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Our Ref: 10243-L-01-009

13 July 2021

Mr Jim Johnson
Inspector
Environmental Protection Agency
P.O. Box 3000
Johnstown Castle Estate
Johnstown
Co. Wexford

RE: Dublin City Council Ballymun Recycling Centre Waste Licence Application (Reg. No. W0303-01) – Further Information Request

Dear Mr Johnson,

Further to the Request for Information (RFI) received on 08 December 2020 in respect of the above referred Waste Licence Application, please see below and attached response.

The proposed maximum waste intake at the Ballymun Recycling Centre has been revised from 5,000 tonnes per annum (TPA) to 3,000 TPA. Accordingly, the following documents submitted with the Application have been updated and are attached to this correspondence:

- Attachment-1-2-Non-Technical Summary
- Attachment-4-3-4-R and D Activity Capacity Calcs
- Attachment-4-3-6-Maximum Waste Accepted Calcs
- Attachment-4-8-1-Operational Report

No amendments to drawings submitted with the Application are required.

As per the RFI, we have sought clarification from the planning authority (Fingal County Council) in respect of planning permission for the facility. This confirmation was provided to the Agency under a separate cover (Letter Ref. 10243-L-01-008 dated 21 June 2021) and uploaded on the EDEN portal. This letter from the planning authority confirms that the current planning permission (Pl. Reg. F17A/0686) is valid in respect of the maximum waste quantity for the development as set out.

A supporting document entitled *Update on Environmental Considerations* was also provided in our letter of 21 June 2021 and has not been included again in this submission. The *Update on Environmental Considerations* document should be read alongside the *Environmental Considerations Report-Nov 17* submitted with the original Application.

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In addition to the above, the following updated details are provided for the 'Primary Contact for Correspondence – Post Determination' as Ms. Fionnghuala Ryan will no longer be the primary contact:

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We trust the above and attached is in order and look forward to the Agency's determination on this application.

If there are any questions on the above, please do not hesitate to contact me.

Yours sincerely,



Robert Hunt
Senior Project Manager
For and on behalf of TOBIN Consulting Engineers
robert.hunt@tobin.ie

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Encl: Attachment-1-2-Non-Technical Summary
Attachment-4-3-4-R and D Activity Capacity Calcs
Attachment-4-3-6-Maximum Waste Accepted Calcs
Attachment-4-8-1-Operational Report



Attachment-1-2-Non-Technical Summary

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Comhairle Cathrach
Bhaile Átha Cliath
Dublin City Council

Ballymun Recycling Centre
St. Margaret's Road, Ballymun, Dublin 11
Waste Licence Application

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Non-Technical Summary

Prepared by

Tobin Consulting Engineers

Non-Technical Summary

PROJECT: **Ballymun Recycling Centre**
Waste Licence Application

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DOCUMENT AMENDMENT RECORD

Client:	Dublin City Council
Project:	Ballymun Recycling Centre – Waste Licence Application
Title:	Non-Technical Summary

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PROJECT NUMBER: 10243				DOCUMENT REF: 10243-R-01-001			
B	Final	MO'S	28/06/21	RH	06/07/21	RH	06/07/21
A	Final	RH	03/04/19	ST	03/04/19	RH	03/04/19
Revision	Description & Rationale	Originated	Date	Checked	Date	Authorised	Date
TOBIN Consulting Engineers							

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FIGURES

FIGURES

Figure 1.1: Ballymun Recycling Centre (extract from Site Plan) (Waste Licence Facility at NCOD outlined in orange)..... 1

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via the northern access to St. Margaret's Road. Public access to the civic amenity site will be via Carton Way only to the south-west.

1.2 FACILITY DETAILS

1.2.1 Class of Activity

The classes of activity being applied for are specified in the Third and Fourth Schedules of the Waste Management Acts 1996 to 2011, as follows:

The principal activity to be carried out on the site is:

Class R13 (4th Schedule): Storage of waste pending any of the operations numbered R1 to R12 (excluding temporary storage (being preliminary storage according to the definition of 'collection' in section 5(1)), pending collection, on the site where the waste is produced)

The following classes of activity are also applied for:

Class D13 (3rd Schedule): Blending or mixing prior to submission to any of the operations numbered D1 to D12 (if there is not other D code appropriate, this can include preliminary operations prior to disposal including pre-processing such as, amongst others, sorting, crushing, compacting, pelletising, drying, shredding, conditioning or separating prior to submission to any of the operations numbered D1 to D12).

Class D14 (3rd Schedule): Repackaging prior to submission to any of the operations numbered D1 to D13.

Class D15 (3rd Schedule): Storage pending any of the operations numbered D1 to D14 (excluding temporary storage (being preliminary storage according to the definition of 'collection' in section 5(1)), pending collection, on the site where the waste is produced).

Class R03 (4th Schedule): Recycling/reclamation of organic substances which are not used as solvents (including composting and other biological transformation processes), which includes gasification and pyrolysis using the components as chemicals.

Class R04 (4th Schedule): Recycling/reclamation of metals and metal compounds.

Class R05 (4th Schedule): Recycling/reclamation of other inorganic materials, which includes soil cleaning resulting in recovery of the soil and recycling of inorganic construction materials.

Class R12 (4th Schedule): Exchange of waste for submission to any of the operations numbered R 1 to R 11 (if there is no other R code appropriate, this can include preliminary operations prior to recovery including pre-processing such as, amongst others, dismantling, sorting, crushing,

compacting, pelletising, drying, shredding, conditioning, repackaging, separating, blending or mixing prior to submission to any of the operations numbered R1 to R11).

1.2.2 Best Available Techniques (BAT)

The BAT Guidance Note *Waste Sector (Waste Transfer and Materials Recovery)* (Dec 2011) has been followed in the preparation of this Waste Licence application.

1.2.3 COMAH Regulations

The *EC (Control of Major Accident Hazards involving Dangerous Substances) Regulations 2006* do not apply to the NCOD facility.

2 DESCRIPTION OF SITE OPERATIONS

The facility will operate in a similar manner to the existing Northstrand and Ringsend Recycling Centres which are currently managed and operated by Greenstar on behalf of DCC. Both of these sites are authorised under Certificates of Registration (COR); namely R00330-05 (Northstrand) and R02651-01 (Ringsend).

Household waste only will be accepted at the facility and no commercial waste will be accepted. Large commercial vans carrying waste will not be accepted into the site.

The following waste types are proposed for acceptance and include both non-hazardous and hazardous waste materials:

- Plastic
- Cardboard
- Glass
- Tin cans (food and drinks cans)
- Other dry recyclables (including paper, newspapers, magazines)
- Green Waste (such as grass, hedge trimmings, light branches, leaves)
- Household DIY rubble
- Steel (including gas cylinders)
- Wood
- Bulky Waste (such as furniture, bicycles)
- Food Waste
- Waste Electronic and Electrical Equipment (WEEE) (including white goods, IT equipment, mobile phones, household electricals)
- Batteries
- Clothes
- Oils (cooking oil, engine oil, hydraulic oil etc.)
- Aerosols, Fire Extinguishers, Pesticides, Herbicides

- Paints (including solvents for DIY works)
- Light Tubes

Customers will bring the above waste types to the facility and access the site via the Carton Way entrance. They will be directed into the site via a one-way traffic flow system and parking spaces will be provided adjacent to the waste storage receptacles.

An indicative layout of the waste storage containers at the facility is shown on the Site Plan. The waste storage receptacles will include a mixture of open and enclosed skips of varying sizes with and without compactors as appropriate to the waste type and quantities of waste being received. Drums and bins will be used for certain waste types as listed above and any liquid wastes will be contained in approved sealed containers. Additionally, glass and tin can banks will be used and there will be a dedicated recycling store building for clothes/textiles and batteries.

