



DESIGNING AND DELIVERING
A SUSTAINABLE FUTURE

EIAR FOR THE DEVELOPMENT OF A HEALTHCARE WASTE MANAGEMENT FACILITY AT BLARNEY BUSINESS PARK

Volume 2- Main Body of the EIAR Chapter 19 – Schedule of Environmental Commitments

Prepared for:

SRCL Ireland Ltd (T/A Stericycle)



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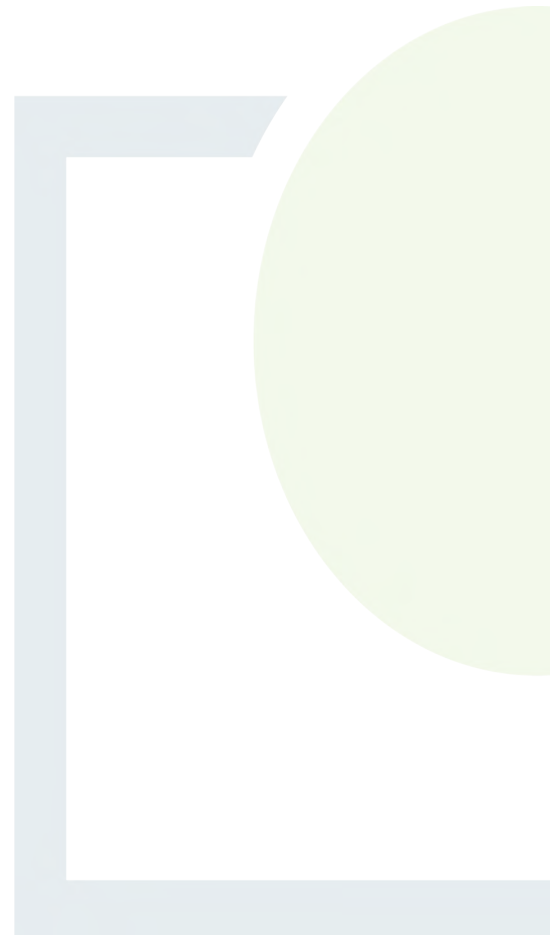


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19. SCHEDULE OF ENVIRONMENTAL COMMITMENTS

19.1 Introduction

This chapter summarises the design measures and mitigation measures (environmental commitments) in the Environmental Impact Assessment Report for the proposed development. Where similar commitments appear in multiple chapters or sections, these have been included in this chapter within their respective sections for completeness.

19.2 Statement of Authority

This chapter of the EIAR was prepared Sanghamitra Nidhi Dutta and reviewed by Richard Deeney of Fehily Timoney and Company (FT).

Sanghamitra is a Project Environmental Scientist with FT. Sanghamitra has ca. five years' experience providing environmental consultancy services in the areas of EIA, SEA, Environmental Management and Waste Management. Sanghamitra has an MSc. In Global Change: Ecosystem Science and Policy from University College Dublin.

Richard is Principal Environmental Scientist who works in the Circular Economy and Environment group FT. He has ca. 13 years of experience. He is vastly experienced in the coordination and completion of planning applications; EIA, including EIA Screening, EIA Scoping and the production of Environmental Impact Assessment Reports (EIARs); Strategic Environmental Assessment (SEA) and Appropriate Assessment (AA) of plans and programmes; IE/IPC/Waste Licensing and Compliance; and Sustainability and Climate Action consultancy. He leads an Environmental Science team that delivers projects in these areas. He is an expert project manager who has led and successfully delivered a wide range of strategic and complex projects. He has expertise in assessing the effects of plans and projects on a wide breadth of environmental topics.



19.3 Population and Human Health

Mitigation No.	EIA Section Reference	Description of Design Measures and Mitigation Measures/Commitments	Stage
1.	7.6.2	All activities undertaken as part of the construction phase of the proposed development will be carried out in accordance with a robust Construction Environmental Management Plan (CEMP), provided in Appendix 4.1 of Volume 3 of this EIA. The CEMP provides for the management and control of dust emissions, noise emissions, materials management, surface water management, spill control, waste management and archaeological, architectural and cultural heritage management. With the adoption of this plan, the proposed development will not have any significant impacts on these receiving environmental elements and associated sensitive human receptors (i.e. site staff and visitors, near neighbours, local land use).	Construction
2.	7.6.2	Prior to construction, a site-specific Safety and Health Risk Assessment/Management Plan and a Safety Statement will be prepared for the project in accordance with the Safety, Health and Welfare at Work (Construction) Regulations 2013 (S.I. No. 291 / 2013), as amended. Where elimination of the risk is not feasible, appropriate mitigation and/or control measures will be established. The contractor will be obliged under the construction contract and current health and safety legislation to adequately provide for all hazards and risks associated with the construction phase of the project. FÁS Safe Pass registration cards are required for all construction, delivery and security staff. Construction operatives will hold a valid Construction Skills Certificate Scheme card where required. The contractor will be responsible for the implementation of procedures outlined in the Safety & Health Plan. Public safety will be addressed by restricting site access during construction. Appropriate warning signs will be posted, directing all visitors to the site manager. During the construction phase, access to the site will be restricted to ensure that the public will not come into contact with the construction works.	Construction
3.	7.6.3	Activities at the proposed facility will be controlled from a health and safety perspective in accordance with the Safety, Health and Welfare at Work Acts 2005 (as amended). A Health and Safety Management System will be in place for the site. In particular, a Safety Statement, a Traffic Management Plan, an Emergency Plan, an Environmental Accident Prevention Procedure and a Corrective-Preventative Action procedure will be in place to manage and control health safety risks posed to persons on and off-site. A Safety Statement will be developed in order to allow for the comprehensive identification, assessment and control of health and safety risks present on-site.	Operation



