastes will be collected and transported off-site, and the recycling/reclamation process each material will undergo off site.

15.0 REFERENCES

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- Eastern-Midlands Region Waste Management Plan 2015 2021 (2015).
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- 8. DCCAE, Whole of Government Circular Economy Strategy 2022-2023 'Living More, Using Less' (2021)
- 9. Circular Economy and Miscellaneous Provisions Act 2022.
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- 12. FÁS and the Construction Industry Federation (CIF), Construction and Demolition Waste Management a handbook for Contractors and Site Managers (2002).
- 13. Dublin City Council (DCC) Dublin City Council Development Plan 2022-2028 (2022)
- 14. Planning and Development Act 2000 (S.I. No. 30 of 2000) as amended
- 15. EPA, Waste Classification List of Waste & Determining if Waste is Hazardous or Non-Hazardous (2015)
- 16. Council Decision 2003/33/EC, establishing criteria and procedures for the acceptance of waste at landfills pursuant to Article 16 of and Annex II to Directive 1999/31/EC.
- 17. Environmental Protection Agency (EPA), National Waste Database Reports 1998 2020.
- 18. EPA and Galway-Mayo Institute of Technology (GMIT), EPA Research Report 146 A Review of Design and Construction Waste Management Practices in Selected Case Studies Lessons Learned (2015).

APPENDIX 14.2

OPERATIONAL WASTE MANAGEMENT PLAN



OPERATIONAL WASTE MANAGEMENT PLAN FOR A PROPOSED RESIDENTIAL DEVELOPMENT

AT

MILLTOWN PARK, SANDFORD ROAD, DUBLIN 6

Report Prepared For

Sandford Living Limited

Report Prepared By

Chonaill Bradley, Principal Environmental Consultant

Our Reference

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AWN Consulting Ltd.

1.0 INTRODUCTION

AWN Consulting Ltd. (AWN) has prepared this Operational Waste Management Plan (OWMP) on behalf of St Vincent's Hospital, for a proposed development consisting of the demolition of some of the existing buildings onsite, and the renovation and construction of multiple buildings to provide for a mixed-use development consisting of residential units, mental health hospital, childcare facility, co-working units, gym and residential amenities. The development will also include for car and bicycle parking, hard and soft landscaping and installation of all services at St. Vincent's Hospital, Richmond Road and Convent Avenue, Fairview, Dublin 3.

This OWMP has been prepared to ensure that the management of waste during the operational phase of the commercial development is undertaken in accordance with current legal and industry standards including, the *Waste Management Act 1996* as amended and associated Regulations ¹, *Environmental Protection Agency Act 1992* as amended ², *Litter Pollution Act 1997* as amended ³, the *'Eastern-Midlands Region (EMR) Waste Management Plan 2015 – 2021'* ⁴, *Dublin City Development Plan 2022 – 2028'* ⁵, and DCC *'Dublin City Council (Storage, Presentation and Segregation of Household and Commercial Waste) Bye-Laws' (2018)* ⁶. In particular, this OWMP aims to provide a robust strategy for storing, handling, collection and transport of the wastes generated at site.

This OWMP aims to ensure maximum recycling, reuse and recovery of waste with diversion from landfill, wherever possible. The OWMP also seeks to provide guidance on the appropriate collection and transport of waste to prevent issues associated with litter or more serious environmental pollution (e.g. contamination of soil or water resources). The plan estimates the type and quantity of waste to be generated from the proposed development during the operational phase and provides a strategy for managing the different waste streams.

At present, there are no specific national guidelines in Ireland for the preparation of OWMPs. Therefore, in preparing this document, consideration has been given to the requirements of national and regional waste policy, legislation and other guidelines.

2.0 OVERVIEW OF WASTE MANAGEMENT IN IRELAND

2.1 National Level

The Irish Government issued a policy statement in September 1998 titled as 'Changing Our Ways ⁷ which identified objectives for the prevention, minimisation, reuse, recycling, recovery and disposal of waste in Ireland. A heavy emphasis was placed on reducing reliance on landfill and finding alternative methods for managing waste. Amongst other things, Changing Our Ways stated a target of at least 35% recycling of municipal (i.e. household, commercial and non-process industrial) waste.

A further policy document 'Preventing and Recycling Waste – Delivering Change' was published in 2002 ⁸. This document proposed a number of programmes to increase recycling of waste and allow diversion from landfill. The need for waste minimisation at source was considered a priority.

This view was also supported by a review of sustainable development policy in Ireland and achievements to date, which was conducted in 2002, entitled 'Making Irelands Development Sustainable – Review, Assessment and Future Action' ⁹. This document also stressed the need to break the link between economic growth and waste generation, again through waste minimisation and reuse of discarded material.

In order to establish the progress of the Government policy document *Changing Our Ways*, a review document was published in April 2004 entitled *'Taking Stock and Moving Forward'* ¹⁰. Covering the period 1998 – 2003, the aim of this document was to assess progress to date with regard to waste management in Ireland, to consider developments since the policy framework and the local authority waste management plans were put in place, and to identify measures that could be undertaken to further support progress towards the objectives outlined in *Changing Our Ways*.

In particular, *Taking Stock and Moving Forward* noted a significant increase in the amount of waste being brought to local authority landfills. The report noted that one of the significant challenges in the coming years was the extension of the dry recyclable collection services.

In September 2020, the Irish Government published a new policy document outlining a new action plan for Ireland to cover the period of 2020-2025. This plan 'A Waste Action Plan for a Circular Economy' ¹¹ (WAPCE), was prepared in response to the 'European Green Deal' which sets a roadmap for a transition to a new economy, where climate and environmental challenges are turned into opportunities, replacing the previous national waste management plan "A Resource Opportunity" (2012).

The WAPCE sets the direction for waste planning and management in Ireland up to 2025. This reorientates policy from a focus on managing waste to a much greater focus on creating circular patterns of production and consumption. Other policy statements of a number of public bodies already acknowledge the circular economy as a national policy priority.

The policy document contains over 200 measures across various waste areas including circular economy, municipal waste, consumer protection and citizen engagement, plastics and packaging, construction and demolition, textiles, green public procurement and waste enforcement.

One of the first actions to be taken was the development of the Whole of Government Circular Economy Strategy 2022-2023 'Living More, Using Less' (2021) ¹² to set a course for Ireland to transition across all sectors and at all levels of Government toward circularity and was issued in December 2021. It is anticipated that the Strategy will be updated in full every 18 months to 2 years.

The Circular Economy and Miscellaneous Provisions Act 2022 ¹³ was signed into law in July 2022. The Act underpins Ireland's shift from a "take-make-waste" linear model to a more sustainable pattern of production and consumption, that retains the value of resources in our economy for as long as possible and that will to significantly reduce our greenhouse gas emissions. The Act defines Circular Economy for the first time in Irish law, incentivises the use of recycled and reusable alternatives to wasteful, singleuse disposable packaging, introduces a mandatory segregation and incentivised charging regime for commercial waste, streamlines the national processes for End-of-Waste and By-Products decisions, tackling the delays which can be encountered by industry, and supporting the availability of recycled secondary raw materials in the Irish market, and tackles illegal fly-tipping and littering.

Since 1998, the Environmental Protection Agency (EPA) has produced periodic 'National Waste (Database) Reports' ¹⁴ detailing, among other things, estimates for household and commercial (municipal) waste generation in Ireland and the level of recycling, recovery and disposal of these materials. The 2020 National Waste Statistics web resource, which is the most recent study published, along with the national waste statistics web resource (December 2022) reported the following key statistics for 2020:

• **Generated** – Ireland produced 3,210,220 t of municipal waste in 2020. This is a 4% increase since 2019. This means that the average person living in Ireland generated 645 kg of municipal waste in 2020.

- Managed Waste collected and treated by the waste industry. In 2020, a total
 of 3,180,620 t of municipal waste was managed and treated.
- Unmanaged –Waste that is not collected or brought to a waste facility and is, therefore, likely to cause pollution in the environment because it is burned, buried or dumped. The EPA estimates that 29,600 t was unmanaged in 2020.
- Recovered The amount of waste recycled, used as a fuel in incinerators, or used to cover landfilled waste. In 2020, around 84% of municipal waste was recovered – an increase from 83% in 2019.
- Recycled The waste broken down and used to make new items. Recycling also includes the breakdown of food and garden waste to make compost. The recycling rate in 2020 was 41%, which is up from 37% in 2019.
- Disposed 16% of municipal waste was landfilled in 2020. This is an increase from 15% in 2019.

2.2 Regional Level

The proposed development is located in the Local Authority area of Dublin City Council (DCC).

The EMR Waste Management Plan 2015 – 2021 is the regional waste management plan for the DCC area published in May 2015. A new National Waste Management Plan is expected to be published in 2023 and will supersede the three current regional waste management plans in Ireland.