Parking bays are allocated for members of the public to park while distributing waste to the appropriate receptacles. Signage will be erected at each of the receptacles to identify the waste types permitted to be deposited. A facility office will also be provided for welfare facilities and administration activities. Staff will be positioned here to inspect and take payment, as appropriate, for incoming waste materials.

Facility staff will arrange and coordinate the collection of the various segregated wastes on a regular basis. Operational vehicles, including light and heavy goods vehicles (LGVs and HGVs) are only permitted to enter and exit the civic amenity site via the gated access to the main depot. Vehicles will then be able to exit the main depot to the north at the signal-controlled junction onto St. Margaret's Road.

2.1 WASTE ACCEPTED AT THE FACILITY

The annual quantities of waste to be accepted and transferred off-site from the Ballymun Recycling Centre are anticipated to be similar to the existing recycling centre at Ringsend in Dublin 4.

It is anticipated that the new Ballymun Recycling Centre will handle up to 3,000 tonnes of waste per annum.

Based on the proposed receptacles and waste types for acceptance at the Ballymun Recycling Centre, it is anticipated that a maximum of 40 tonnes of hazardous waste will be temporarily stored at the facility at any one time.

3 SITE INFRASTRUCTURE AND OPERATIONS

3.1 FOUL DRAINAGE

An existing 750mm diameter foul sewer pipe runs along St. Margaret's Road to the east of the NCOD site. The foul drainage from the civic amenity site will discharge to this existing 750mm diameter sewer. A pre-connection enquiry was submitted to Irish Water on 31 July 2017 along with preliminary calculations for effluent discharge from the overall site (including the civic amenity centre) and the response from Irish

Water stated that the proposed connection can be facilitated. This correspondence is included in the Engineering Services Report.

The only effluent discharged from the civic amenity site will be domestic effluent generated by site staff in the facility office. It is anticipated there will be a maximum of five full-time staff on-site at the facility typically generating 60 litres/person/day ¹.

3.2 SURFACE WATER DRAINAGE

Irish Water records indicate a 900mm diameter surface water pipe east of the NCOD site on St. Margaret's Road. The surface water drainage system for the overall NCOD site has been designed in accordance with the Greater Dublin Strategic Drainage Strategy (GSDSDS) and the Greater Dublin Regional Code of Practice for Drainage Works. It will ensure that surface water discharge from the site is limited to the allowable greenfield runoff rate. All surface water to the attenuation system will discharge to the existing surface water network via a fuel/oil separators and vortex type flow control chambers.

The storm water drainage has been designed to cater for surface water from hard surfaces in the site including roadways, footpaths, and buildings.

3.3 WATER SUPPLY

It is proposed to connect a new 250mm diameter watermain to the existing 300mm diameter watermain on the northern boundary of the NCOD site along St. Margaret's Road. This new watermain is to include boundary boxes with integral stopcocks at the connections. Provision is also to be made for the installation of bulk flow meter chambers.

Water consumption on the civic amenity site will be from site staff and water used for wash-down and cleaning.

3.4 HOURS OF OPERATIONS

It is anticipated that the Ballymun Recycling Centre opening hours will be similar to the existing Ringsend Recycling Facility, however this will be determined in agreement with the private contractor. Therefore, authorisation is being sought to accept waste from members of the public at the facility within the following opening hours:

- 09:00 – 17:00 (Monday to Wednesday)
- 09:00 – 18:00 (Thursday to Friday)
- 09:00 – 16:00 (Saturdays and Bank Holidays)

It is not proposed to provide public access to the civic amenity site on Sundays. The above opening times will provide suitable opportunity for the public to avail of the facility outside of normal working hours.

¹ EPA, *Wastewater Treatment Manuals – Treatment Systems for Small Communities, Business, Leisure Centres and Hotels* (1999)

3.5 WASTE ACCEPTANCE

It is anticipated that the vast majority of the public will bring waste to the facility using cars and small vans. Facility staff will be in position at the entrance gate to inspect incoming waste and take payment, as appropriate.

Commercial waste will not be accepted at the facility. A Waste Acceptance Procedure is included as Attachment-4-3-5.

3.6 QUARANTINE

Any inappropriate incoming waste will be refused, and the customer requested to remove the unsuitable waste from the facility. A quarantine area will be identified for temporary storage of unsuitable waste.

3.7 WASTE COLLECTION

All waste materials collected from the facility and transferred off-site for reuse, recycling, recovery or disposal will be transferred through the NCOD depot site and will exit the site onto St. Margaret's Road opposite the entrance to IKEA. This signal-controlled junction is permitted for HGV use in accordance with the relevant planning permission. All waste collection vehicles removing waste from the site will be required to hold a valid waste collection permit in accordance with the requirements of the *Waste Management (Collection Permit) Regulations 2007* as amended.

3.8 WASTES GENERATED AND STORED ON SITE

On account of the nature of waste activities which will be carried out at the civic amenity facility, there will be minimal waste generated. Any wastes generated in the facility office will be segregated and transferred to the appropriate waste containers at the facility.

3.9 EMISSIONS

3.9.1 Emissions to Sewer

The only emissions to sewer from the civic amenity facility will be domestic effluent from the site office.

3.9.2 Noise Emissions

Noise emissions associated with the facility will include traffic entering and exiting the site as well as the operation of plant and waste compaction equipment.

4 DESCRIPTION OF THE EXISTING SITE CONDITIONS

A Site Condition Report has been prepared for the facility and is included with the Licence Application.

4.1 SOIL

The Geological Survey of Ireland (GSI) Geology Maps illustrate a complex geology in the region. The site is underlain by the Tober Colleen Formation and Lucan Formation. The bedrock is gently folded and dips towards the north-east.

A site investigation programme was undertaken at the NCOD site to acquire site-specific data on the nature and characteristics of the underlying ground conditions and identify any contamination that may exist. Site investigations, which were conducted between 7 June and 7 July 2017, included:

- Six light cable percussion boreholes;
- Ten boreholes by dynamic (windowless) sampling methods;
- A standpipe installation in one of the boreholes; and
- 15 no. trial pits.

Environmental samples were taken at depths of 0.5m and 1.5m bgl in each trial pit with an additional sample taken at 2.0m bgl in Trial Pits TP12 and TP15. Disturbed (small jar and bulk bag) samples were taken at standard depth intervals and at changes in strata. No significant water inflows were encountered during excavation.

A summary of the subsoil encountered in the exploratory holes is presented below, in approximate stratigraphic order:

- Topsoil: encountered typically in 150 – 300mm thickness in most exploratory holes.
- Made Ground (sub-base material): 50 – 200mm of aggregate fill (sandy silty gravel) present in Borehole BH05 from ground level and Trial Pit TP09 beneath 200mm of topsoil.
- Made Ground (fill): reworked clay fill with localised pockets of debris was encountered in the majority of boreholes and trial pits across the site. Typically, sandy gravelly clay with fragments of brick, concrete, ceramic, glass, plastic and ash extending to a depth of 0.50 – 3.45m bgl.
- Glacial Till: sandy gravelly clay, frequently with low cobble and occasional boulder content, typically firm or stiff in upper horizons, becoming very stiff with increasing depth.

Waste acceptance criteria (WAC) testing and asbestos screening was carried out on 20 no. soil samples. No asbestos was encountered in any sample. No hydrocarbon contamination was encountered on the site. Mineral oil concentrations reported are less than 500 mg/kg.

Testing was undertaken to assess the condition of the soil on-site and classify the material for removal off-site for recovery or disposal. 17 no. samples were classified as Inert and two samples (BH10 and TP1) were classified as Non-Hazardous in accordance with the Landfill Directive WAC. TP1 is located within the civic amenity site boundary.