Mitigation No.	EIA Section Reference	Description of Design Measures and Mitigation Measures/Commitments	Stage
		A detailed traffic management system addressing site control, gate control, speed limit, employee access/egress and visitor movement management will be in place to control movements on-site. As a result, it is considered that all risk associated with mobile plant and traffic movements will be comprehensively managed and controlled. An Emergency Preparedness and Response Procedure will be adopted during facility operations. This will address emergency preparedness and response plans in the event of an unplanned accident or emergency (E.g. fire, environmental incident, site security breach, accidents and incidents). An Accident Prevention Policy will also be adopted to prevent accidents. All of the above health and safety plans and procedures will be implemented on-site for the duration of the operational phase of the proposed development.	
4.	7.6.3	A comprehensive and detailed Emergency Preparedness and Response Procedure for managing and responding to potential accidents, including major accidents, will be adopted and implemented at the facility. Health and safety procedures at the proposed facility will address the following aspects: - Controlling access to site - Emergency response and preparedness - Fire protection and mitigation - Emissions to atmosphere - Emissions to water - Accidents and occupational first-aid - System safety rules - Application of safety rules - Workplace noise and dust - Hot working - Working in confined spaces - Work at heights - Control of chains, ropes and lifting gear - Risk assessments and method statements	Operation



Mitigation No.	EIA Section Reference	Description of Design Measures and Mitigation Measures/Commitments	Stage
		Accident & incident reporting investigation Oil and chemical spillage control	
5.	7.6.3	The proposed facility will operate under an IE Licence which will be enforced by the EPA. All site operations and activities will be undertaken in accordance with this licence. Environmental emissions which may affect human health including noise and air emissions will be monitored, regulated and controlled under this licence. All potential environmental impacts and emission associated with site operations, as well as decommissioning, will be regulated, controlled and monitored in accordance with the terms of this licence.	Operation
6.	7.6.4	Decommissioning of the proposed facility will take place in accordance with the terms of a Closure Plan and the prospective IE licence for the facility. This plan will provide for the management, control and mitigation of known and unknown environmental risks, liabilities and impacts associated with the site. The regulating authority, the EPA, will be responsible for enforcing the adoption and implementation of this plan and the successful and environmentally safe decommissioning of the sites. It is intended to wind the operation down gradually until such time the vast majority of residual wastes and materials are removed from the site. Residual materials will be classified prior to being dispatched to an appropriately authorised waste management facility for treatment. The implementation of this plan will mitigate against the potential for any adverse impacts on the receiving environment and human health as a result of potential environmental impacts/emissions from the site.	Decommissioning



19.4 Biodiversity

No mitigation measures were defined for biodiversity due to a lack of potential for effects to this environmental component.

19.5 Soils, Geology and Hydrogeology

Mitigation No.	EIA Section Reference	Description of Design Measures and Mitigation Measures/Commitments	Stage
1.	9.6.1	The construction/installation works will be designed, overseen and checked by competent engineers, suitably qualified and experienced in construction and the installation of a healthcare waste management facility.	Design
2.	9.6.1	Refuelling of machinery and plant during construction will only occur off-site to avoid any risk of contamination due to refuelling spills.	Design
3.	9.6.1	Waste/material generated during construction activities will be managed in accordance with the Resource and Waste Management Plan (RWMP) for the proposed development. All waste material generated during construction will be dispatched to an appropriately authorised waste management facility.	Design
4.	9.6.1	To ensure the highest standards of environmental protection, the proposed development has been designed to operate in accordance with the following environmental protection standards: - o European Commission (2018) BREF on Waste Treatment. - o European Commission (2018) BATC on Waste Treatment. - o EPA (2011) BAT Guidance Note on the Waste Sector.	Design
5.	9.6.1	Effluent arising from the treatment process condensate and bin washing will be discharged from the operational area within the building (consisting of the waste processing and handling plant and ancillary plant/equipment/facilities, as well as the bin washing area) to the 150 mm diameter foul water pipeline serving the building through pipework and ACO drains installed within the area. This effluent will be discharged to the foul sewer mains in accordance with Uisce Eireann and EPA requirements defined under the Industrial Emissions licence for the facility. Domestic wastewater generated within an ancillary building facilities such as the staff welfare facility or canteen, will be also directed to the foul sewer mains via foul pipe. All wastewater arising at the proposed facility will be conveyed to the Blarney Wastewater Treatment plant for appropriate treatment.	Design



Mitigation No.	EIA Section Reference	Description of Design Measures and Mitigation Measures/Commitments	Stage
6.	9.6.1	Stormwater entering the drainage systems on-site will be directed to suitably designed, existing stormwater attenuation systems. A hydrobrake will be situated after the attenuation tank and will also be used to limit/control flow off-site to 8.55 litres per second. These systems will serve to prevent the rapid release of stormwater generated on hard-standing areas on-site.	Design
7.	9.6.1	An existing, suitably sized oil separator is situated on-site. This will serve to prevent the discharge of oil-based material associated with site traffic during both construction/installation works and facility operations. It will be routinely inspected and maintained in accordance with manufacturer specifications.	Design
8.	9.6.1	All waste management operations will be carried out inside the existing building on-site. There will be no waste storage, handling or processing in the external yard area.	Design
9.	9.6.1	The existing building has been designed to act as a firewater retention system in the event of a fire at the waste facility. This system has been designed in accordance with EPA requirements and will serve to retain worst-case firewater volumes that could be generated during a fire at the facility.	Design
10.	9.6.1	The facility will operate in accordance with an Environmental Management System certified to ISO 14001: 2015.	Design
11.	9.6.1	The proposed facility has been designed to ensure waste material arriving on-site is highly contained. All waste arriving on-site will be in sealed containers and will only be offloaded inside the building on-site. The waste treatment process is also a contained process. There is negligible risk of waste becoming exposed and creating adverse environmental effects. - o As part of the proposed development, there will be designated waste storage areas/facilities for waste pending treatment; waste pending re-packaging and transfer; treated waste residues for transfer; and re-packaged waste for transfer. These storage areas/facilities will have impermeable surfaces and sealed drainage and all waste will be stored in fully enclosed, leak-proof containers. - o All hazardous waste containers brought on-site will be stored in appropriately sized bunded containers, providing secondary retention. - o The building-site will also serve as a tertiary containment structure in the event of spill or fire event.	Design