The current regional plan sets out the following strategic targets for waste management in the region:

- A 1% reduction per annum in the quantity of household waste generated per capita over the period of the plan;
- Achieve a recycling rate of 50% of managed municipal waste by 2020; and
- Reduce to 0% the direct disposal of unprocessed residual municipal waste to landfill (from 2016 onwards) in favour of higher value pre-treatment processes and indigenous recovery practices.

Municipal landfill charges in Ireland are based on the weight of waste disposed. In the Leinster Region, charges are approximately €130 - €150 per tonne of waste which includes a €75 per tonne landfill levy specified in the *Waste Management (Landfill Levy) Regulations 2012.*

The *Dublin City Development Plan 2022 – 2028* sets out a number of policies and objectives for Dublin City in line with the objectives of the National climate action policy and emphasises the need to take action to address climate action across all sectors of society and the economy. In the waste sector, policy on climate action is focused on a shift towards a 'circular economy' encompassing three core principles: designing out waste and pollution; keeping products and material in use; and regenerating natural systems. Further policies and objectives can be found within the draft development plan.

Policies:

- CA7 F: minimising the generation of site and construction waste and maximising reuse or recycling.
- CA22: The Circular economy: To support the shift towards the circular economy approach as set out in 'a Waste Action Plan for a Circular Economy 2020 to 2025, Ireland's National Waste Policy, or as updated.

 CA23: To have regard to existing Best Practice Guidance on Waste Management Plans for Construction and Demolition Projects as well as any future updates to these guidelines in order to ensure the consistent application of planning requirements.

- SI27: Sustainable Waste Management: To support the principles of the circular economy, good waste management and the implementation of best practice in relation to waste management in order for Dublin City and the Region to become self-sufficient in terms of resource and waste management and to provide a waste management infrastructure that supports this objective.
- SI30: To require that the storage and collection of mixed dry recyclables, organic and residual waste materials within proposed apartment schemes have regard to the Sustainable Urban Housing: Design Standards for New Apartments Guidelines for Planning Authorities 2020 (or and any future updated versions of these guidelines produced during the lifetime of this plan).

Objectives:

- SIO14 Local Recycling Infrastructure: To provide for a citywide network of municipal civic amenity facilities/ multi-material public recycling and reuse facilities in accessible locations throughout the city in line with the objectives of the circular economy and 15 minute city.
- SIO16 Eastern-Midlands Region Waste Management Plan: To support the implementation of the Eastern-Midlands Regional Waste Management Plan 2015–2021 and any subsequent plans in order to facilitate the transition from a waste management economy towards a circular economy.

2.3 Legislative Requirements

The primary legislative instruments that govern waste management in Ireland and applicable to the project are:

- Waste Management Act 1996 as amended.
- Environmental Protection Agency Act 1992 as amended.
- Litter Pollution Act 1997 as amended.
- Planning and Development Act 2000 as amended. ¹⁵ and
- Circular Economy and Miscellaneous Provisions Act 2022.

These Acts and subordinate Regulations enable the transposition of relevant European Union Policy and Directives into Irish law.

One of the guiding principles of European waste legislation, which has in turn been incorporated into the *Waste Management Act 1996* as amended and subsequent Irish legislation, is the principle of "*Duty of Care*". This implies that the waste producer is responsible for waste from the time it is generated through until its legal disposal (including its method of disposal.) As it is not practical in most cases for the waste producer to physically transfer all waste from where it is produced to the final disposal area, waste contractors will be employed to physically transport waste to the final waste disposal site.

It is therefore imperative that the residents, tenants, staff and the proposed facilities management company (s) undertake on-site management of waste in accordance with all legal requirements and employ suitably permitted/licenced contractors to undertake off-site management of their waste in accordance with all legal requirements. This includes the requirement that a waste contactor handle, transport and reuse/recover/recycle/dispose of waste in a manner that ensures that no adverse environmental impacts occur as a result of any of these activities.

A collection permit to transport waste must be held by each waste contractor which is issued by the National Waste Collection Permit Office (NWCPO). Waste receiving facilities must also be appropriately permitted or licensed. Operators of such facilities cannot receive any waste, unless in possession of a Certificate of Registration (COR) or waste permit granted by the relevant Local Authority under the *Waste Management* (Facility Permit & Registration) Regulations 2007 as amended or a waste or IED (Industrial Emissions Directive) licence granted by the EPA. The COR/permit/licence held will specify the type and quantity of waste able to be received, stored, sorted, recycled, recovered and/or disposed of at the specified site.

2.3.1 Dublin City Council Waste Management Bye-Laws

The DCC "Dublin City Council (Storage, Presentation and Segregation of Household and Commercial Waste) Bye-Laws (2018)" were bought into force in May 2019. These bye-laws repeal the previous Bye-Laws for the Storage, Presentation and Collection of Household and Commercial Waste. The bye-laws set a number of enforceable requirements on waste holders with regard to storage, separation and presentation of waste within the DCC administrative area. Key requirements under these bye-laws of relevance to the operational phase of the Development include the following:

- Kerbside waste presented for collection shall not be presented for collection earlier than 5.00 pm on the day immediately preceding the designated waste collection day;
- All containers used for the presentation of kerbside waste and any uncollected waste shall be removed from any roadway, footway, footpath or any other public place no later than 10:00 am on the day following the designated waste collection day, unless an alternative arrangement has been approved in accordance with bye-law 2.3;
- Documentation, including receipts, is obtained and retained for a period of no less than one year to provide proof that any waste removed from the premises has been managed in a manner that conforms to these bye-laws, to the Waste Management Act and, where such legislation is applicable to that person, to the European Union (Household Food Waste and Bio-Waste) Regulations 2015; and
- Adequate access and egress onto and from the premises by waste collection vehicles is maintained.

The full text of the bye-laws is available from the DCC website.

2.4 Regional Waste Management Service Providers and Facilities

Various contractors offer waste collection services for the commercial sectors in the DCC region. Details of waste collection permits (granted, pending and withdrawn) for the region are available from the NWCPO.

As outlined in the regional waste management plan, there is a decreasing number of landfills available in the region. Only three municipal solid waste landfills remain operational and are all operated by the private sector. There are a number of other licensed and permitted facilities in operation in the region including waste transfer stations, hazardous waste facilities and integrated waste management facilities. There are two existing thermal treatment facilities, one in Duleek, Co. Meath and a second facility in Poolbeg in Dublin.

There is a DCC Recycling Centre at Gullistan Terrace, Rathmines located c.1.28km to the north east of the development, which can be utilised by the residents of the development for other household waste streams while a bottle bank can be found c. 1.38m to the north east at the Rathmines Road Tesco.A copy of all CORs and waste

permits issued by the Local Authorities are available from the NWCPO website and all waste/IE licenses issued are available from the EPA.

3.0 DESCRIPTION OF THE PROJECT

3.1 Location, Size and Scale of the Development

Sandford Living Limited intend to for permission for a large-scale residential development at this c. 4.26 hectare site at Milltown Park, Sandford Road, Dublin 6, D06 V9K7. Works are also proposed on Milltown Road and Sandford Road to facilitate access to the development including improvements to pedestrian facilities on an area of c. 0.16 hectares. The development's surface water drainage network shall discharge from the site via a proposed 300mm diameter pipe along Milltown Road through the junction of Milltown Road / Sandford Road prior to outfalling to the existing drainage network on Eglinton Road (approximately 200 metres from the Sandford Road / Eglinton Road junction), with these works incorporating an area of c. 0.32 hectares. The development site area, road works and drainage works areas will provide a total application site area of c. 4.74 hectares.

The development will principally consist of: the demolition of c. 4,883.9 sq m of existing structures on site including Milltown Park House (880 sq m); Milltown Park House Rear Extension (2,031 sq m); the Finlay Wing (622 sq m); the Archive (1,240 sq m); the link building between Tabor House and Milltown Park House rear extension to the front of the Chapel (74.5 sq m); and 36.4 sq m of the 'red brick link building' (single storey over basement) towards the south-western boundary; the refurbishment and reuse of Tabor House (1,575 sq m) and the Chapel (767.84 sq m), and the provision of a single storey glass entrance lobby to the front and side of the Chapel (51.9 sq m); and the provision of 636 No. apartment and duplex units (87 No. studios, 227 No. one bed units, 296 No. two bed units and 26 No. three bed units).

3.2 Typical Waste Categories

The typical non-hazardous and hazardous wastes that will be generated at the proposed development will include the following:

- Dry Mixed Recyclables (DMR) includes waste paper (including newspapers, magazines, brochures, catalogues, leaflets), cardboard and plastic packaging, metal cans, plastic bottles, aluminium cans, tins and Tetra Pak cartons;
- Organic waste food waste and green waste generated from internal plants/flowers;
- Glass: and
- Mixed Non-Recyclable (MNR)/General Waste.