4.2 GROUNDWATER & SURFACE WATER

The topography of the NCOD site is gently sloping towards the east and is surrounded by existing industrial premises, infrastructure and future development sites. The site is located in the Liffey and Dublin Bay Catchment (Hydrometric Area 09) within the Eastern River Basin District (ERBD).

The site is located in the Santry River (EPA Ref: 09-1502) catchment. The Santry River flows 0.5km to the north of the site. All drains in the vicinity of the NCOD site are culverted. The Santry River discharges to Dublin harbour via Raheny Strand approximately 8km south-east of the site.

As there are no surface waterbodies located adjacent to the site, there was no surface water quality data obtained during site investigations. In accordance with the Water Framework Directive (WFD) classification status (2010 – 2015), the Santry River is determined as being of *Poor* quality and *At Risk* of not achieving the WFD objectives.

The most recent biological quality sample obtained by the Agency on the Santry River in 2016 at Clonsaugh Road Bridge (Station ID: RS09S010300) reported the river quality as *Moderately Polluted* (Q-Value = 3). This monitoring location is approx. 3.4km east of the NCOD site.

The groundwater vulnerability at the site is defined by the GSI as *Low* which indicates a typical depth of 10m of low permeability till above the bedrock. There is no drinking water source protection zone delineated in the vicinity of the site.

4.3 FLOOD RISK ASSESSMENT

Hydraulic modelling of the Santry River by TOBIN in November 2017 estimated the 100 and 1000-year Mid-range future scenario (MRFS) flood levels adjacent to the site as 57.73m above ordnance datum (AOD) and 57.81m AOD, respectively.

The NCOD site has existing an existing ground level ranging from 71.4m OD to 64.2m OD and therefore, at a minimum, is 6.4m above the estimated 1000-year MRFS flood level; i.e. the site is located in Flood Zone C. According the Office of Public Works' (OPW's) Planning System and Flood Risk Management (PSFRM) guidelines ², commercial developments (such as the NCOD and associated civic amenity site) are appropriate in this flood zone.

Based on a review of the Preliminary Flood Risk Assessment (PFRA) study ³ and surveyed site levels, it is predicted that pluvial flooding will not impact the NCOD site. It is predicted that flood risk to the development will be minimal.

4.4 AIR QUALITY

As part of the implementation of the *Air Quality Standards Regulations 2002 (S.I. No. 271 of 2002)*, four air quality zones have been defined in Ireland for air quality management and assessment purposes. Dublin is defined as Zone A and Cork as Zone B. Zone C is composed of 23 no. towns with a population of greater than 15,000. The remainder of the country, which represents rural Ireland but also includes all towns with a population of less than 15,000, is defined as Zone D. The NCOD site is located within Zone A.

² Office of Public Works (OPW), *Planning System and Flood Risk Management: Guidelines for Planning Authorities* (2009)

³ OPW, *Preliminary Flood Risk Assessment* (2012)

In terms of the existing air quality environment, data available from similar environments indicates that the levels of NO₂, CO, PM₁₀, PM_{2.5} and benzene are well within the National and European Union (EU) ambient air quality standards.

4.5 NOISE

The main source of noise in the existing environment at the NCOD site is road traffic from the R104, St. Margaret's Road, the R108 to the east and the M50 to the north.

A baseline noise survey was undertaken in the vicinity of the site as part of the planning submission. Noise levels were monitored at one location to the north of the site to obtain noise levels representative of the site and the surrounding environment. The monitoring position was located at roof level of the adjacent IKEA retail store overlooking the site of the NCOD site (N1).

Noise levels at this position were dominated by road traffic along St Margaret's Road, the M50 Motorway and the R108 Road.

5 BEST AVAILABLE TECHNIQUES

The measures and techniques outlined in the EPA's *Final Draft BAT Guidance Note on Best Available Techniques for the Waste Sector: Waste Transfer and Materials Recovery* have been considered in the design of the Ballymun Recycling Centre. Such measures include:

Emissions to Air:

Regular sweeping and cleaning of the facility will be carried out by staff to reduce potential for dust arising.

Best practice waste handling procedures, regular removal of waste from site and stringent facility management will limit the potential for odour emissions.

Emissions to Water:

Surface water run-off from hard standing areas will discharge into a storm sewer system via fuel/oil interceptors to eliminate the requirement for discharge to surface water bodies. Surface water run-off will be attenuated in accordance with SuDS principals to control discharge into the storm sewer network.

Emissions to Sewer:

The only emissions to sewer from the facility will be domestic effluent from the site office.

Noise & Vibration:

Equipment operations and vehicle access points have been located away from sensitive residential receptors, where possible, to minimise noise impacts on the local population. Operational hours are also restricted to minimise impact on the local population.

6 CLOSURE AND CESSATION OF ACTIVITIES

In the event of permanent cessation of activities at the facility, no more waste materials will be accepted to the facility and all waste stored within skips and containers will be removed from site by authorised waste contractors. The surface water and foul water drainage network will be cleaned, and residues removed from drainage channels, screens and interceptors. Upon completion of the above activities, there will be no materials remaining at the facility with the potential for environmental pollution.

7 ENVIRONMENTAL QUALITY

DCC operations are carried out in accordance with local and national policy. Environmental management initiatives outlined by relevant Government Departments and State Bodies are incorporated into DCC operations and issued to the relevant operations divisions which will include the Ballymun Recycling Centre.

8 TRANSBOUNDARY EFFECTS

The proposed Ballymun Recycling Centre will not have any transboundary effects.

9 ALTERNATIVES

A site selection exercise was carried out by Dublin City Council which identified the Ballymun site as the most suitable location for a new operations depot. Accordingly, the co-location of a new civic amenity facility in proximity to the new operations depot provides for maximum efficiency and control of the daily operations.

DCC have operated a number of civic amenity facilities across the city and the experience and knowledge of these operations have been aggregated in the design and layout of the new facility. As stated in the application, it is intended that prior to commencement of operations, the waste licence for the Ballymun Recycling Centre will be transferred to a private operator to run the facility on behalf of DCC as is the current practice at the Northstrand and Ringsend Recycling Centres.

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Attachment-4-3-4-R and D Activity Capacity Calcs

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Attachment-4-3-4-R and D Activity Capacity Calcs

D13 - Blending or mixing prior to submission to any of the operations number D1 to D12

Table 1: D13 Capacity Calculations

Capacity		
	Tonnes/day	Details
Household Waste	10	3,000 TPA based on 52 weeks per year and 6 days per week operations.
TOTAL	10	

Based on similar civic amenity sites operated by Dublin City Council at Ringsend and Northstrand, it is estimated that the Ballymun Recycling Centre will accept approx. 3,000 tonnes of waste from the public per annum.

Typically, the Ballymun Recycling Centre will operate 6 days per week and for 52 weeks per year. This equates to a waste intake of up to 10 tonnes per day.

It is envisaged that the majority of household waste accepted at the facility will be suitable for off-site reuse, recycling or recovery. However, in the event that appropriate outlets are not available, some segregated materials may be removed off-site for disposal.

D14 - Repackaging prior to submission to any of the operations number D1 to D13

Table 2: D14 Capacity Calculations

Capacity		
	tonnes/day	Details
Household Waste	10	3,000 TPA based on 52 weeks per year and 6 days per week operations.
TOTAL	10	

Calculations are as per above. Permission to carry out D14 activity is sought to allow for repackaging of incoming hazardous (including household and agrochemicals) and non-hazardous wastes into suitable containers for transport; packaging and securing of WEEE for transport and compaction of cardboard, plastics, general waste etc.

As above, it is envisaged that the majority of household waste accepted at the facility will be suitable for off-site reuse, recycling or recovery. However, in the event that appropriate outlets are not available, some segregated materials may be removed off-site for disposal.