Mitigation No.	EIAR Section Reference	Description of Design Measures and Mitigation Measures/Commitments	Stage
12.	9.6.1	A Spill Control and Response Procedure will be in place at the facility. Spill kits will be made available on-site. Staff will be trained in the use of spill kits.	Design
13.	9.6.1	A Housekeeping Procedure and a Waste Storage Plan will be implemented to prevent improper storage/generation of waste in outdoor locations (i.e. regular inspection, proper waste handling etc.).	Design
14.	9.6.1	Robust operational control practices will be in place at the proposed facility to prevent any loss of containment of waste (e.g., Waste Acceptance Procedure, Waste Reception, Recording and Tracking Procedure, Waste Storage Plan, Accident Prevention Policy and Emergency Preparedness and Response Procedure etc.).	Design
15.	9.6.1	Decommissioning of the proposed facility/site will take place in accordance with the terms of a Closure Plan and the prospective IE licence for the facility. It is intended to wind the operation down gradually until such time the vast majority of residual wastes and materials are removed from the site. All site washdown and decontamination will take place in accordance with defined method statements. Surface water drainage systems will be sealed shut during washdown / decontamination. Wash water arisings will be retained, taken up and dispatched to an appropriately authorized wastewater treatment facility for appropriate treatment.	Design
16.	9.6.2	A Construction Environmental Management Plan (CEMP) has been prepared for the proposed development and is included in Appendix 4.1 Construction Environmental Management Plan in Volume 3 of this EIAR. Measures for the protection of soils, geology and hydrogeology are defined in this CEMP. The CEMP defines the work practices, environmental management procedures and management responsibilities relating to the construction phase of the proposed development. The CEMP describes how the Contractor for the main construction works will implement a site Environmental Management System (EMS) to meet the specified contractual, regulatory and statutory requirements including the requirements identified as part of the environmental impact assessment process. The CEMP will be updated prior to construction to take account of any amendments arising during the consenting process and relevant conditions attached to the planning permission and will be implemented for the duration of the construction phase of the project. The CEMP will be a live document and will be reviewed and updated as required.	Construction



Mitigation No.	EIA Section Reference	Description of Design Measures and Mitigation Measures/Commitments	Stage
17.	9.6.2	Specific measures relating to the management of hydrocarbons are as follows: • An existing oil separator is situated on-site. This will be in operation during the construction/installation works and will serve to prevent the discharge of oil-based material. It will be routinely inspected and maintained. • Appropriately sized drip trays will be utilized on-site where necessary to prevent the release of any oils that may be released during work activities. • Spill kits containing oil soakage pads and booms will be made available on-site to ensure prompt and adequate clean-up of any accidental fuel or oil spills. • Any waste oils will be collected in leak-proof containers and stored in bunds prior to removal from the site. • An Emergency/Spill Response Procedure will be prepared, and all construction site operatives will be briefed on the response measures required during the site inductions and routine toolbox talks. • All site plant will be inspected at the beginning of each day prior to use. Defective plant shall not be used until the defect is satisfactorily fixed. All fuelling and major repair and maintenance operations will take place off-site. Vehicles entering the site will be in good working order, free from leakage of fuel or hydraulic fluid.	Construction
18.	9.6.2	The following measures are proposed to prevent the release of cement-based products to the receiving geology and hydrogeology environments during the construction phase of the proposed development: • All concrete works will be undertaken inside the building on-site, under dry and contained conditions. • No batching of wet-cement products will occur on site. Ready-mixed supply of wet concrete products and where possible, emplacement of pre-cast elements, will take place. • Where concrete is delivered on site, only the chute need be cleaned, using the smallest volume of water possible. The water will be captured in washout container, safely contained and collected and then dispatched off-site for appropriate management/treatment. There will be no discharge of cement contaminated waters to the drainage system on-site.	Construction
19.	9.6.3	Facility operations will be carried out in accordance with the conditions of an Industrial Emissions licence enforced by the EPA. This authorisation will define strict environmental protection standards in relation to the proposed facility. This authorisation will necessitate the development and implementation of an Environmental Management System (EMS) for the proposed facility.	Operation



Mitigation No.	EIA Section Reference	Description of Design Measures and Mitigation Measures/Commitments	Stage
20.	9.6.3	The facility will be designed and constructed in accordance with best practices to control any potential risk from accidents during the operation phase and associated potential impacts to soils, geology and hydrogeology at the proposed development. An Accident Prevention Policy and Emergency Preparedness and Response Procedure, a Fire Prevention Plan and a Spill Control and Response Procedure will be implemented during the operation phase of the facility to address potential spills. The facility building has been designed to ensure the retention of contaminated firewater that may arise during a fire event on-site.	Operation
21.	9.6.4	To prevent the release of fuels or oils during decommissioning, mitigation measures similar to the fuel/oil control measures proposed for the construction phase of the proposed development will be implemented during decommissioning	Decommissioning