In addition to the typical waste materials that will be generated at the development on a daily basis, there will be some additional waste types generated in small quantities which will need to be managed separately including:

- Green/garden waste may be generated from internal plants or external landscaping;
- Batteries (both hazardous and non-hazardous);
- Waste electrical and electronic equipment (WEEE) (both hazardous and nonhazardous);
- Printer cartridges/toners;
- Chemicals (paints, adhesives, resins, detergents, etc.);
- Light bulbs (Fluorescent Tubes, Long Life, LED and Lilament bulbs);
- Textiles (rags);

- Waste cooking oil (if any generated by the residential and commercial tenants);
- Furniture (and from time to time other bulky wastes);
- Abandoned bicycles; and
- Medical Waste.

3.3 European Waste Codes

In 1994, the *European Waste Catalogue* ¹⁶ and *Hazardous Waste List* ¹⁷ were published by the European Commission. In 2002, the EPA published a document titled the *European Waste Catalogue and Hazardous Waste List* ¹⁸, which was a condensed version of the original two documents and their subsequent amendments. This document has recently been replaced by the EPA '*Waste Classification – List of Waste & Determining if Waste is Hazardous or Non-Hazardous*' ¹⁹ which became valid from the 1st June 2015. This waste classification system applies across the EU and is the basis for all national and international waste reporting, such as those associated with waste collection permits, COR's, permits and licences and EPA National Waste Database.

Under the classification system, different types of wastes are fully defined by a code. The List of Waste (LoW) code (also referred to as European Waste Code or EWC) for typical waste materials expected to be generated during the operation of the proposed development are provided in Table 3.1 below.

Waste Material	LoW/EWC Code
Paper and Cardboard	20 01 01
Plastics	20 01 39
Metals	20 01 40
Mixed Non-Recyclable Waste	20 03 01
Glass	20 01 02
Biodegradable Kitchen Waste	20 01 08
Oils and Fats	20 01 25
Textiles	20 01 11
Batteries and Accumulators*	20 01 33* - 34
Printer Toner/Cartridges*	20 01 27* - 28
Green Waste	20 02 01
WEEE*	20 01 35*-36
Chemicals (solvents, pesticides, paints & adhesives, detergents, etc.) *	20 01 13*/19*/27*/28/29*30
Fluorescent tubes and other mercury containing waste*	20 01 21*
Bulky Wastes	20 03 07

^{*} Individual waste type may contain hazardous materials

Table 3.1 Typical Waste Types Generated and LoW Codes

4.0 ESTIMATED WASTE ARISINGS

A waste generation model (WGM) developed by AWN, has been used to predict waste types, weights and volumes arising from operations within the proposed development. The WGM incorporates building area and use and combines these with other data including Irish and US EPA waste generation rates.

The estimated quantum/volume of waste that will be generated from the residential units has been determined based on the predicted occupancy of the units. While the floor area usage (m²) has been used to estimate the waste arising from the creche and community/cultural units (Commercial). Waste generated in the residential amenities

and in common areas such as parks and outside spaces is accommodated in the residential waste figures.

The estimated waste generation for the development for the main waste types is presented in Tables 4.1, 4.2 & 4.3.

Wasta Type	Waste Volume (m³/week)					
Waste Type	Block A1	Block A2	Block B	Block C		
Organic Waste	1.47	1.87	1.28	2.27		
Dry Mixed Recyclables	10.39	12.82	9.10	16.08		
Glass	0.28	0.36	0.25	0.44		
Mixed Non- Recyclables	5.46	7.45	4.78	8.45		
Total	17.60	22.50	15.41	27.24		

Table 4.1 Estimated waste generation for the Residential Unit Blocks

Waste Type	Waste Volume (m³/week)					
	Block D	Block E Duplex Units	Block F	Creche		
Organic Waste	0.56	0.43	1.31	0.04		
Dry Mixed Recyclables	3.95	3.05	9.27	1.40		
Glass	0.11	0.08	0.25	0.01		
Mixed Non- Recyclables	2.08	1.60	4.88	0.76		
Total	6.70	5.16	15.71	2.21		

Table 4.2 Estimated waste generation for the Residential Unit Blocks, Duplex Units & Creche

Waste Type	Waste Volume (m³/week)				
	Community / Cultural (Block A1)	Community / Cultural (Tarbor / Chapel)			
Organic Waste	0.04	0.30			
Dry Mixed Recyclables	0.24	1.87			
Glass	0.04	0.29			
Mixed Non- Recyclables	0.29	2.28			
Total	0.60	4.74			

Table 4.3 Estimated waste generation for the Community/Cultural Units

The predicted total waste generated from the residential units based on the *BS5906:2005 Waste Management in Buildings – Code of Practice* ¹⁸ is c. 88.45m³ per week for the residential units. Whereas the AWN waste generation modelestimates c. 110.85m³ per week from the residential units. AWN's modelling methodology is based on data from recent published data and data from numerous other similar developments in Ireland and based on AWN's experience it is a more representative estimate of the likely waste arisings from the development.

5.0 WASTE STORAGE AND COLLECTION

This section provides information on how waste generated within the development will be stored and how the waste will be collected from the development. This has been prepared with due consideration of the proposed site layout as well as best practice standards, local and national waste management requirements including those of DCC. In particular, consideration has been given to the following documents:

- BS 5906:2005 Waste Management in Buildings Code of Practice;
- EMR Waste Management Plan 2015 2021;
- Dublin City Council Development Plan 2022 2028;
- DCC Dublin City Council (Storage, Presentation and Segregation of Household and Commercial Waste) Bye-Laws (2018);
- The Department of Housing, Local Government and Heritage. (DoHLGH), Sustainable Urban Housing: Design Standards for New Apartments, Guidelines for Planning Authorities (2022) 21.
- DoHLGH, Design Manual for Urban Roads and Streets (2022) ²²

Waste Storage Areas

Dedicated communal Waste Storage Areas (WSA) have been allocated within the development design at basement and ground floor levels for the residential units and can be viewed in the drawings submitted with the application. Communal amenity space waste will be accommodated in any of the residential WSAs and waste estimates are included as part of the overall residential waste figures provided in Tables 4.1, 4.2 & 4.3.

The creche unit and community/cultural units have their own commercial waste store located in the external location adjacent to block F. The community/cultural units in Block A1 will store locked bins in the closest residential WSA, on basement level.

Locations of all Waste Storage Areas (WSAs) can be viewed on the drawings submitted with the planning application under and in Appendix A of this report.

The waste receptacles from the residential WSAs and commercial WSA will be collected by facilities management or the waste contractor (agreement dependant), at the time of collection and brought through the development, to the staging areas, within the development redline boundary.

Waste Storage Requirements

Using the estimated waste generation volumes in Table 4.1, 4.2 & 4.3 the waste receptacle requirements for MNR, DMR, organic waste and glass have been established for the WSA. These are presented in Table 5.1.

	Bins Required					
Area/Use	MNR ¹	DMR ²	Glass	Organic		
Block A1	5 no. 1100L	10 no. 1100L	2 no. 240L	6 no. 240L		
Block A2	7 no. 1100L	12 no. 1100L	2 no. 240L	8 no. 240L		
Block B	5 no. 1100L	8 no. 1100L	1 no. 240L	6 no. 240L		
Block C	8 no. 1100L	15 no. 1100L	2 no. 240L	10 no. 240l		
Block D	2 no. 1100L	4 no. 1100L	1 no. 240L	3 no. 240L		
Block E	2 no. 1100L	4 no. 1100L	1 no. 240L	3 no. 240L		
Block F	5 no. 1100L	9 no. 1100L	2 no. 240L	6 no. 240L		
Commercial (Creche, Community/ Cultural)	3 no. 1100L	4 no. 1100L	2 no. 240L	2 no. 240L		

Note:

Table 5.1 Waste storage requirements for the proposed development

The waste receptacle requirements have been established from distribution of the total weekly waste generation estimate into the holding capacity of each receptacle type.

Waste storage receptacles as per Table 5.1 above (or similar appropriate approved containers) will be provided by the Hospital, facilities management company, or the tenants in the WSAs depending on the agreement.

As outlined in the current Dublin City Development Plan, it is preferable to use 1,100 litre wheelie bins for waste storage, where practical. However, in the case of organic and glass waste, it is considered more suitable to use smaller waste receptacles due to the weight of bins when filled with organic and glass waste. The use of 240 & 120 litre bins as recommended in Table 5.1 will reduce the manual handling impacts on the facilities management personnel and waste contractor employees.

The types of bins used will vary in size, design and colour dependent on the appointed waste contractor. However, examples of typical receptacles to be provided in the WSA are shown in Figure 5.1. All waste receptacles used will comply with the SIST EN 840-1:2020 and SIST EN 840-2:2020 as the standards for performance requirements of mobile waste containers, where appropriate.



Figure 5.1 Typical waste receptacles of varying size (240L and 1100L)

^{1 =} Mixed Non-Recyclables

² = Dry Mixed Recyclables

Facilities management may use a commercially available mini compactor for the DMR and MNR waste streams in the residential WSA (s), referred to as an Epac compactor in this OWMP.

This option will significantly reduce the volume of waste and as such the number of bins stored on site and the number of bins that will need to be transported for collection. It compresses/compacts the waste into 2m³ and 3m³ bags.