D15 – Storage pending any of the operations numbered D1 to D14

Table 3: D15 Capacity Calculations

Capacity		
	tonnes	Details
Household Waste	340	Maximum storage capacity based on proposed containers
TOTAL	340	

Permission to carry out D15 activity is sought to allow for temporary storage of incoming waste pending sufficient quantities to arrange collection and removal from site as per typical civic amenity site activities. As set out in Attachment-4-3-1-Storage of Waste and Other Materials, the maximum quantity of waste proposed for storage on site at any one time will be 340 tonnes.

Temporary storage of most materials will typically be for less than seven days but for less frequently collected waste types may be longer.

As previously, it is envisaged that the majority of household waste accepted at the facility will be suitable for off-site reuse, recycling or recovery. However, in the event that appropriate outlets are not available, some segregated materials may be removed off-site for disposal.

R03 – Recycling/reclamation of organic substances which are not used as solvents (including composting and other biological transformation processes), which includes gasification and pyrolysis using the components as chemicals

Table 4: R03 Capacity Calculations

Capacity		
	tonnes/day	Details
Household Waste	10	3,000 TPA based on 52 weeks per year and 6 days per week operations.
TOTAL	10	

In accordance with Policy Action C.1.2 of the Eastern-Midlands Region Waste Management Plan 2015 – 2021, “Review and amend (where appropriate) existing and/or condition the award of new local authority CA site contracts to facilitate the segregation of materials for reuse/preparing for reuse by social enterprises and similar organisations (WEEE will be considered subject to discussion and agreement with the compliance schemes).”

Approval is sought to permit, insofar as is possible, preparing for reuse of suitable organic waste materials (such as textiles, paper, cardboard, timber etc.) accepted at the facility. Such materials may be suitable for preparing for reuse in accordance with activities carried out at The Rediscovery Centre in Ballymun, Co. Dublin.

R04 – Recycling/reclamation of metals and metal compounds

Table 5: R04 Capacity Calculations

Capacity		
	tonnes/day	Details
Household Waste	10	3,000 TPA based on 52 weeks per year and 6 days per week operations.
TOTAL	10	

As above, approval is sought to permit, insofar as is possible, preparing for reuse of suitable metal waste materials (such as bicycles, toys etc.) accepted at the facility. Such materials may be suitable

for preparing for reuse in accordance with activities carried out at The Rediscovery Centre in Ballymun, Co. Dublin.

R05 - Inorganic substance recycling/reclamation

Table 6: R05 Capacity Calculations

Capacity		
	tonnes/day	Details
Household Waste	10	3,000 TPA based on 52 weeks per year and 6 days per week operations.
TOTAL	10	

As above, approval is sought to permit, insofar as is possible, preparing for reuse of suitable inorganic waste materials (such as toys, electronics, batteries etc.) accepted at the facility. Such materials may be suitable for preparing for reuse in accordance with activities carried out at The Rediscovery Centre in Ballymun, Co. Dublin.

R12 – Exchange of waste for submission to any of the operations numbered R 1 to R 11

Table 7: R12 Capacity Calculations

Capacity		
	tonnes/day	Details
Household Waste	10	3,000 TPA based on 52 weeks per year and 6 days per week operations.
TOTAL	10	

Approval is sought to permit the exchange of waste (such as basic sorting activities and compaction) received at the facility.

R13 – Storage of waste pending any of the operations numbered R1 to R12**Table 8: R13 Capacity Calculations**

Capacity		
	tonnes	Details
Household Waste	340	Maximum storage capacity based on proposed containers
TOTAL	340	

This is the Principal Activity.

Permission to carry out R13 activity is sought to allow for temporary storage of incoming waste pending sufficient quantities to arrange collection and removal from site as per typical civic amenity site activities. As set out in Attachment-4-3-1-Storage of Waste and Other Materials, the maximum quantity of waste proposed for storage on site at any one time will be 340 tonnes.

Based on similar civic amenity sites operated by Dublin City Council at Ringsend and Northstrand, it is estimated that the Ballymun Recycling Centre will accept approx. 3,000 tonnes of waste from the public per annum.

Typically, the Ballymun Recycling Centre will operate 6 days per week and effectively for 52 weeks per year. This equates to a waste intake of up to 10 tonnes per day.

It is envisaged that the majority of household waste accepted at the facility will be suitable for off-site reuse, recycling or recovery.

Attachment-4-3-6-Maximum Waste Accepted Calcs

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Attachment-4-3-6-Maximum Waste Accepted Calculations

The tables below outline the proposed Maximum Accepted Waste Totals for the facility broken down as required in the Application Form.

Table 1: Summary of waste for acceptance at Ballymun Recycling Centre (Waste Source)

Waste Source		
	TPA	Details
Household Waste	3,000	Waste accepted from members of the public at the facility
Municipal Subtotal	3,000	
C&D Subtotal	0	
	0	
Other Subtotal	0	
TOTAL	3,000	

Table 2: Summary of waste for acceptance at Ballymun Recycling Centre (Hazardous and Non-Hazardous)

Waste Type		
	TPA	Details
Household Waste	300	Maximum hazardous waste intake based on figures from operational Ringsend facility
Hazardous Total	300	
Household Waste	2,700	Total proposed for acceptance less estimated hazardous waste quantity
Non-Hazardous Total	2,700	
TOTAL	3,000	

The actual hazardous waste intake at the facility is likely to be much less than 300 TPA. Approval is sought for an overall maximum waste intake of 3,000 TPA, such that the non-hazardous waste intake may exceed 2,700 TPA provided that the overall maximum is not exceeded.

Attachment-4-8-1-Operational Report

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Comhairle Cathrach
Bhaile Átha Cliath
Dublin City Council

Ballymun Recycling Centre
St. Margaret's Road, Ballymun, Dublin 11
Waste Licence Application

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Operational Report

Prepared by

Tobin Consulting Engineers

Operational Report

PROJECT: **Ballymun Recycling Centre**
Waste Licence Application

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DOCUMENT AMENDMENT RECORD

Client:	Dublin City Council
Project:	Ballymun Recycling Centre – Waste Licence Application
Title:	Operational Report

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PROJECT NUMBER: 10243				DOCUMENT REF: 10243-R-01-002			
B	Final	MO'S	28/06/21	RH	06/07/21	RH	06/07/21
A	Final	RH	09/04/19	ST	09/04/19	RH	09/04/19
D01	Draft Issue	RH	29/01/19	ST	29/01/19	RH	29/01/19
Revision	Description & Rationale	Originated	Date	Checked	Date	Authorised	Date
TOBIN Consulting Engineers							

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Appendix A	Drawings
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1 INTRODUCTION

Dublin City Council (DCC) is developing a new North City Operations Depot (NCOD) at St. Margaret's Road, Ballymun, Dublin 11 to consolidate its operations for the north city area, replacing a number of existing depots. The NCOD site will include the provision of a new public civic amenity site for the collection, recycling and transfer of domestic waste. This facility is referred to as the Ballymun Recycling Centre.

DCC is applying to the Environmental Protection Agency (EPA) (herein referred to as the Agency) for a Waste Licence for the operation of the civic amenity site. The activities proposed at the facility are outlined herein. This Operational Report has been prepared for submission with the Waste Licence application and in accordance with the guidance outlined in the *Licence Application Form Guidance* published by the Agency in 2018¹.

1.1 SITE DESCRIPTION

The NCOD was granted planning permission by Fingal County Council (FCC) (Reg. Ref. F17A/0686) in January 2018 and construction of the development, including the civic amenity site, is scheduled for commencement in mid-2019.

The civic amenity site comprises an area of 0.45 hectares (ha) at the western wide of the overall NCOD site. The NCOD site is approx. 5.03 ha in area. The layout of the civic amenity site in the context of the NCOD site is shown in Figure 1.1. The redline boundary signifies the Waste Licence boundary for the civic amenity site and the blue line signifies the DCC site ownership boundary.