19.6 Hydrology and Surface Water

Mitigation No.	EIA Section Reference	Description of Design Measures and Mitigation Measures/Commitments	Stage
1.	10.7.1	The construction/installation works will be designed, overseen and checked by competent engineers, suitably qualified and experienced in construction and the installation of a healthcare waste management facility.	Design
2.	10.7.1	Refuelling of machinery and plant during construction will only occur off-site to avoid any risk of contamination due to refuelling spills.	Design
3.	10.7.1	Waste/material generated during construction activities will be managed in accordance with the Resource and Waste Management Plan (RWMP) for the proposed development. All waste material generated during construction will be dispatched to an appropriately authorised waste management facility.	Design
4.	10.7.1	To ensure the highest standards of environmental protection, the proposed development has been designed to operate in accordance with the following environmental protection standards: - European Commission (2018) BREF on Waste Treatment. - European Commission (2018) BATC on Waste Treatment. - EPA (2011) BAT Guidance Note on the Waste Sector.	Design
5.	10.7.1	Effluent arising from the treatment process condensate and bin washing will be discharged from the operational area within the building (consisting of the waste processing and handling plant and ancillary plant/equipment/facilities, as well as the bin washing area) to the 150 mm diameter foul water pipeline serving the building through pipework and ACO drains installed within the area. This effluent will be discharged to the foul sewer mains in accordance with Uisce Éireann and EPA requirements defined under the Industrial Emissions licence for the facility. Domestic wastewater generated within ancillary building facilities such as the staff welfare facility or canteen, will be also directed to the foul sewer mains via foul pipe. All wastewater arising at the proposed facility will be conveyed to the Blarney Wastewater Treatment plant for appropriate treatment.	Design
6.	10.7.1	Stormwater entering the drainage systems on-site will be directed to suitably designed, existing stormwater attenuation systems. A hydrobrake will be situated after the attenuation tank and will also be used to limit/control flow off-site to 8.55 litres per second. These systems will serve to prevent the rapid release of stormwater generated on hard-standing areas on-site.	Design



Mitigation No.	EIA Section Reference	Description of Design Measures and Mitigation Measures/Commitments	Stage
7.	10.7.1	An existing, suitably sized oil separator is situated on-site. This will serve to prevent the discharge of oil-based material associated with site traffic during both construction/installation works and facility operations. It will be routinely inspected and maintained in accordance with manufacturer specifications.	Design
8.	10.7.1	All waste management operations will be carried out inside the existing building on-site. There will be no waste storage, handling or processing in the external yard area.	Design
9.	10.7.1	The existing building has been designed to act as a firewater retention system in the event of a fire at the waste facility. This system has been designed in accordance with EPA requirements and will serve to retain worst-case firewater volumes that could be generated during a fire at the facility.	Design
10.	10.7.1	The facility will operate in accordance with an Environmental Management System certified to ISO 14001: 2015.	Design
11.	10.7.1	The proposed facility has been designed to ensure waste material arriving on-site is highly contained. All waste arriving on-site will be in sealed containers and will only be offloaded inside the building on-site. The waste treatment process is also a contained process. There is negligible risk of waste becoming exposed and creating adverse environmental effects.	Design
12.	10.7.1	As part of the proposed development, there will be designated waste storage areas/facilities for waste pending treatment; waste pending re-packaging and transfer; treated waste residues for transfer; and re-packaged waste for transfer. These storage areas/facilities will have impermeable surfaces and sealed drainage and all waste will be stored in fully enclosed, leak-proof containers.	Design
13.	10.7.1	All hazardous waste containers brought on-site will be stored in appropriately sized bunded containers, providing secondary retention.	Design
14.	10.7.1	The building-site will also serve as a tertiary containment structure in the event of spill or fire event.	Design
15.	10.7.2.1	A Construction Environmental Management Plan (CEMP) has been prepared for the proposed development and is included in Appendix 4.1 Construction Environmental Management Plan in Volume 3 of this EIA. Measures for the protection of soils, geology and hydrogeology are defined in this CEMP. The CEMP defines the work practices, environmental management procedures and management responsibilities relating to the construction phase of the proposed development. The CEMP describes how the Contractor for the main construction works will implement a site Environmental Management System (EMS) to meet the specified contractual, regulatory and statutory requirements including the requirements identified as part of the environmental impact assessment process.	Construction



Mitigation No.	EIA Section Reference	Description of Design Measures and Mitigation Measures/Commitments	Stage
		The CEMP will be updated prior to construction to take account of any amendments arising during the consenting process and relevant conditions attached to the planning permission and will be implemented for the duration of the construction phase of the project. The CEMP will be a live document and will be reviewed and updated as required.	
16.	10.7.2.2	Details of oil spill protection measures and emergency spill response procedures are defined in the CEMP which is contained in Appendix 4.1 Construction Environmental Management Plan in Volume 3 of this EIA.	Construction
17.	10.7.2.2	An existing oil separator is situated on-site. This will be in operation during the construction/retrofitting works and will serve to prevent the discharge of oil-based material. It will be routinely inspected and maintained.	Construction
18.	10.7.2.2	Appropriately sized drip trays will be utilized on-site where necessary to prevent the release of any oils that may be released during work activities.	Construction
19.	10.7.2.2	Spill kits containing oil soakage pads and booms will be available on-site to ensure prompt and adequate clean-up of any accidental fuel or oil spills.	Construction
20.	10.7.2.2	Any waste oils will be collected in leak-proof containers and stored in bunds prior to removal from the site.	Construction
21.	10.7.2.2	An Emergency/Spill Response Procedure will be prepared, and all construction site operatives will be briefed on the response measures required during the site inductions and routine toolbox talks.	Construction
22.	10.7.2.2	All site plant will be inspected at the beginning of each day prior to use. Defective plant shall not be used until the defect is satisfactorily fixed. All fuelling and major repair and maintenance operations will take place off-site. Vehicles entering the site will be in good working order, free from leakage of fuel or hydraulic fluid.	Construction
23.	10.7.2.2.1	All concrete works will be undertaken inside the building on-site, under dry and contained conditions.	Construction
24.	10.7.2.2.1	No batching of wet-cement products will occur on site. Ready-mixed supply of wet concrete products and where possible, emplacement of pre-cast elements, will take place.	Construction