Alternative options can be considered in future by the facilities management company, as technologies are developed. Solely for the purpose of ensuring the residential WSA is sufficiently sized to accommodate bins which take up more space.

The Epac compactor referred to is a compactor that compresses/compacts the waste into 2m³ and 3m³ skip bags (also called Flexible Intermediate Bulk Containers or FIBCs). A photo of the Epac mini compactor is provided as Figure 5.2.

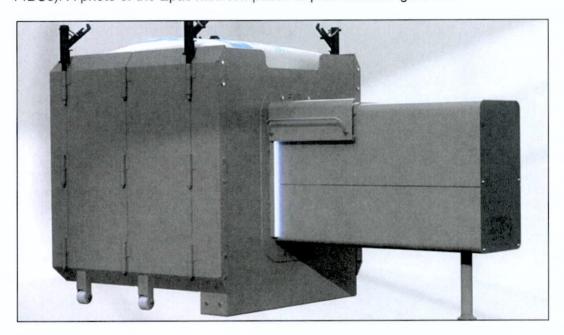


Figure 5.2 Photo of an Epac Mini Compactor (Source: bnmrecyling Website)

Receptacles for organic, DMR, glass and MNR waste will be provided in the WSA's prior to first occupation of the development i.e. prior to the first residential or commercial unit being occupied.

This Plan or a revised operational manual will be provided to each tenant from first occupation of the development i.e. once the first unit is occupied. This Plan will be supplemented, as required, by the property management company with any new information on waste segregation, storage, reuse and recycling initiatives that are subsequently introduced.

5.1 Waste Storage - Residential Units

Residents will be required to segregate waste into the following main waste streams:

- DMR:
- MNR:
- Organic waste; and
- Glass.

Residents will be required to take their segregated waste materials to their designated WSA and deposit their segregated waste into the appropriate bins. The location of the WSAs are illustrated in the drawings submitted with the planning application under separate cover and in Appendix A of this report.

Provision will be made in all residential units to accommodate 3 no. bin types to facilitate waste segregation at source. An example of a potential 3 bin storage system is provided in figure 5.3 below.



Figure 5.3 Example three bin storage system to be provided within the unit design

Each bin / container in the WSAs will be clearly labelled and colour coded to avoid cross contamination of the different waste streams. Signage will be posted above or on the bins to show exactly which waste types can be placed in each bin.

Waste bins for general and recycling will be placed around the development in common areas and will be collected and serviced by facilities management. Waste from these bins will be stored in the residential WSA.

Access to the residential WSAs will be restricted to authorised residents, facilities management and waste contractors by means of a key or electronic fob access.

Other waste materials such as textiles, cooking oil, bulky objects, batteries, printer toner / cartridges, light bulbs and WEEE may be generated infrequently by the residents. Residents will be required to identify suitable temporary storage areas for these waste items within their own units and dispose of them appropriately. Further details on additional waste types can be found in Section 5.4.

5.2 Waste Storage – Crèche & Community/Cultural Units (Commercial)

The tenants will be required to segregate waste within their unit, into the following main waste types:

- DMR:
- MNR;
- Organic waste; and
- Glass.

The tenants will take their waste to their allocated commercial waste store, at ground level in an external location, adjacent to block F.

AWN Consulting Ltd.

Suppliers for the tenants should be requested by the tenants to make deliveries in reusable containers, minimize packaging or to remove any packaging after delivery where possible, to reduce waste generated by the development.

All bins/containers in the tenant's areas as well as in the WSA will be clearly labelled and colour coded to avoid cross contamination of the different waste streams. Signage will be posted above or on the bins to show exactly which wastes can be put in each.

Other waste materials such as batteries, printer cartridges, bulky waste and WEEE will be generated less frequently. Space will have to be allowed for in the tenants unit for storage of these waste types as required. Other waste types will be collected on an as required basis. Collection may be arranged by facilities management or the tenant depending on the agreement. Further details on additional waste types can be found in Section 5.4.

5.5 Waste Collection

There are numerous private contractors that provide waste collection in the Dublin City Council area.

All waste contractors servicing the proposed development must hold a valid waste collection permit for the specific waste types collected. All waste collected must be transported to registered/permitted/licensed facilities only.

Bins from the development will be brought to a collection point in the forecourt, or directly from the ground level WSAs by the waste contractor or facilities management, immediately prior to collection. The basement level carpark is insufficient in height for a waste truck to access, all waste will be collected at grade. Temporary storage at the bottom of the basement ramp has been provided to move bins prior to collection.

The waste receptacles from the WSAs will be collected by facilities management, immediately prior to collection and brought to where the bins will be staged temporarily awaiting collection. The staging areas are such that they will not obstruct traffic or pedestrians (allowing a footway path of at least 1.8m, the space needed for two wheelchairs to pass each other) as is recommended in the *Design Manual for Urban Roads and Streets* (2022).

All residents and tenants should be made aware of the waste collection arrangements and all waste receptacles must be clearly identified and maintained in good condition as required by waste legislation and the requirements of the DCC Waste Bye-Laws.

5.6 Additional Waste Materials

In addition to the typical waste materials that are generated on a daily basis, there will be some additional waste types generated from time to time that will need to be managed separately. A non-exhaustive list is presented below.

Green Waste

Green waste may be generated from gardens, external landscaping and internal plants / flowers. Green waste generated from landscaping of external areas will be removed by external landscape contractors. Green waste generated from gardens internal plants / flowers can be placed in the organic waste bins.

Batteries

A take-back service for waste batteries and accumulators (e.g. rechargeable batteries) is in place in order to comply with the S.I. No. 283/2014 - European Union (Batteries and Accumulators) Regulations 2014, as amended. In accordance with these regulations, consumers are able to bring their waste batteries to their local civic

amenity centre or can return them free of charge to retailers which supply the equivalent type of battery, regardless of whether or not the batteries were purchased at the retail outlet and regardless of whether or not the person depositing the waste battery purchases any product or products from the retail outlet.

The commercial tenants cannot use the civic amenity centre. They must segregate their waste batteries and either avail of the take-back service provided by retailers or arrange for recycling / recovery of their waste batteries by a suitably permited / licenced contractor. Facilties management may arrange collection, depending on the agreement.

Waste Electrical and Electronic Equipment (WEEE)

The WEEE Directive (Directive 2002/96/EC) and associated Waste Management (WEEE) Regulations have been enacted to ensure a high level of recycling of electronic and electrical equipment. In accordance with the regulations, consumers can bring their waste electrical and electronic equipment to their local recycling centre. In addition, consumers can bring back WEEE within 15 days to retailers when they purchase new equipment on a like for like basis. Retailers are also obliged to collect WEEE within 15 days of delivery of a new item, provided the item is disconnected from all mains, does not pose a health and safety risk and is readily available for collection.

As noted above, the commercial tenants cannot use the civic amenity centre. They must segregate their WEEE and either avail of the take-back / collection service provided by retailers or arrange for recycling / recovery of their WEEE by a suitably permited / licenced contractor. Facilties management may arrange collection, depending on the agreement.

Printer Cartridge / Toners

It is recommended that a printer cartridge / toner bin is provided in the commercial unit, where appropriate. The commercial tenant will be required to store this waste within their unit and arrange for return to retailers or collection by an authorised waste contractor, as required.

Waste printer cartridge / toners generated by residents can usually be returned to the supplier free of charge or can be brought to a civic amenity centre.

Chemicals

Chemicals (such as solvents, paints, adhesives, resins, detergents, etc) are largely generated from building maintenance works. Such works are usually completed by external contractors who are responsible for the off-site removal and appropriate recovery / recycling / disposal of any waste materials generated.

Any waste cleaning products or waste packaging from cleaning products generated in the commercial units that is classed as hazardous (if they arise) will be appropriately stored within the tenants' own space. Facilties management may arrange collection, depending on the agreement.

Any waste cleaning products or waste packaging from cleaning products that are classed as hazardous (if they arise) generated by the residents should be brought to a civic amenity centre.

Light Bulbs

Waste light bulbs (fluorescent, incandescent and LED) may be generated by lighting at the commercial units. It is anticipated that commercial tenants will be responsible for the off-site removal and appropriate recovery / disposal of these wastes. Facilties management may arrange collection, depending on the agreement.

Light bulbs generated by residents should be taken to the nearest civic amenity centre for appropriate storage and recovery / disposal.

Textiles

Where possible, waste textiles should be recycled or donated to a charity organisation for reuse. Commercial and residential tenants will be responsible for disposing of waste textiles appropriately.

Waste Cooking Oil

If the commerial tenants use cooking oil, waste cooking oil will need to be stored within the unit on a bunded area or spill pallet and regular collections by a dedicated waste contractor will need to be organised as required. Under sink grease traps will be installed in any cooking space.

If the residents generate waste cooking oil, this can be brought to a civic amenity centre.