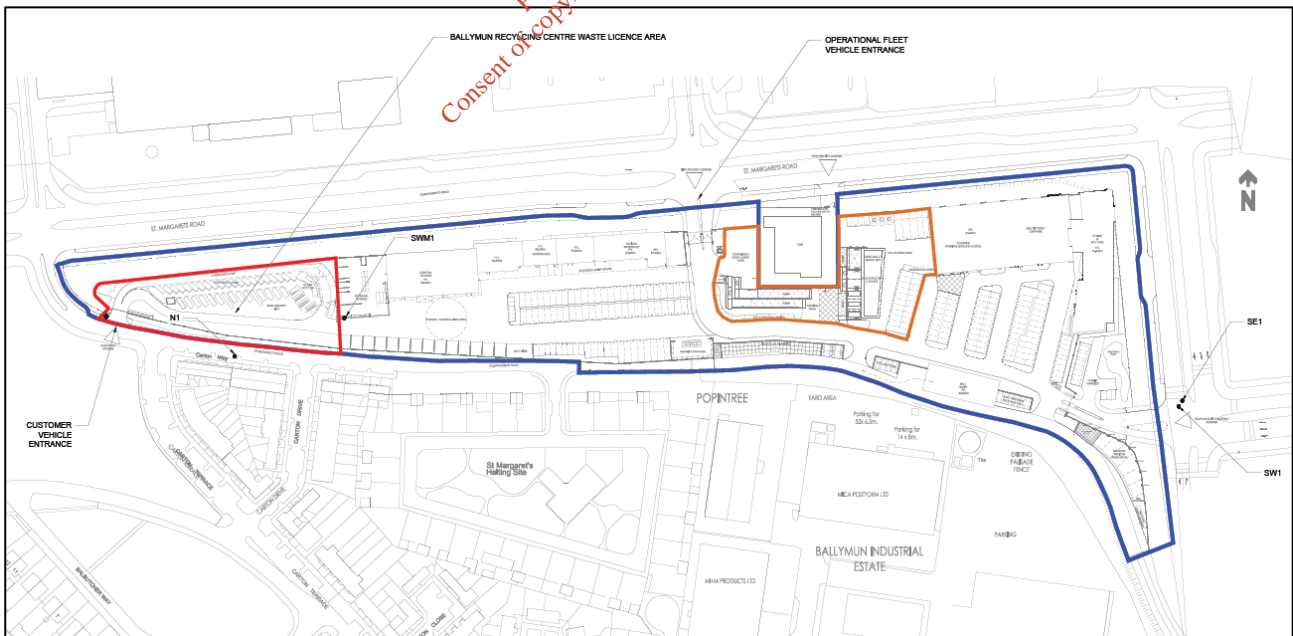


Figure 1.1: Ballymun Recycling Centre (extract from Site Plan) (Waste Licence Facility at NCOD outlined in orange)

¹ EPA, *Licence Application Form Guidance – Industrial Emissions (IE), Integrated Pollution Control and Waste Version 2* (March 2018)

While the civic amenity site is located within the overall ownership boundary of DCC, the facility will be segregated from the rest of the NCOD site by means of a gated access at the south-east corner of the facility. Only operational traffic will use this gated access point, primarily for the removal of waste materials from the civic amenity site by HGVs. Operational vehicles are only permitted to access the NCOD site via the northern access to St. Margaret's Road. Public access to the civic amenity site will be via Carton Way only to the south-west. Further details on the operational traffic movements are provided in Sections 4.5 and 4.8.

It is intended, once the Waste Licence for the Ballymun Recycling Centre is granted, that the Licence will be transferred from DCC to a private contractor to run the facility on behalf of DCC. Following pre-application meetings with the Agency, it has been determined that the private contractor will become the Licensee for the facility and will assume the responsibilities for compliance with the Waste Licence in accordance with the *Waste Management Act 1996* as amended and the *Environmental Protection Agency Act 1992* as amended. In accordance with the requirements of the above Acts, the proposed private contractor must be deemed to be a fit and proper person and DCC will run a tender competition for the procurement of services which will require tenderers to show compliance with this requirement.

The application for transfer of the Waste Licence will be made in due course in accordance with the EPA guidance ². The *Proposed Transferee Statement* and *Joint Declaration* forms will be completed as required and submitted to the Agency. DCC will engage with the Agency in advance of submitting an application for transfer of the Waste Licence.

1.2 NORTH CITY OPERATIONS DEPOT

In addition to the Waste Licence for the Ballymun Recycling Centre to which this application relates, DCC also intend to submit a Waste Licence application to the Agency for the management and handling of waste materials as part of the DCC daily operations. This separate waste licensed area will be contained within the main depot site area adjacent to the existing ESB substation and will incorporate a waste management collection area for use in conjunction with maintenance activities. The area will include waste compactors and gulley waste deposit areas for the reception and handling of waste materials collected by DCC fleet vehicles during daily operations.

The details of the NCOD Waste Licence operations are presented in the Operational Report (Document Ref. 10243-R-02-002) submitted with the Waste Licence application for that facility. The proposed NCOD Waste Licence boundary will have an area of approx. 0.47 ha and is outlined in orange in Figure 1.1 above.

² EPA, *EPA Guidance for Licensees and Proposed Transferees on Licence Transfer Applications* (2017)

1.3 WASTE LICENCE REASONING

Consultation has been undertaken between the applicant and the Agency in respect of this facility as well as the adjacent NCOD Facility. Pre-application meetings were held at the Agency headquarters in October 2017 and September 2018. In addition, verbal and email correspondence has taken place.

An Article 11 Request (No. 2304) was submitted to the Agency by TOBIN in August 2017 based on the waste quantities anticipated for acceptance at the NCOD facility (including the civic amenity site). The Agency determined, based on the information provided, that the activity would require either a Waste Licence or Industrial Emissions Licence.

Subsequent to this Article 11 Request, it was determined, in light of the *Midlands Scrap Metal Company Ltd.* ([2016] IECA 64) judgement, that two authorisations should be sought for the proposed activities at the NCOD, namely; one authorisation for the handling of waste materials in accordance with DCC daily operations (i.e. this Waste Licence Application) and a separate authorisation for the proposed civic amenity site. This determination was made on the basis of DCC's intention to transfer the daily operations of the civic amenity site to a private operator in due course. Accordingly, the authorisation for the civic amenity site operations would be transferred to the private operator.

Further to the above and giving consideration to the types and quantities of waste proposed for acceptance at the NCOD Waste Facility and the Ballymun Recycling Centre, reference was made to the *Waste Management (Facility Permit and Registration) Regulations 2007*, as amended. Part I of the Third Schedule to the Regulations (listing the classes of activity subject to a Waste Facility Permit) states that:

“The carrying on by a person (other than a local authority) at a facility (other than a facility located in whole or in part in an area which is not within the functional area of a local authority) of any of the following activities, provided that –

- (a) The activity is not an activity which is carried on adjacent to, a facility at which a licensable activity is being carried out by the same legal entity.”*

In reference to the above, it was determined that both waste facilities should be submitted for Waste Licence authorisation.

2 CIVIC AMENITY SITE FACILITIES

The facility will operate in a similar manner to the existing Northstrand and Ringsend Recycling Centres which are currently managed and operated by Greenstar on behalf of DCC. Both of these sites are authorised under Certificates of Registration (COR); namely R00330-05 (Northstrand) and R02651-01 (Ringsend).

Household waste only will be accepted at the facility and no commercial waste will be accepted. Large commercial vans carrying waste will not be accepted into the site. The waste acceptance procedures outlined in Section 4.5 identify measures identifying commercial waste customers at the facility.