Mitigation No.	EIA Section Reference	Description of Design Measures and Mitigation Measures/Commitments	Stage
25.	10.7.2.2.1	Where concrete is delivered on site, only the chute need be cleaned, using the smallest volume of water possible. The water will be captured in washout container, safely contained and collected and then dispatched off-site for appropriate management/treatment. There will be no discharge of cement contaminated waters to the drainage system on-site.	Construction
26.	10.7.3.1	Regulatory Control Facility operations will be carried out in accordance with the conditions of an Industrial Emissions licence enforced by the EPA. This authorisation will define strict environmental protection standards in relation to the proposed facility. This authorisation will necessitate the development and implementation of an Environmental Management System (EMS) for the proposed facility. This authorisation will require the Applicant to carry out and report stormwater monitoring at the facility on a periodic basis.	Operation
27.	10.7.3.2	Accidents The facility will be designed and constructed in accordance with best practices to control any potential risk from accidents during the operation phase and associated potential impacts to hydrology and surface water at the proposed development. An Accident Prevention Policy and Emergency Preparedness and Response Procedure, a Fire Prevention Plan and a Spill Control and Response Procedure will be implemented during the operation phase of the facility to address potential spills. The facility building has been designed to ensure the retention of contaminated firewater that may arise during a fire event on-site.	Operation
28.	10.7.3.3	Stormwater Drainage System Maintenance Drainage systems including drains, gullies and oil interceptors will be inspected regularly. These systems will be cleaned and maintained as necessary. Oil interceptors will be serviced/maintained periodically in accordance with manufacturer specifications to ensure they function correctly at all times.	Operation
29.	10.7.3.4	Stormwater Monitoring Stormwater monitoring will be implemented on an ongoing basis at the site during facility operations in accordance with the requirements of the IE licence to ensure the efficacy of the operational phase mitigation measures proposed, and to ensure that only uncontaminated stormwater is discharged from the site to the Blarney Business Park drainage system. Stormwater monitoring will be undertaken in accordance with a Stormwater Monitoring Plan for the facility, which will be a requirement of the Industrial Emission licence for the facility. This plan will accord with EPA guidelines/requirements regarding stormwater discharge monitoring at licensed facilities.	Operation



Mitigation No.	EIA Section Reference	Description of Design Measures and Mitigation Measures/Commitments	Stage
30.	10.7.4	This Stormwater Monitoring Plan will ensure there is a robust mechanism in place to detect stormwater contamination as early as possible and prevent the discharge of pollutants to any receiving water bodies downstream of the facility. The adoption and implementation of this Stormwater Monitoring Plan will ensure and verify that only uncontaminated stormwater is discharged from the site and will ensure that operational phase stormwater discharges will have no impact on the receiving surface water environment. To prevent the release of fuels or oils during decommissioning, mitigation measures similar to the fuel/oil control measures proposed for the construction phase of the proposed development will be implemented during decommissioning	Decommissioning

19.7 Air Quality

Mitigation No.	EIA Section Reference	Description of Design Measures and Mitigation Measures/Commitments	Stage
1.	11.9.1	The proposed development has been assessed as having a low risk of dust soiling impacts and a negligible risk of dust related human health impacts during the construction phase as a result of construction and trackout activities (see Section 11.8.2.1). Therefore, the following dust mitigation measures shall be implemented during the construction phase of the Proposed Development. These measures are appropriate for sites with a medium risk of dust impacts and aim to ensure that no significant nuisance occurs at nearby sensitive receptors. The mitigation measures draw on best practice guidance from Ireland (DCC(2018), DLRCC(2022)), the UK (IAQM(2024), BRE(2003), The Scottish Office(1996), UKODPM(2002)) and the USA (USEPA, 1997). These measures will be incorporated into the Construction Environmental Management Plan (CEMP) prepared for the site. The measures are divided into different categories for different activities.	Construction
2.	11.9.1	An Environmental Manager (EM) will be assigned by the appointed contractor. The EM will be responsible for co-ordinating the day-to-day management of environmental impacts during the Construction Phase. The EM will be responsible for performing inspections as deemed necessary and manage responses to environmental incidents. The name and contact details of the EM will be responsible for construction dust management and air quality issues will be displayed at the construction compound/site boundary hoarding, as well as head/regional office contact details.	Construction



Mitigation No.	EIA Section Reference	Description of Design Measures and Mitigation Measures/Commitments	Stage
		A complaints register will be kept by the appointed contractor detailing all telephone calls and letters of complaint received in connection with dust nuisance or air quality concerns, together with details of any remedial actions carried out	
3.	11.9.1	Storage areas/containers will be covered to prevent wind whipping.	Construction
4.	11.9.1	Cutting, grinding or sawing equipment will be fitted with or used in conjunction with suitable dust suppression techniques such as water sprays or local extraction, e.g. suitable local exhaust ventilation systems.	Construction
5.	11.9.1	Equipment will be readily available in the construction works area to clean any dry spillages. Spillages will be cleaned up as soon as reasonably practicable after the event using wet cleaning methods.	Construction
6.	11.9.1	Engines of all vehicles will be switched off engines when stationary - idling vehicles are not permitted.	Construction
7.	11.9.1	Smaller supplies of fine power materials bags will be sealed after use and stored appropriately to prevent dust escaping.	Construction
8.	11.9.1	Vehicles transporting any loose materials entering and leaving the Proposed Development works area will be covered with tarpaulin to prevent escape of materials during transport. Before entrance onto public roads, trucks will be checked to ensure the tarpaulins are properly in place.	Construction
9.	11.9.1	To determine if any short-term dust impacts will occur, a minimum of daily visual inspections for dust soiling of receptors (including roads, and surfaces such as street furniture, cars and windowsills) adjoining the construction works areas will be undertaken. Inspection results will be recorded in the site inspection log. Cleaning will be provided if necessary, such as in the event of a dust complaint resulting from the Proposed Scheme construction works.	Construction
10.	11.9.3	As the dust emissions during the decommissioning phase are expected to be of a similar or lesser magnitude to those identified during the construction phase, the mitigation measures applicable to construction phase dust emissions are also considered suitable for those during the decommissioning phase.	Decommissioning