Furniture & Other Bulky Waste Items

Furniture and other bulky waste items (such as carpet, etc.) may occasionally be generated by the commercial tenant. The collection of bulky waste will be arranged, as required by the tenant. If residents wish to dispose of furniture, this can be brought a civic amenity centre.

Abandoned Bicycles

Bicycle parking areas are planned for the development. As happens in other developments, residents sometimes abandon faulty or unused bicycles, and it can be difficult to determine their ownership. Abandoned bicycles should be donated to charity if they arise or Facilties management willmay arrange collection by a licensed waste contractor.

Covid-19 Waste

Any waste generated by residential and commercial tenants that have tested positive for Covid-19 should be manged in accordance with the current Covid-19 HSE Guidelines at the time that that waste arises. At the time this report was prepared, the HSE Guidelines require the following procedure for any waste from a person that tests positive for Covid-19:

- Put all waste (gloves, tissues, wipes, masks) from that person in a bin bag and tie when almost full:
- Put this bin bag into a second bin bag and tie a knot;
- Store this bag safely for 3 days, then put the bag into the non-recyclable waste / general waste wheelie bin for collection / emptying.

Please note that this guidance is likely to be updated by the time the proposed Development is open and occupied and the relevant guidance at the time will need to be reviewed.

5.7 Waste Storage Area Design

The WSAs should be designed and fitted-out to meet the requirements of relevant design standards, including:

- Be fitted with a non-slip floor surface;
- Provide ventilation to reduce the potential for generation of odours with a recommended 6-10 air changes per hour for a mechanical system for internal WSAs;
- Provide suitable lighting a minimum Lux rating of 400 is recommended;

- Be easily accessible for people with limited mobility;
- Be restricted to access by nominated personnel only;
- Be supplied with hot or cold water for disinfection and washing of bins;
- Be fitted with suitable power supply for power washers;
- Have a sloped floor to a central foul drain for bins washing run-off;
- Have appropriate signage placed above and on bins indicating correct use;
- Have access for potential control of vermin, if required; and
- Be fitted with CCTV for monitoring.

The facilities company and commercial tenants will be required to maintain the waste storage areas in good condition as required by the DCC Waste Bye-Laws.

Access to the WSA will be restricted to authorised staff, be sufficient to allow a 1100 litre bin to pass easily into and out of the room for transfer via the walkways to the waste staging/collection zone.

The facilities management company will be required to maintain the waste storage areas in good condition as required by the DCC Waste Bye-Laws.

5.8 Facility Management Responsibilities

It shall be the responsibility of the Facilities Management Company to ensure that all domestic waste generated by apartment residents is managed to ensure correct storage prior to collection by an appropriately permitted waste management company.

Facilities Management should provide the following items to residents

- Provision of a Waste Management Plan document, prepared by the Facilities Management Company to all residents and tenants, which shall clearly state the methods of source waste segregation, storage, reuse and recycling initiatives that shall apply to the management of the development;
- Provision and maintenance of appropriate graphical signage to inform residents of their obligation to reduce waste, segregate waste and in the correct bin;
- Preparation of an annual waste management report for all residents and tenants:
- Designation of access routes to common waste storage areas to ensure safe access from the residential units by mobility impaired persons.
- Provision of an appropriately qualified and experienced staff member, who will be responsible for all aspects of waste management at the development;
- Frequent inspection of shared waste storage areas and signing of a check list, which shall be displayed within the area; and
- Maintenance of a register, detailing the quantities and breakdown of wastes collected from the apartment blocks and provision of supporting documentation by the waste collector to allow tracking of waste recycling rates.

6.0 CONCLUSIONS

In summary, this OWMP presents a waste strategy that addresses all legal requirements, waste policies and best practice guidelines and demonstrates that the required storage areas have been incorporated into the design of the development.

Implementation of this OWMP will ensure a high level of recycling, reuse and recovery at the development. All recyclable materials will be segregated at source to reduce waste contractor costs and ensure maximum diversion of materials from landfill, thus achieving the targets set out in the *EMR Waste Management Plan 2015 – 2021*.

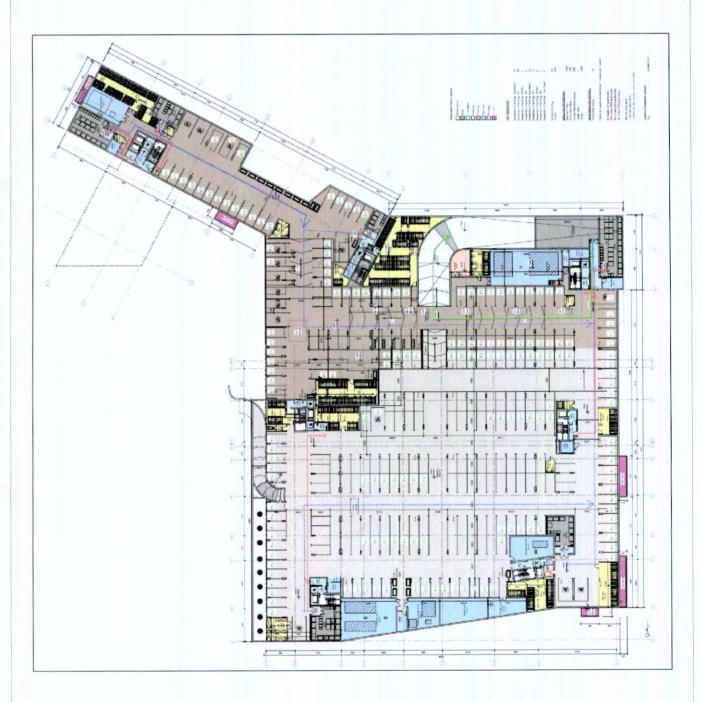
Adherence to this plan will also ensure that waste management at the development is carried out in accordance with the requirements of the *DCC Waste Bye-Laws*.

The waste strategy presented in this document will provide sufficient storage capacity for the estimated quantity of segregated waste. The designated area for waste storage will provide sufficient room for the required receptacles in accordance with the details of this strategy.

7.0 REFERENCES

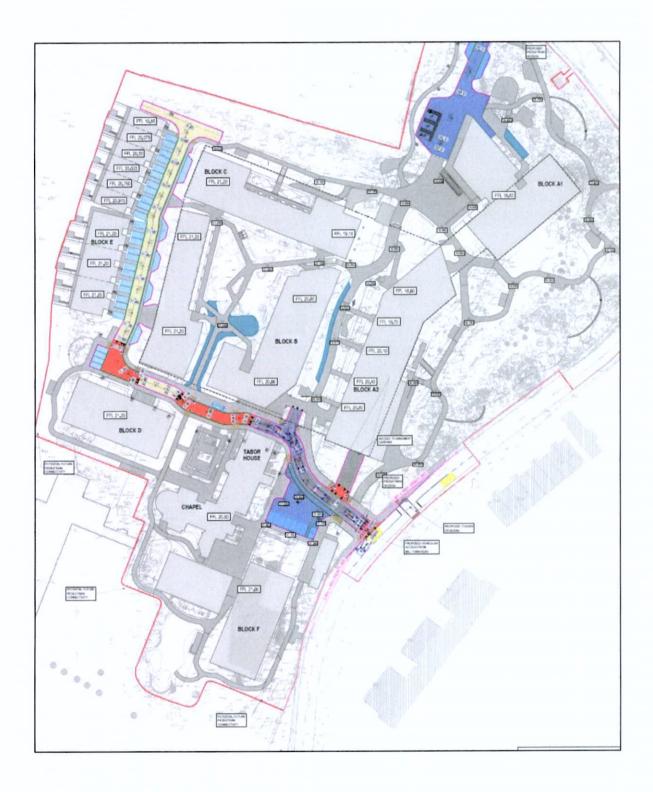
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Road Sweep Analysis For Waste Vehicle