Household hazardous waste will be accepted and managed in accordance with the *Guidance for the Management of Household Hazardous Waste at Civic Amenity Sites* document published by the EPA and the Health and Safety Authority (HSA) ³.

The following waste types are proposed for acceptance and include both non-hazardous and hazardous waste materials:

- Plastic
- Cardboard
- Glass
- Tin cans (food and drinks cans)
- Other dry recyclables (including paper, newspapers, magazines)
- Green Waste (such as grass, hedge trimmings, light branches, leaves)
- Household DIY rubble
- Steel (including gas cylinders)
- Wood
- Bulky Waste (such as furniture, bicycles)
- Food Waste
- Waste Electronic and Electrical Equipment (WEEE) (including white goods, IT equipment, mobile phones, household electricals)
- Batteries
- Clothes
- Oils (cooking oil, engine oil, hydraulic oil etc.)
- Aerosols, Fire Extinguishers, Pesticides, Herbicides
- Paints (including solvents for DIY works)
- Light Tubes

Customers will bring the above waste types to the facility and access the site via the Carton Way entrance. They will be directed into the site via a one-way traffic flow system and parking spaces will be provided adjacent to the waste storage receptacles.

Table 2.1 outlines the waste types proposed for acceptance at the facility along with the typical storage/receptacles for each waste type.

Table 2.1: Waste Types and Typical Storage Arrangements

Waste Type	EWC Code	Typical Storage Type	Hazardous/Non-Hazardous
Plastic	20 01 39	Enclosed skip (with static compactor)	Non-Hazardous
Cardboard	20 01 01	Enclosed skip (with static compactor)	Non-Hazardous

³ EPA and HSA, *Guidance for the Management of Household Hazardous Waste at Civic Amenity Sites* (2017)

Waste Type	EWC Code	Typical Storage Type	Hazardous/Non-Hazardous
Glass (Bottle Banks)	20 01 02	Bottle banks	Non-Hazardous
Glass (Panels)	20 01 02	Open skip – 6 cyd* capacity	Non-Hazardous
Tin Cans	20 01 40	Can banks (similar to bottle banks)	Non-Hazardous
Other Dry Recyclables (Mixed)	20 03 01	Enclosed skip (with static compactor)	Non-Hazardous
Green Waste	20 02 01	Enclosed skip	Non-Hazardous
Rubble	17 01 01, 17 01 02, 17 01 03, 17 01 07, 20 03 01, 20 03 07	Open skip – 20 cyd capacity	Non-Hazardous
Steel	20 01 40	Open skip – 35 cyd capacity	Non-Hazardous
Wood	20 01 37*, 20 01 38	Open skip – 35 cyd capacity	Non-Hazardous & Hazardous
Bulky Waste	20 03 07	Open skip – 35 cyd capacity	Non-Hazardous
Food Waste	20 01 08	120 litre wheelie bin	Non-Hazardous
WEEE (Small)	16 02 13*, 16 02 14, 20 01 35*, 20 01 36	Open skip – 35 cyd capacity	Non-Hazardous & Hazardous
WEEE (Large)	16 02 13*, 16 02 14, 20 01 23*, 20 01 35*, 20 01 36	20 ft container	Non-Hazardous & Hazardous
Batteries	16 06 01*, 16 06 02*, 16 06 03*, 16 06 04, 16 06 05, 20 01 33*, 20 01 34	Recycling store building	Non-Hazardous & Hazardous
Clothes	20 01 11	Recycling store building – clothes bank	Non-Hazardous
Oils	16 01 07*, 20 01 25, 20 01 26*	500 litre bunded container for engine oils and 25 litre drums for cooking oils	Non-Hazardous & Hazardous
Aerosols, Pesticides, Herbicides	16 05 04*, 16 05 05, 20 01 14*, 20 01 15*, 20 01 19*, 20 01 29*, 20 01 30	200 litre drum	Hazardous
Paints	20 01 13*, 20 01 27*, 20 01 28	660 litre bin	Non-Hazardous & Hazardous
Light Tubes	20 01 21*	Coffin trolley	Hazardous

* cyd = cubic yard

An indicative layout of the above waste storage containers at the facility is shown on the Site Plan. The waste storage receptacles will include a mixture of open and enclosed skips of varying sizes with and without compactors as appropriate to the waste type and quantities of waste being received. Drums and bins will be used for certain waste types as listed above and any liquid wastes will be contained in approved sealed containers. Additionally, glass and tin can banks will be used and there will be a dedicated recycling store building for clothes/textiles and batteries.

Table 2.1 outlines the typical waste containers used in similar DCC facilities and may be subject to some change depending on the incoming waste quantities and the appointed private contractor preferences.

Parking bays are allocated for members of the public to park while distributing waste to the appropriate receptacles. Signage will be erected at each of the receptacles to identify the waste types permitted to be deposited. The one-way traffic system will allow customers to continue around in a loop and exit the site onto Carton Way at the same point as entry.

A facility office will also be provided for welfare facilities and administration activities. Staff will be positioned here to inspect and take payment, as appropriate, for incoming waste materials. The pricing structure for the Ballymun Recycling Centre will be determined by DCC in accordance with similar other facilities.

The appointed private contractor will arrange and coordinate collection of the various segregated wastes on a regular basis. Operational vehicles, including light and heavy goods vehicles (LGVs and HGVs) are only permitted to enter and exit the civic amenity site via the gated access to the main depot. Vehicles will then be able to exit the main depot to the north at the signal-controlled junction onto St. Margaret's Road.

3 UNIT OPERATIONS

The unit operations at the civic amenity site comprise a waste transfer station for the collection and onward transport of non-hazardous and hazardous household waste.

The civic amenity site will permit members of the public to bring household waste items to the facility and deposit the waste in suitably segregated receptacles. Some of the waste receptacles will be equipped with compactors which will be operated by the facility staff only.

On a regular basis, the facility staff will arrange for the collection of waste from the facility for onward transport and reuse, recycling, recovery or disposal, as appropriate. The appointed private contractor will identify suitably permitted or licensed sites for the off-site processing of the waste materials. All waste removed from the site will be done so by permitted waste hauliers and transferred to appropriately permitted or licensed waste facilities.

The vast majority of waste accepted to the site is expected to be suitable for recycling off-site. Food waste and green waste are likely to be transferred to off-site facilities for composting and/or anaerobic digestion.

Paints, aerosols, pesticides/herbicides and oils will be transferred to suitable facilities for recovery, where possible, or disposal. Fluorescent light tubes will also be transferred to specialist contractors for dismantling and recovery, where possible.

WEEE and bulky waste will be transferred off-site for processing to remove reusable, recyclable and recoverable components. Any non-recoverable components will be disposed of accordingly.

3.1 WASTE QUANTITIES

The typical waste storage receptacles that will be used at the facility are outlined in Table 2.1. The annual quantities of waste to be accepted and transferred off-site from the Ballymun Recycling Centre are anticipated to be similar to the existing recycling centre at Ringsend in Dublin 4.

The waste quantities accepted at the Ringsend Recycling Centre in 2015, 2016, 2017 and 2018 are presented in Table 3.1 below.