19.8 Climate

Mitigation No.	EIA Section Reference	Description of Design Measures and Mitigation Measures/Commitments	Stage
1.	12.7.1	It was decided to install the Healthcare Waste Management Facility at an existing built development site. This would negate the need to carry out large scale construction, including site, clearance, excavation and the construction of buildings and infrastructure, at a greenfield. This design decision has resulted in the avoidance of a substantial quantity of construction phase GHG emissions.	Design
2.	12.7.1	The proposed development is being undertaken to ensure the provision of healthcare waste management capacity in the southern and western regions, in alignment with the Proximity Principle and Self-Sufficiency Principle enshrined in waste law. It will support the indigenous treatment of healthcare waste and promote material recovery and recycling (and diversion from landfill).	Design
3.	12.7.1	The proposed development allows Stericycle to divert waste collection vehicles serving the southern and western regions to Cork City, rather than hauling the waste to Stericycle's existing Dublin facilities. It is predicted that this will result in a 700,000 km per annum reduction in vehicle miles. Using TII's Carbon Assessment Tool, it is estimated that this will save 759.15 tCO ₂ e per annum and 37,958 tCO ₂ e over the 50 year lifetime of the project.	Design
4.	12.7.2	Stericycle propose using an electric forklift on-site during construction instead of a diesel-powered forklift to reduce GHG emissions.	Construction
5.	12.7.2	A Resource and Waste Management Plan (RWMP) has been developed and will guide construction material and waste management activities. This RWMP will promote resource efficiency material reuse and sustainable waste management insofar as practicable during construction	Construction
6.	12.7.2	A Construction Stage Safety and Health Plan will be prepared for construction of the proposed development. This plan will provide a framework for health and safety management during construction. It will facilitate the identification of hazards and effective risk management. This plan will be designed to address climate hazards facing staff on-site during construction. Risk management measures will be put in place to minimise risk to people and assets associated with climate hazards such as flooding, extreme temperatures and extreme wind.	Construction
7.	12.7.3	Variable Speed Drives that meet energy efficiency class IE3 will be utilised in plant and equipment during operation to achieve optimum energy efficiency at the facility.	Operation



Mitigation No.	EIA Section Reference	Description of Design Measures and Mitigation Measures/Commitments	Stage
8.	12.7.3	All waste management activities will take place inside the building on-site. This will prevent extreme climate-related weather events impacting upon operations or waste storage. A Waste Storage Plan for the site will be developed and implemented to ensure waste is safely and securely stored in a contained manner in designated locations inside the building.	Operation
9.	12.7.3	An Emergency Response Procedure (ERP) will be in place at the proposed facility. This ERP will be used to respond to any climate related events affecting the site.	Operation
10.	12.7.3	The on-site drainage system will be subject to regular inspection, maintenance, and servicing to maintain its performance and prevent flooding due to blockage or system failure during extreme climate events.	Operation

19.9 Noise and Vibration

Mitigation No.	EIA Section Reference	Description of Design Measures and Mitigation Measures/Commitments	Stage
1.	13.10.1	The site layout and orientation ensures that noise from external sources such as HGVs and forklifts will be screened from the closest receptor to the north and maximum distance between noise sources and receptors is achieved.	Design
2.	13.10.1	The facility was constructed using Kingspan Quadcore insulated wall and roof panels which provide a high degree of sound insulation performance and will allow for reduced noise breakout from the facility operations.	Design
3.	13.10.1	The facility will also utilise fast acting roller shutter doors, which will ensure that doors will not be left open during operations.	Design
4.	13.10.2	The noise impact for construction works traffic will be mitigated by restricting movements along access routes to the standard working hours, unless specifically agreed otherwise. Consultation with the local community is important in minimising noise impacts, and therefore any out of hours working would be agreed in advance with the planning authority. In addition, residents will be informed of construction activities through the Community Liaison Officer.	Construction



Mitigation No.	EIA Section Reference	Description of Design Measures and Mitigation Measures/Commitments	Stage
5.	13.10.2	The construction works on site will be carried out in accordance with the guidance set out in BS 5228:2009+A1:2014, and the noise control measures set out in Appendix 4.1 Construction Environmental Management Plan (CEMP), in Volume 3 of this EIA.	Construction
6.	13.10.2	Proper maintenance of plant will be employed to minimise the noise produced by any site operations. All vehicles and mechanical plant will be fitted with effective exhaust silencers and maintained in good working order for the duration of the project, with particular attention paid to the lubrication of bearings	Construction
7.	13.10.2	Machinery that is used intermittently will be shut down or throttled back to a minimum during periods when not in use.	Construction
8.	13.10.2	Plant known to emit noise strongly in one direction will, when possible, be orientated so that the noise is directed away from noise-sensitive locations.	Construction
9.	13.10.2	A speed limit of 15km/h will be enforced on-site.	Construction
10.	13.10.2	Drop heights for construction equipment/materials will be minimised.	Construction
11.	13.10.2	Training will be provided by the Site Manager to workers and drivers to ensure smooth machinery operation/driving, and to minimise unnecessary noise generation.	Construction
12.	13.10.2	The hours of construction activity will be limited to avoid unsociable hours where possible. Construction operations shall be restricted to between 7:00hrs and 18:00hrs, Monday to Friday, and 08:00hrs to 14:00hrs on Saturdays. No construction work is permitted on Sundays or bank holidays. If it is necessary to work outside these hours, any such out of hours working would be agreed in advance with the planning authority and in consultation with the local community.	Construction
13.	13.10.2	Construction contractors will be required to comply with the requirements of the European Communities (Construction Plant and Equipment) (Permissible Noise Levels) Regulations, 1988 as amended in 1990 and 1996 (S.I. No. 320 of 1988, S.I. No. 297 of 1990 and S.I. No. 359 of 1996), and the Safety, Health and Welfare at Work (Control of Noise at Work) Regulations, 2006 (S.I. No. 371 of 2006).	Construction
14.	13.10.3	Purchasing low noise generating equipment.	Operation
15.	13.10.3	Roller doors will be closed during operation of internal equipment.	Operation
16.	13.10.3	Drop heights of materials will be minimised.	Operation
17.	13.10.3	Equipment will be properly maintained and inspected regularly.	Operation



Mitigation No.	EIA Section Reference	Description of Design Measures and Mitigation Measures/Commitments	Stage
18.	13.10.3	The unnecessary revving of engines shall be avoided and equipment shall be switched off when not in use.	Operation
19.	13.10.4	As good practice, the noise control measures outlined in the Appendix 4.1 Construction Environmental Management Plan, in Volume 3 of this EIA, and in Section 13.10.2 will be implemented, in addition to any measures in best practice guidance available at the time of decommissioning.	Decommissioning