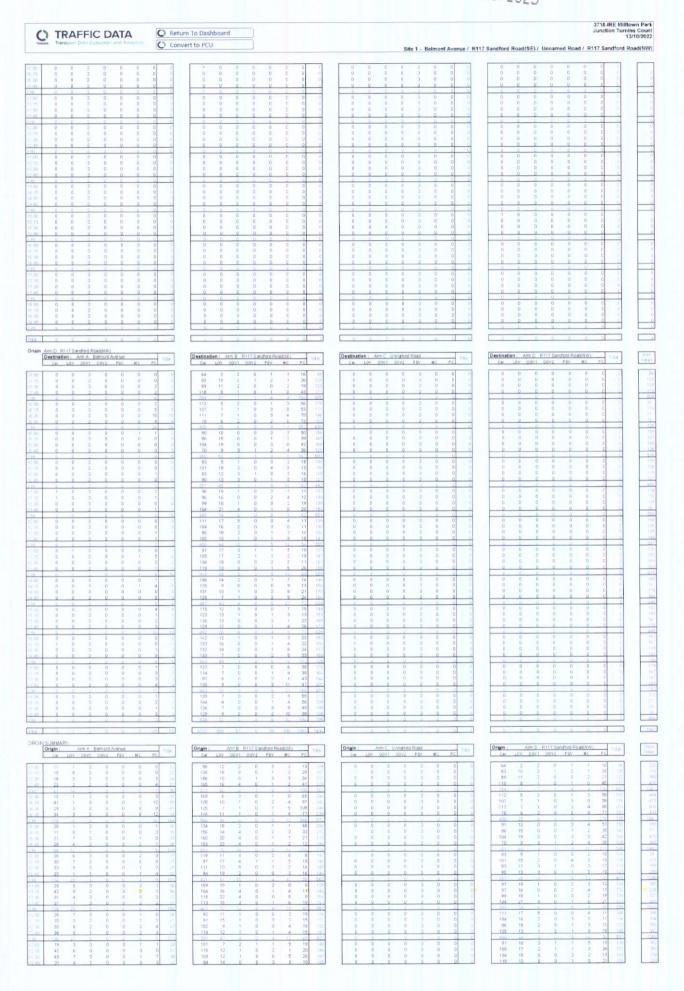


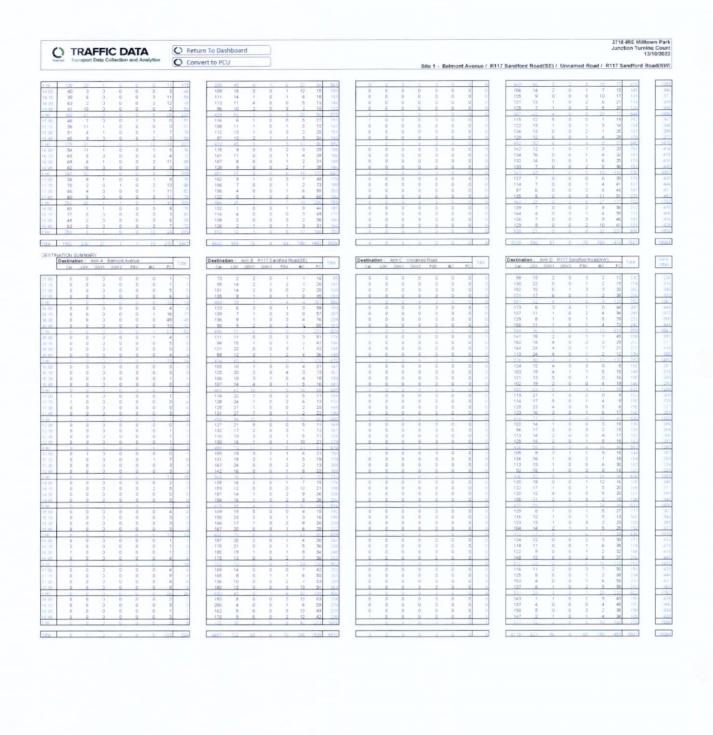
APPENDIX 15.1

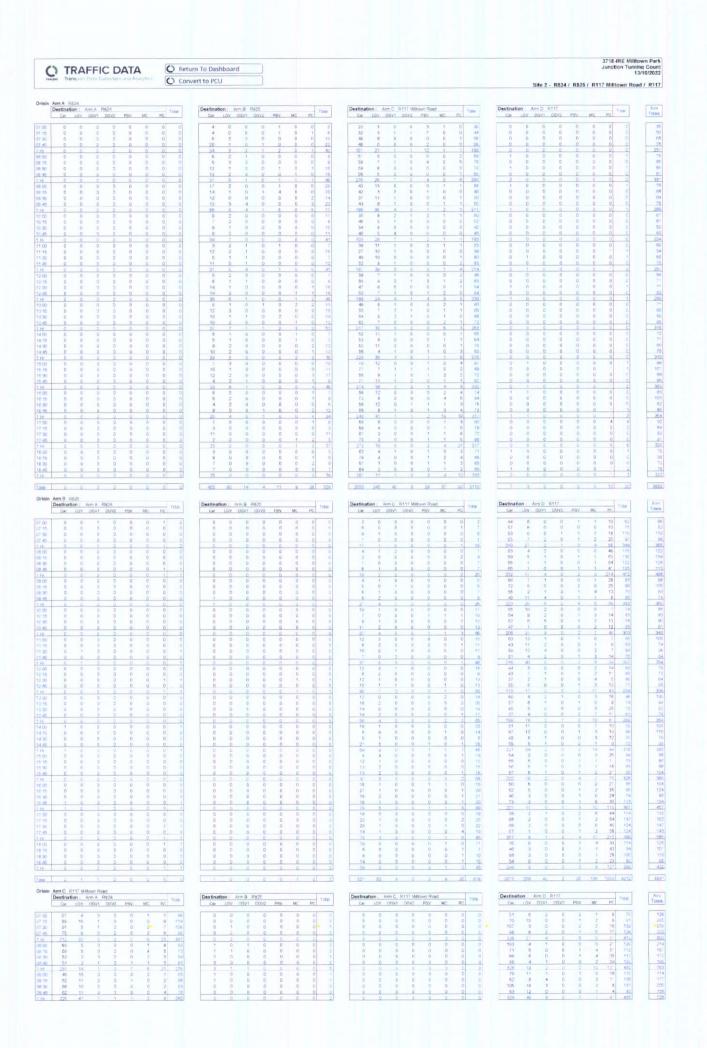
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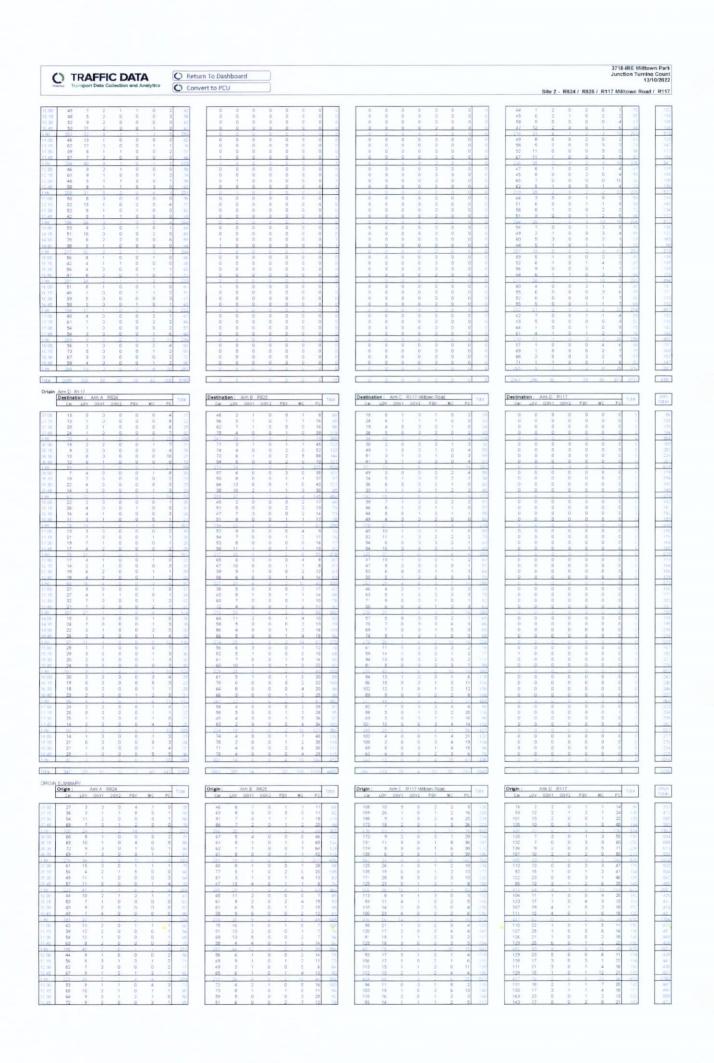
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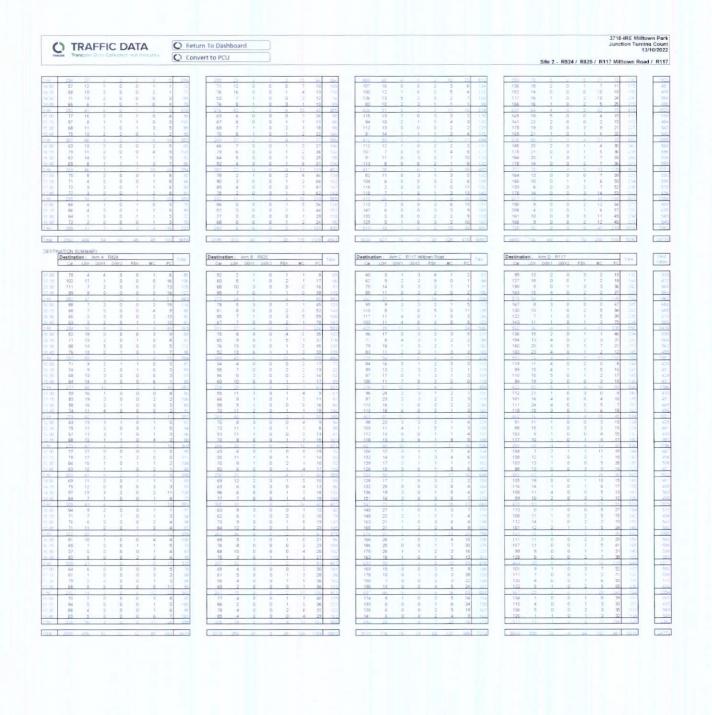
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100	85 99	10 0 7 0	0 0	2	5 104 6 114	
7:30 7:45	120 108	2 0 7 1	0 1	1 2	11 135 10 129	1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
Hr	412	26 1	0 3	8	32 482	1 0 0 0 0 0 0 1 0 0 0 0 0 0 0
5 00 5:15	118 134	2 0 6 0	0 0	3	10 136 10 153	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
30	135	4 0	0 2	2	9 162 9 145	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
Hr Hr	126 513	18 1	0 2	14	38 586	1 0 0 0 0 0 0 1
tal	5504	621 75	12 39	128 4	38 6817	13 3 0 0 0 1 0 17 2 1 0 0 0 0 3
			-			
KIGI	Origin :	Arm A R1	17 Milltown Ro		Total	Origin: Arm B Mourt Sandford Total Origin: Arm C R117 Millown Road Total
	Car	LGV OGV1 0	GV2: PSV	MC	PC	Car LGV 0GV1 0GV2 PSV MC PC Car LGV 0GV1 0GV2 PSV MC PC 10181
00	37	3 1	0 4	1	2 48	2 0 0 0 0 0 1 3 116 17 5 0 1 2 5 146 1 0 0 0 0 0 1 2 150 23 1 0 1 2 15 192