Table 3.1: Waste Accepted at Ringsend Recycling Centre 2015, 2016, 2017, 2018

Waste Type	Tonnes			
	2015	2016	2017	2018
Bulky Waste	854.82	795.81	862.56	766.60
Steel	59.80	67.76	61.82	77.42
Wood	253.58	272.24	245.02	342.37
Rubble	369.06	482.92	427.00	450.88
Cardboard	62.32	62.34	74.28	84.72
Glass	109.32	112.33	109.42	125.56
Plastic	60.28	50.48	66.98	58.00
Recyclables	162.49	205.96	158.14	178.44
Flat Glass	10.18	15.38	17.97	21.05
WEEE	204.41	195.97	192.65	221.28
Paint	142.60	135.40	69.64	77.31
Aerosols/Household Chemicals	2.16	2.52	2.11	2.89
Gas Cylinders	1.29	0.97	0.86	1.47
Green Waste	100.94	127.28	140.36	138.20
Batteries	0.70	0.60	2.53	5.54
Municipal Waste (residual)	144.86	161.90	223.79	266.36
Light Tubes	0.77	0.77	0.91	1.70
Textiles	17.74	18.53	15.25	20.46
Total	2,557.32	2,709.15	2,681.49	2,840.25

In addition to the above, it is anticipated that approx. 2.3 tonnes of waste oil will be received at the facility on an annual basis.

Accordingly, it is anticipated that the new Ballymun Recycling Centre will handle up to 3,000 tonnes of waste per annum.

Based on the proposed receptacles and waste types for acceptance at the Ballymun Recycling Centre, it is anticipated that a maximum of 40 tonnes of hazardous waste will be temporarily stored at the facility at any one time. Facility staff will monitor and record the quantities of hazardous waste on-site to ensure that the threshold for an Industrial Emissions (IE) Licence as set out in the First Schedule to the *Environmental Protection Agency (EPA) Act 1992*, as amended, is not exceeded. Class 11.6 of the First Schedule specifies that an IE Licence is required for the facility where the temporary storage of hazardous waste on the site exceeds 50 tonnes.

Household hazardous waste received at the facility will be stored and handled in accordance with the Agency guidance for civic amenity facilities issued in 2017³.

Additionally, to ensure the IE Licence thresholds as set out in Class 11.2 and 11.4 are not exceeded, the maximum quantity of non-hazardous waste accepted at the facility will not exceed 50 tonnes per day and the maximum quantity of hazardous waste accepted at the facility will not exceed 10 tonnes per day.

4 SITE INFRASTRUCTURE AND OPERATIONS

4.1 FOUL WATER DRAINAGE

An existing 750mm diameter foul sewer pipe runs along St. Margaret's Road to the east of the NCOD site. The foul drainage from the civic amenity site will discharge to this existing 750mm diameter sewer. A pre-connection enquiry was submitted to Irish Water on 31 July 2017 along with preliminary calculations for effluent discharge from the overall site (including the civic amenity centre) and the response from Irish Water stated that the proposed connection can be facilitated. This correspondence is included in the Engineering Services Report.

The only effluent discharged from the civic amenity site will be domestic effluent generated by site staff in the facility office. It is anticipated there will be a maximum of five full-time staff on-site at the facility typically generating 60 litres/person/day⁴.

The drainage layout for the BRC is shown on the drawings in Appendix A.

4.2 SURFACE WATER DRAINAGE

Irish Water records indicate a 900mm diameter surface water pipe east of the NCOD site on St. Margaret's Road. The surface water drainage system for the overall NCOD site has been designed in accordance with the Greater Dublin Strategic Drainage Strategy (GDSDS) and the Greater Dublin Regional Code of Practice for Drainage Works. It will ensure that surface water discharge from the site is limited to the allowable greenfield runoff rate (Qall) of 53.55 litres/second (l/s) or 14.2 l/s/ha, in accordance

⁴ EPA, *Wastewater Treatment Manuals – Treatment Systems for Small Communities, Business, Leisure Centres and Hotels* (1999)

with GSDSDS, through a combination of attenuation storage tanks, permeable paving and a green roof. All surface water to the attenuation system will discharge to the existing surface water network via a fuel/oil separators and vortex type flow control chambers.

The storm water drainage has been designed to cater for surface water from hard surfaces in the site including roadways, footpaths, and buildings. The drainage network has been designed so that the network pipelines and manholes will not be surcharged as a result of the critical 2-year critical rainfall and will not overflow as a result of the critical rainfall with a 30-year and 100-year storm return period intensity. The most up-to-date rainfall intensities for the site area have been derived from Met Éireann and an allowance of 20% increase to account for climate change has been implemented in the attenuation capacity design.

4.2.1 Sustainable Drainage Systems (SuDS)

The general principal behind SuDS is to reduce the quantity and increase the quality of water leaving the site. In practice, a calculation for the site run-off is carried out using the Institute of Hydrology report No. 124. This gives the limit for discharge from the site.

In accordance with the GSDSDS, underground storage is provided for the 1 in 30-year storm with on-site attenuation provided for the 1 in 100-year storm, to ensure that there is no flooding of the buildings. A flood risk assessment has been carried out to ensure that there is no risk of damage to property or people and to mitigate against flood risks. Flood routing is designed into the site layout.

The SuDS strategy adopted was to divide the overall NCOD site into three separate SuDS Zones, each with its own geocellular tank, fuel/oil separator and vortex type flow control chamber. Each of these zones will then discharge the clean storm water to a trunk main at controlled rates. This trunk main will then discharge to the public storm sewer to the east of the NCOD site along St. Margaret's Road. The SuDS Zones hardstanding areas draining to the network are as follows:

- Zone 01 – 0.42 ha
- Zone 02 – 1.44 ha
- Zone 03 – 1.92 ha

Zone 1 comprises the civic amenity site and is shown on the Drainage Layout Master Plan in Appendix A.

The geocellular attenuation system units have been designed for storm periods with rainfall intensities taken for up to the 100-year return period. The stormwater drainage systems in each of the SuDS Zones will be restricted by vortex type flow control chambers to the following allowable greenfield run-off (Qall) rates:

- Zone 01 – 5.97 l/s
- Zone 02 – 20.40 l/s

- Zone 03 – 27.18 l/s

This gives a combined Qall of 14.14 l/s/ha or 53.55 l/s to the existing public surface water network to the east of the overall NCOD site.

It is proposed to install bypass fuel/oil separators at the civic amenity site as shown on the drainage layouts in Appendix A. The stormwater from the external paved areas will include run-off from the car parking areas and, therefore, may contain hydrocarbons. These potential hydrocarbon pollutants require removal, so that they are not discharged into the environment. The bypass fuel/oil separators have been sized to cater for the total external paved areas.

Any liquid waste received at the facility, including waste oil, household chemicals, paints, etc. will be stored on hardstanding areas and in bunded containers to prevent the potential for release into the stormwater drainage network.

A sedum roof will be constructed on the civic amenity site office as well as the main depot office building to compliment the overall site SuDS objectives.

4.3 WATER SUPPLY

It is proposed to connect a new 250mm diameter watermain to the existing 300mm diameter watermain on the northern boundary of the NCOD site along St. Margaret's Road. This new watermain is to include boundary boxes with integral stopcocks at the connections. Provision is also to be made for the installation of bulk flow meter chambers.

Water consumption on the civic amenity site will be from site staff and water used for wash-down and cleaning. The response to the pre-connection enquiry submitted to Irish Water advised that the proposed connection to the network can be facilitated.

To ensure all parts of the building footprints within the overall NCOD site are within 46m of a fire hydrant, hydrants will be located around the site in addition to the existing hydrants located along St. Margaret's Road. All hydrants are within a minimum distance of 30m to a vehicle access roadway or hard-standing area for fire appliances in accordance with Part B of the Building Regulations.

Two water storage tanks for fire-fighting purposes have also been provided to supply a flow rate of 1500 l/min as per BS 9990⁵. The watermain layout and location of hydrants and underground storage tanks are shown in Appendix A.

The EPA guidance note on fire safety at non-hazardous waste transfer stations⁶ will be consulted in the preparation of an Emergency Response Procedure for the facility.