19.10 Traffic and Transportation

Mitigation No.	EIA Section Reference	Description of Design Measures and Mitigation Measures/Commitments	Stage
1.	14.12.1	A detailed 'Construction Environmental Management Plan' (CEMP) details the allowable working day, construction traffic, parking arrangements and incorporates environmental protection measures.	Construction
2.	14.12.1	Construction Traffic Management Plan - A Construction Traffic Management Plan (CTMP) will be prepared, including measures to provide information to affected parties, including advising land and property owners in advance of any diversions. Local access shall be maintained at all times. In addition, it is proposed that temporary signage shall be put in place to minimise disruption and ensure all road users understand that construction works are in progress. - The Construction Traffic Management Plan will be prepared and agreed with the local authority in advance of works commencing.	Construction
3.	14.12.1	Construction HGV routes will be defined to avoid local residential areas and sensitive receptors, with access limited to designated haul routes.	Construction
4.	14.12.1	Construction deliveries will be scheduled to avoid local network peak hours where possible.	Construction
5.	14.12.1	Wheel-wash facilities will be used where necessary to prevent deposition of mud or debris on public roads.	Construction
6.	14.12.1	All construction vehicles will be required to comply with safety standards, including visible identification, reversing alarms, and, where relevant, banksmen assistance for manoeuvres.	Construction



Mitigation No.	EIA Section Reference	Description of Design Measures and Mitigation Measures/Commitments	Stage
7.	14.12.1	Construction staff often travel together or live in rented accommodations near the site for various practical and logistical reasons. Sharing transport or accommodation can be cost-effective in reducing individual expenses and so construction staff often arrange shared housing or travel allowances. Living close to the site minimises commuting time thus improving punctuality and availability in emergencies or for extended hours occasionally. Since specialist projects often require skilled workers who may not reside locally contractors often aim to provide accommodation near the site to ensure the necessary workforce is available without disrupting project timelines. Where staff are based in the same accommodation it is typical for them to commute together and in some cases a contractor may pick workers up by minibus. Vans or minibuses organised by the Contractor may carry up to 8–15 people. In general, in areas with limited public transport, shared vehicles or organised minibus shuttling are more common. The Contractor for the development is not known but it is an objective of the developer to encourage the Contractor to organise minibus shuttling from areas where there is a concentration of construction staff and also from public transport nodes should there be demand for that service. The use of minibus shuttling has the potential to reduce the number of cars travelling to the site on a daily basis albeit that the total number is not significant.	Construction
8.	14.12.1	The Contractor will be encouraged to adopt the principles of mobility management and to reduce where practicable the levels of private car use for transport to the site by encouraging people to walk, cycle, use public transport, car share or to reduce the frequency and/or length of trips. The Contractor will be encouraged to find local accommodation and to provide a minibus shuttling service where practicable and construction staff will be encouraged to car share where practicable.	Construction
9.	14.12.1	The Contractor will be encouraged to find local accommodation and to provide a minibus shuttling service where practicable and construction staff will be encouraged to car share where practicable.	Construction
10.	14.12.2.1	HGV deliveries and exports will be spread evenly throughout the day, avoiding unnecessary clustering and reducing potential for congestion. The site access and internal circulation is designed to accommodate HGVs safely and efficiently. The proposed facility will operate a delivery management system to monitor and manage HGV scheduling. Regular road maintenance and inspection of the site entrance will be conducted to ensure safety and cleanliness of the immediate road interface.	Operation



Mitigation No.	EIA Section Reference	Description of Design Measures and Mitigation Measures/Commitments	Stage
11.	14.12.2.2	Workplace Travel Plan Statement The proposed waste management facility at Blarney Business Park will employ approximately 28 no. staff. As this number falls within the 25–100 no. employee threshold set out in Cork City Development Plan 2022-2028, Table 11.12 ‘Workplace Travel Plan Thresholds’, the preparation of a Workplace Travel Plan Statement is required. This statement outlines the measures to be implemented at the facility to promote and facilitate sustainable travel choices by staff and visitors, in line with local and national transport policy objectives.	Operation
12.	14.12.2.2	Secure, covered cycle parking will be provided within the development for use by staff.	Operation
13.	14.12.2.2	Dedicated showers and changing areas will be provided to encourage cycling and walking by staff who live within practical distance of the Business Park.	Operation
14.	14.12.2.2	Staff will be encouraged to car-share where operational requirements allow, reducing single-occupancy car journeys.	Operation
15.	14.12.2.2	The facility will consider flexible shift and roster arrangements where possible, which may allow employees to make use of limited local public transport services and reduce peak hour car dependency.	Operation
16.	14.12.2.2	Sustainable travel options (as they develop) will be promoted to staff through induction materials and noticeboards within the workplace.	Operation
17.	14.12.2.2	The development has been designed to accommodate additional cycle parking or electric vehicle charging infrastructure should demand increase overtime, in line with evolving transport policy and improved local connectivity.	Operation
18.	14.12.2.3	Proposed Driver Induction Training When commencing the operational phase of the proposed development drivers that will be using the site will be required to attend a HGV driver induction lecture which the Applicant has initiated at other similar sites and considers a crucial tool for ensuring that all drivers are fully aware of the rules and expectations regarding safety, adherence to the haul route, speed limits, and courteous behaviour towards other road users.	Operation