15	64 75	10 2 14 0	2 7	1	0 85 1 92	1 0 0 0 0 0 1 2 150 23 1 0 1 2 15 192 4 0 0 0 0 0 2 6 199 13 1 0 2 5 21 241
45	83	11 0 38 3	0 2	0	3 99	2 0 0 0 0 0 1 3 179 19 2 0 1 2 26 229
.00	259 90	10 2	0 0	1	6 324 4 107	3 0 0 0 0 0 2 6 163 9 2 0 1 2 24 201
15	112 129	8 0	0 4	0	11 135 6 146	2 0 0 0 0 0 1 1 1 2 107 5 1 0 1 5 23 142
45	106	10 4	0 0	0	8 128	2 0 0 0 0 0 0 2 124 7 1 0 1 1 40 174
-lr :00	437 95	32 11 18 0	0 0	3	29 516 5 121	7 0 0 0 0 1 4 12 532 32 4 0 3 16 108 695 1 0 0 0 0 1 2 115 21 1 0 1 3 19 160
15	72	8 4	0 1	2	3 90	0 1 0 0 0 0 0 1 137 18 6 0 1 2 16 190
9:30 9:45	81 81	18 1 12 2	0 2	1 3	2 105 4 103	0 0 0 0 0 0 0 0 0 172 28 8 0 0 3 9 220 1 0 0 0 0 1 2 113 21 0 1 0 1 7 143
Hr	329	56 7	0 4	9	14 419	2 1 0 0 0 0 2 5 537 88 15 1 2 9 51 703
0.00	82 101	16 3 13 2	1 2	3 2	3 110 1 121	3 0 0 0 0 0 0 3 110 9 4 1 3 0 3 130 1 0 0 0 0 0 1 92 9 4 1 0 2 8 116
0:30	87	17 0	1 0	1	5 111	1 0 0 0 0 0 0 1 105 12 2 0 0 0 5 124
0:45 Hr	99 369	11 7 57 12	2 4	6	9 459	5 0 0 0 0 0 0 5 405 57 14 2 3 4 23 508
1:00	96 88	23 2 24 2	0 1 0 2	2 2	1 125 3 121	0 0 0 0 0 0 0 0 0 0 102 20 1 0 2 1 4 130 0 0 0 0 0 0 0 116 18 3 0 0 3 5 145
1:30	109	15 1	0 0	2	4 131	3 0 0 0 0 0 0 3 94 16 0 1 0 3 2 116



C Return To Dasaboard on and Analytics C Convert to PCU

Site 3 - R117 Milltown Road / Mount Sandford / R117 Milltown Road

12:00	98	23	4 0	0	1	4	130	2	0	0	0	0 0	1	3		98	15	4	1	0	0	4	122	255
12:15	101	11	4 1	5	1	4	127	2	0	0		0 1	0	3		106	17	0	0	2	1	5	131	261
12:30	114	13	0 0	1	1	4	133	1	0	0		0 0	0	1		106	12	1	1	0	0	11	131	265 279
12:45	117	13	3 0	1	11	18	148 538	5	0	0	0	0 0	0	7		415	58	7	3	2	5	25	515	1060
1 Hz 13:00	430 106	13	3 1	1	7	5	135	1	0	0		0 0	0	1		102	13	0	0	2	8	3	128	264
13:15	132	14	3 1	0	4	5	159	0	0	0	0	0 0	0	0		97	20	1	0	2	6	12	138	297
13:30	137	16	2 1	1	1	1	159	3	0	0	0	0 0	0	3		99	14	2	0	1	2	3	121	283
13:45	127	14	0 0	1	5	4	15.1	0	1	0	0	0 0	0	- 1	-	97	16	4	-!-	-	18	24	511	1120
1.Hr	501	57	8 3	3	17	15	604	1	1	0	0	0 0	0	2		395 103	15	0	0	2	3	6	129	282
14:00	128 134	18 19	1 0	0	2 8	4	151	2	0	0	0	0 0	0	2		117	13	1	0	1	5	4	141	308
14:30	136	19	2 0	1	5	9	172	0	0	0	0	0 0	0	0		118	13	4	2	0	2	7	146	318
14.45	151	14	2 0	3	0	7	177	0	0	0	0	0 0	0	0		86	9	2	0	1_	1	1	100	277
1 Hr	549	70	5 0	4	15	22	665	3	.1	0	0	0 0	0	4		424	50	7	2	4	_11	18	516	1185
15:00	143	27	1 0	1	3	7	182	1	0	0	0	0 0	1	2		109	13	2 2	0	0	3	1	128	312 306
15:15	151	22	2 1	1	6	4	182	0 2	0	0	0	0 0	0	0		102	13	0	0	0	2	3	121	323
15:30 15:45	162 168	21	1 0	3	3	8	204	2	0	0	0	0 0	1	3		89	16	2	1	1	3	4	116	323
1 Hr	624	92	5 3	5	13	26	768	5	0	0	0	0 0	2	7		403	53	6	2	- 2	12	11.	489	1264
16:00	170	26	1 0	1	5	8	211	0	0	0	0	0 0	0	0		108	8	0	0	2	2	1	121	332
16:15	185	25	0 0	1	7	20	238	0	0	0	0	0 0	0	0		105	7	0	0	1	5	8	126	364 342
16:30	176	26	1 1	2	3	14	223	2 0	0	0	0	0 0	0	2		95 100	11	0	0	1	2	7	121	329
16:45 1 Hr	168 699	19 96	1 0	- 1	5 20	14	208 880	2	0	0	0	0 0	0	2		408	37	0	0	5	10	25	485	1367
17:00	169	15	0 0	0	5	12	201	1	0	0	0	0 0	0	1		85	10	0	0	1	3	.5	104	306
17:15	173	9	0 1	0	3	28	214	0	0	0	0	0 0	0	0		99	7	0	0	0	2	6	114	328
17:30	149	8	0 0	2	3	24	186	0	0	0	0	0 0	1	1		121	2	0	0	1	1	11	136	323
17:45	191	14	0 0	4	5	25	239	1	0	0	0	0 0	0	- 1		108	26	1	0	1	P P	10	129 483	1326
1 Hr	177	46 8	1 0	6 2	16.	22	840 215	0	0	0	0	0 0	0	0		118	2	0	0	0	6	10	136	351
18:00 18:15	177	6	0 0	1	6	25	233	2	0	0	0	0 0	0	2		134	6	0	0	0	3	10	153	388
18:30	136	6	0 0	2	5	22	171	0	0	0	0	0 0	0	0		135	4	0	0	2	2	9	152	323
18:45	141	6	0 0	2	4	11	164	4	0	0	0	0 0	1			127	6	1	0	0	3	9	146	315
1 Hr	649	26	1 0	7	20	80	783	6	0	0	0	0 0	1			514	18	1	0	- 2	14	38	587	1377
Trace :	2510	740	70 47	68	137	375	7321	54	2	0	0	0 2	16	75		5518	625	75	12	39	129	438	6837	14233
Total	5942	710	76 13	68	137	3/5	7.321	.54		U	U	0 2	10.	10		00.10	020	10	12		157	400	2007	
DESTIN	NATION S	UMMARY													-							-		T man
	Destinati	on: Am	1 A R117 MH	town Roa			Total	Destinat		rm B Mou				Total	De				17 Millov			-	Total	Dest Totals
	Car	LGV 0	GV1 0GV2	PSV	MC	PC		Cor	LGV	06V1 0	GV2 P	SV. MC	PC			Car	LGV	0071 (DG V2	PSV	MC	PU		Totals
20.00	449	47	5 0		2	6	148	1	0	0	0	0 0	0	- 4		37	3	1	0	4	1	2	48	197
07:00	117 152	17 23	5 0	1	2	16	195	0	0	0	0	0 0	0	0		63	10	2	2	7	0	0	84	279
07:30	200	13	1 0	2	5	23	244	0	0	0	0	0 0	0	0		78	14	0	0	1	1	1	95	339
07:45	181	19	2 0	1	2	27	232	0	0	0	0	0 0	0	0	-	83	11	0	0	2	0	3	326	331 1146
1 Hr	650	72	9 0	5	-11	72	819	1.	0	0	0	0 0	0	1		261 87	10	2	0	14	1	4	104	313
08:00	169	9	0 0	0	2	26	209 184	0	0	0	0	0 0	1	1		109	7	0	0	4	o	11	131	316
08:15	109	5	1 0	1	6	24	146	0	0	0	0	0 0	1	1		127	4	5	0	2	0	5	143	290
08.45	129	8	1 0	1	1	40	180	1	0	0	0	0 0	0	1		102	9	4	0	0	0	8	123	304
1 Hr	550	34	4 0	3	17	111	719	1	0	0	0	0 0	2	3	-	425	30	- 11	0	-6	1	28	501	1223
09:00	119	23	1 0	1	3	20	167	2	0	0	0	0 0	0	2		90	16	0	0	0	3	5	114	283
09:00 09:16	119 141	23 18	6 0	1 1	3 2	20 16	167 184	0	1	0	0	0 0	0	2 1		90 68	16 8	0	0	0 1 2	3 2 1	5 3 2		283 271
09:00 09:16 09:30	119 141 178	23 18 27		3 1 1 0	3	20	167 184 225				0	0 0	- 5	2 1 1		90	16	0		1	2	5 3 2 5	114 86 99 101	283 271 325 248
09:00 09:16	119 141	23 18	6 0 8 0		3 2	20 16	167 184	0	1	0	0 0	0 0 0 0 0 0	0	3 2 1 1 1 5		90 68 75 78	16 8 18 12 54	0 4 1 2	0 0	1 2 1 4	2 1 3	28 5 3 2 5 15	114 86 99 101 400	283 271 325 248 1127
09:00 09:16 09:30 09:45 1 Hr	119 141 178 116 554	23 18 27 21 89	6 0 8 0 0 1 15 1 4 1	2 3	3 2 3 1 9	20 16 9 7 52 3	167 184 225 146 722 137	0 0 1 3	1 1 0 2	0 0 0	0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0	3 2 1 1 1 5		90 68 75 78 311 77	16 8 18 12 54 16	0 4 1 2 7 3	0 0 0 0 1	1 2 1 4 2	2 1 3 9	5 3 2 5 15	114 86 99 101 400 105	283 271 325 248 1127 243
09:00 09:15 09:30 09:45 1 Hr 10:00 10:15	119 141 178 116 554 117 95	23 18 27 21 89 9	6 0 8 0 0 1 15 1 4 1 4 1	3 0	3 2 3 1 9 0 2	20 16 9 7 52 3 8	167 184 225 146 722 137 118	0 0 1 3 1 0	1 1 0 2 0	0 0 0	0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0	3 2 1 1 1 5		90 68 75 78 311 77 99	16 8 18 12 54 16 13	0 4 1 2 7 3 2	0 0 0 1 0	1 2 1 4 2 2 2	2 1 3 9 3 2	5 3 2 5 15 3 1	114 86 99 101 400 105 119	283 271 325 248 1127 243 238
09:00 09:15 09:30 09:45 1 Hr 10:00 10:15 10:30	119 141 178 116 554 117 95 108	23 18 27 21 89 9 8 13	6 0 0 0 1 15 1 4 1 4 1 2 0	3 0 0	3 2 3 1 9	20 16 9 7 52 3	167 184 225 146 722 137 118 128	0 0 1 3 1 0	1 1 0 2 0 1	0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0	3 2 1 1 1 5 1		90 68 75 78 311 77 99 85	16 8 18 12 54 16 13 16	0 4 1 2 7 3	0 0 0 1 0	1 2 1 4 2 2 0	2 1 3 9 3 2	5 3 2 5 15 3 1 5	114 86 99 101 400 105 119 108	283 271 325 248 1127 243 238 236
09:00 09:15 09:30 09:45 1 Hr 10:00 10:15 10:30 10:45	119 141 178 116 554 117 95 108 98	23 18 27 21 89 9 8 13 26	6 0 0 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	3 0	3 2 3 1 9 0 2	20 16 9 7 52 3 8 5 7	167 184 225 146 722 137 118 128 137	0 0 1 3 1 0	1 1 0 2 0	0 0 0	0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0	3 2 1 1 1 5 1 0 1 3		90 68 75 78 311 77 99	16 8 18 12 54 16 13	0 4 1 2 7 3 2	0 0 0 1 0	1 2 1 4 2 2 2	2 1 3 9 3 2 1 0	5 3 2 5 15 3 1 5 0	114 86 99 101 400 105 119	283 271 325 248 1127 243 238 236 255
09:00 09:15 09:30 09:45 1 Hr 10:00 10:15 10:30 10:45 1 Hr	119 141 178 116 554 117 95 108	23 18 27 21 89 9 8 13	6 0 0 0 1 15 1 4 1 4 1 2 0	3 0 0	3 2 3 1 9 0 2	20 16 9 7 52 3 8	167 184 225 146 722 137 118 128	0 0 1 3 1 0	1 1 0 2 0 1	0 0 0 0 0 0 0 0	0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0	3 2 1 1 1 5 1 0 1 3		90 68 75 78 311 77 99 65 96 359	16 8 18 12 54 16 13 16 12 57	0 4 1 2 7 3 2 0 7	0 0 0 1 0 1 0 2	1 2 1 4 2 2 0 0 4 1	2 1 3 9 3 2 1 0 6	28 5 3 2 5 15 3 1 5 0	114 86 99 101 400 105 119 108 117 449	283 271 325 248 1127 243 238 236 255 972
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09:00 09:15 09:30 09:45 1 Hr 10:00 10:15 10:30 10:45 1 Hr 11:00 11:15 11:30	119 141 178 116 554 117 95 108 98 418 102 116 96	23 18 27 21 89 9 8 13 26 56 20 18	6 0 0 0 1 1 15 1 1 4 1 1 2 0 4 0 1 1 4 2 1 1 0 3 0 0 1 1	0 2 3 0 0 0 0 3 2 0	3 2 3 1 9 0 2 0 2	20 16 9 7 52 3 8 5 7 23 4	167 184 225 146 722 137 118 128 137 520 130 145	0 0 1 3 1 0 0 1 2 0 1 1	1 1 0 2 0 1 0 0 1 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	3 2 1 1 1 5 1 1 0 1 1 3 0 1 1 1 1 1 1 1 1 1 1 1 1 1		90 68 75 78 311 77 99 65 96 359 96 87 109	16 8 18 12 54 16 13 16 12 57 23 24 14	0 4 1 2 7 3 2 0 7	0 0 0 1 1 0 1 0 2	1 2 1 4 2 2 2 0 0 0 4 1 1 2	2 1 3 9 3 2 1 0 6	5 3 2 5 15 3 1 5 0 9	114 86 99 101 400 105 119 108 117 449 125 120 130	263 271 325 248 1127 243 238 255 972 255 266 250
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APPENDIX 15.2

MOBILITY MANAGEMENT PLAN

Project

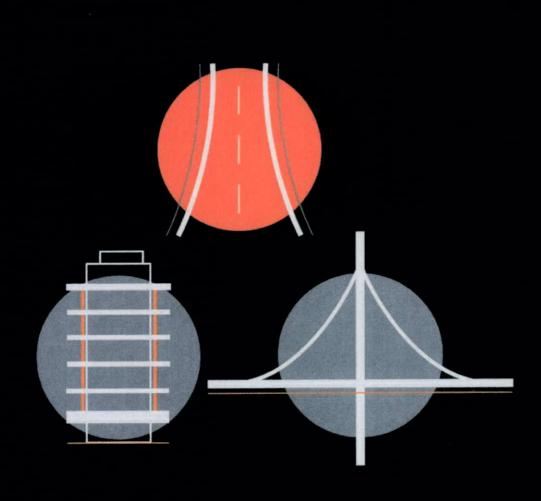
Proposed Residential Development at Sandford Road, Dublin 6

Report Title

Mobility Management Plan

Client

Sandford Living Ltd





Document Control

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2	28/03/2023	Draft Issue	HG	RK	RK
3	12/04/2023	2 nd Draft Issue	HG	RK	RK
4	02/06/2023	Final Planning	HG	RK	RK

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