Mitigation No.	EIA Section Reference	Description of Design Measures and Mitigation Measures/Commitments	Stage
19.	14.12.2.4	Driver Induction Information The induction lecture will set clear expectations for drivers, reinforce the importance of safety, compliance, and courtesy, and ensure that drivers are aware of the operational and legal requirements associated with the new development and haul route in particular. By establishing these guidelines early, it helps create a safe, efficient, and respectful environment for both drivers and other road users.	Operation
20.	14.12.2.4	Overview of Facility Operations Brief drivers on the purpose of the development, materials being imported, and materials being exported. Highlighting in both cases the procedure for processing both and the procedures for handling of materials and preparation of vehicles including cleaning, sheeting etc.	Operation
21.	14.12.2.4	Haul Route Overview Provide detailed information about the designated haul route, including: • Identify specific roads and lanes to be used • Identify any restricted areas or routes to avoid • Locations of entry and exit points to and from the development. • Identify the specified internal routes • Supply each driver with maps of the haul route and highlight the key landmarks, turnings, and any signage to follow. • Highlight the risks of damage to public roads not designed for HGVs. • Make clear the relationship with local community.	Operation
22.	14.12.2.4	Importance of Dedicated Haul Route: • Explain why the dedicated route has been established, such as protecting local infrastructure, and ensuring road safety. • Emphasise that deviation from the designated haul route will not be tolerated and could lead to disciplinary action, as well as legal and safety consequences. • Highlight the risks of damage to public roads not designed for HGVs. • Make clear the relationship with local community.	Operation



Mitigation No.	EIA Section Reference	Description of Design Measures and Mitigation Measures/Commitments	Stage
23.	14.12.2.4	Speed Limits on Haul Route Clearly state the speed limits along various sections of the haul route, emphasising the need for strict compliance. - Differentiate between speed limits within the application site, public roads, and sensitive areas like near schools or residential zones. - Stress the importance of obeying speed limits for safety, vehicle control, and preventing wear and tear on local roads. - Outline the consequences of speeding, including the use of speed monitoring systems (speed cameras), and the penalties for violations.	Operation
24.	14.12.2.4	Driver Behaviour and Courtesy - Reinforce the importance of being courteous to other road users, particularly along the haul route. - Encourage drivers to be mindful of smaller vehicles, cyclists, and pedestrians that may use parts of the haul route. - Employ best practices for courteous driving by maintaining safe following distances, particularly in traffic or around vulnerable road users. - Avoid aggressive driving behaviours, like tailgating or overtaking in dangerous conditions. - Always signal intentions early and avoid abrupt manoeuvres. - Give way to emergency vehicles and local traffic where appropriate.	Operation
25.	14.12.2.4	Personal Safety Emphasize the importance of safety protocols within the development, including the use of high-visibility clothing, hard hats, and other required personal protective equipment (PPE).	Operation
26.	14.12.2.4	Vehicle Safety Checks Stress the need for daily vehicle inspections (tires, brakes, lights, mirrors, and fluid levels) before starting the haul, to ensure vehicle safety and compliance with regulations.	Operation
27.	14.12.2.4	Load Safety Ensure drivers understand how to secure their loads properly to prevent accidents, especially during transport on public roads.	Operation



Mitigation No.	EIA Section Reference	Description of Design Measures and Mitigation Measures/Commitments	Stage
28.	14.12.2.4	Minimising Environmental Impact Remind drivers to be aware of the environmental implications of their work, such as reducing dust, preventing fuel spills, and minimizing noise pollution.	Operation
29.	14.12.2.4	Waste Disposal Instruct drivers on proper waste disposal practices at the proposed plant and along the haul route, ensuring that no litter or waste material is discarded improperly.	Operation
30.	14.12.2.4	Information Reporting Procedures: - Inform drivers of the procedures to follow in case of accidents or breakdowns, both within Blarney Business Park and along the haul route. - Provide contact information for emergency services, roadside assistance, and plant management. - Encourage the reporting of near misses and unsafe conditions to help identify and mitigate potential risks.	Operation
31.	14.12.2.4	Legal Compliance and Licensing - Reaffirm that drivers must have the appropriate Heavy Goods Vehicle (HGV) licenses and certifications to operate. - Emphasize that all drivers are expected to comply with local and national road traffic laws at all times. - Remind drivers of the legal requirements for maintaining tachograph records and adhering to limits on driving hours and rest periods.	Operation
32.	14.12.2.5	Proposed Road Maintenance The developer will maintain the adjoining public road in a clean state, free from mud and debris caused by haulage associated with the site.	Operation



19.11 Archaeological, Architectural and Cultural Heritage

No mitigation measures were defined for Archaeological, Architectural and Cultural Heritage due to a lack of potential for effects to these environmental components.

19.12 Landscape and Visual Impact

Mitigation No.	EIA Section Reference	Description of Design Measures and Mitigation Measures/Commitments	Stage
1.	16.6	Fastacting roller doors will be used to prevent glimpsed views into the building from locations to the south of the site.	Operation
2.	16.6	A Waste Storage Plan and a Housekeeping Procedure will be in place and strictly adhered to prevent any temporary storage or unloading of waste outdoors.	Operation
3.	16.6	The new stack that will be installed atop the roof of the existing building will be designed in accordance with Best Available Techniques. This will result in optimised plume dispersion and will minimize visibility of the plume.	Operation



19.13 Material Assets – Waste and Utilities

Mitigation No.	EIA Section Reference	Description of Design Measures and Mitigation Measures/Commitments	Stage
1.	17.6	A Resource and Waste Management Plan (RWMP) will be implemented during construction to promote waste prevention, reuse and recycling, in line with 'Waste Hierarchy' principles, and to ensure that the management of waste arising during construction is undertaken in accordance with legal and policy framework for construction waste in Ireland.	Construction
2.	17.6	A Construction Environmental Management Plan (CEMP) will be implemented during construction. This plan will define measures for carrying out construction in a manner that does not result in inadvertent or accidental impacts on material assets. Safety in design and construction will be adopted and implemented under this CEMP to prevent such impacts.	Construction
3.	17.6	Wastewater will be discharged to the foul sewer mains in accordance with Uisce Eireann and EPA requirements defined under the Industrial Emissions licence for the facility. Emission Limit values for wastewater discharges will be prescribed and ongoing wastewater monitoring will be carried out.	Operation
4.	17.6	Wastes generated on-site during facility operations will be managed in accordance with circular economy principles and as 'high up' the Waste Hierarchy defined under in the Waste Framework Directive (2008/98/EC) as possible.	Operation



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