⁵ British Standards Institute (BSI), *BS9990:2015 – Non automatic fire-fighting systems in buildings* (2015)

⁶ EPA, *Guidance Note: Fire Safety at Non-Hazardous Waste Transfer Stations* (2013)

4.4 HOURS OF OPERATIONS

It is anticipated that the Ballymun Recycling Centre opening hours will be similar to the existing Ringsend Recycling Facility, however this will be determined in agreement with the private contractor. Therefore, authorisation is being sought to accept waste from members of the public at the facility within the following opening hours:

- 09:00 – 17:00 (Monday to Wednesday)
- 09:00 – 18:00 (Thursday to Friday)
- 09:00 – 16:00 (Saturdays and Bank Holidays)

It is not proposed to provide public access to the civic amenity site on Sundays. The above opening times will provide suitable opportunity for the public to avail of the facility outside of normal working hours.

4.5 WASTE ACCEPTANCE

It is anticipated that the vast majority of the public will bring waste to the facility using cars and small vans. Facility staff will be in position at the entrance gate to inspect incoming waste and take payment, as appropriate. Any inappropriate incoming waste will be refused, and the customer requested to remove the unsuitable waste from the facility. A quarantine area will be identified for temporary storage of unsuitable waste.

Commercial waste will not be accepted at the facility. An example of the procedure to be followed to identify commercial waste is included in Appendix B.

Staff at the facility will record waste quantities based on the waste removed from the facility. Waste collection vehicles are typically equipped with measurement cells to record haulage loads. These records will be used to complete Annual Environmental Reports (AERs) as required by the conditions of the Waste Licence.

4.6 QUARANTINE

The waste types proposed for acceptance at the facility are outlined in Table 2.1 above. Facility staff will be present at the entrance to the facility to inspect incoming waste and take payment, as appropriate. As such, it is unlikely that unapproved waste types will be received at the facility.

Nonetheless, a quarantine area will be identified for temporary storage of unsuitable waste received at the facility. This material will be subsequently removed from the NCOD facility as soon as possible.

4.7 SIGNAGE

Signage will be erected at the entrance to the facility displaying the facility opening hours as well as type of wastes permitted for acceptance at the facility and the associated fees, where applicable. The signs will also specify waste types which are not acceptable. Once operational, the facility will be advertised on Dublin City Council's website and details on the facility opening hours, wastes accepted, and directions will be provided.

'No Dumping' signage will also be erected including details of fines associated with illegal dumping prosecutions and notifications of CCTV monitoring. Signage will also include contact details for reporting littering or pollution. Signage erected at the Ringsend facility is shown in Figure 4.1 and similar signage will be erected at the BRC facility.

As is typically required under a Waste Licence authorisation, a Facility Notice Board will be erected at the site entrance which will display the name and telephone number of the facility, licence reference number and license holder name as well as any other details required under the licence conditions.



Figure 4.1: Notification and signage erected at Ringsend Recycling Centre (Source: Google Maps)

4.8 FACILITY SECURITY AND PARKING

All public customers entering the facility will do so from the access entrance on Carton Way. This facility entrance will include a sliding gate across the vehicular entrance and a separate pedestrian access gate. Both gates will be closed and secured outside of operational hours.

A separate sliding gate on the eastern boundary of the facility will provide access to the main NCOD site.

The overall NCOD site boundary will be secured by a 3m high weldmesh boundary fence which will extend to 5m high at the entrance to the civic amenity facility (from Carton Way) and adjacent to the facility office. External lighting and CCTV cameras will be installed on the site boundary.

Car parking spaces for CAS staff parking will be provided in the multi-storey car park on the main depot site. 21 no. parking spaces are allocated for the public in the CAS alongside the waste receptacles as shown on the Site Plan.

4.9 WASTE COLLECTION

As identified previously, all waste materials collected from the facility and transferred off-site for reuse, recycling, recovery or disposal will be transferred through the NCOD depot site and will exit the site onto St. Margaret's Road opposite the entrance to IKEA. This signal-controlled junction is permitted for HGV

use in accordance with the relevant planning permission. All waste collection vehicles removing waste from the site will be required to hold a valid waste collection permit in accordance with the requirements of the *Waste Management (Collection Permit) Regulations 2007* as amended.

During pre-application consultations, the Agency identified concerns over the transfer of waste from the waste licenced civic amenity site through the NCOD depot site prior to accessing the public road. In response, the waste licence boundary associated with the NCOD operations (as shown in Figure 1.1) was amended to ensure that waste collection vehicles from the civic amenity site would not pass through a different waste licensed boundary area.

There were also concerns raised as to the responsibility and liability for any potential spills which may occur from waste collection vehicles while travelling through the NCOD site. As it is proposed that the Waste Licence for the civic amenity site will be transferred to a private contractor in due course, the Agency identified concerns over where the responsibility would lie in the event of a spillage.

It is noted that the holder of a waste collection permit has responsibility to maintain their vehicles and waste containers in good condition. In accordance with Section 20(3)(b) of the *Waste Management (Collection Permit) Regulations 2007* as amended:

“The nominated authority may attach to each collection permit that may be granted by it — conditions relating to existing or proposed measures, including emergency procedures, to prevent unauthorised or unexpected emissions and to minimise the impact on the environment of any such emissions”.

Typical conditions included in a waste collection permit state:

“All vehicles, skips, tankers, trailers, containers and receptacles used by the permit holder for the purposes of the activity to which this permit relates, shall be fit for purpose and maintained in a manner as not to cause environmental pollution.

The permit holder shall ensure that all consignments of waste are appropriately covered and managed during transit (including when parked) to prevent spillage, dust, litter or other nuisance. Any such incident shall be rectified as soon as is practicable to minimise environmental pollution”.

DCC have also consulted with the National Waste Collection Permit Office (NWCPO) in relation to this issue and were advised that standard conditions in relation to insurance and liability are inserted into waste collection permits, which state:

“The permit holder shall effect and maintain appropriate and adequate policies of insurance insuring them in respect of any liability on their part to pay damages or costs on account of injury to person or property arising from the activities concerned.

Without prejudice to the foregoing, the minimum level of indemnity to be maintained by the permit holder shall be to a value not less than €6,500,000 for public liability insurance including cover for sudden and unforeseen pollution and €6,500,000 for third party property damage motor insurance. In both cases noting an indemnity to Offaly County Council as the National Waste Collection Permit Office.”

The above legislation and conditions do not specify that the permit holder’s responsibility varies wherein an accident occurs within public (such as public roads), private lands (such as the DCC depot) or within a permitted or licensed boundary. Accordingly, it is our determination that the above responsibilities remain with the waste collection permit holder insofar as they are handling and transferring waste materials.

Insofar as the Waste Licence for the civic amenity site will be transferred to a private contractor in due course, DCC will ensure that appropriate legal agreements are in place with the contractor to ensure that all waste hauliers engaged to remove waste material from the civic amenity site are appropriately permitted and that checks are carried out on the waste hauliers equipment to ensure that it complies with the waste collection permit conditions. Subject to legal approval, it is intended that the contractual agreement between DCC and the appointed waste contractor will specify that the private contractor holds liability for any incident occurring on the main depot site as a result of their activities.

Nonetheless, in the unlikely event of an accident or spillage which results in the release of waste from containers on the main depot site, civic amenity site staff as well as the main depot staff in the workshops will respond to the incident in accordance with the relevant emergency procedures.

4.10 WELFARE FACILITIES

The office building at the entrance gate to the BRC will provide welfare facilities for staff including a canteen, toilets, changing areas and stores.

APPENDIX A

Drawings

NCOD-TOB-ZZ-XX-DR-CE-6251 - Drainage Layout Master Plan

NCOD-TOB-ZZ-XX-DR-CE-6252 - Drainage Layout









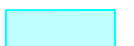









NCOD-TOB-ZZ-XX-DR-CE-6253 - Watermain Master Plan

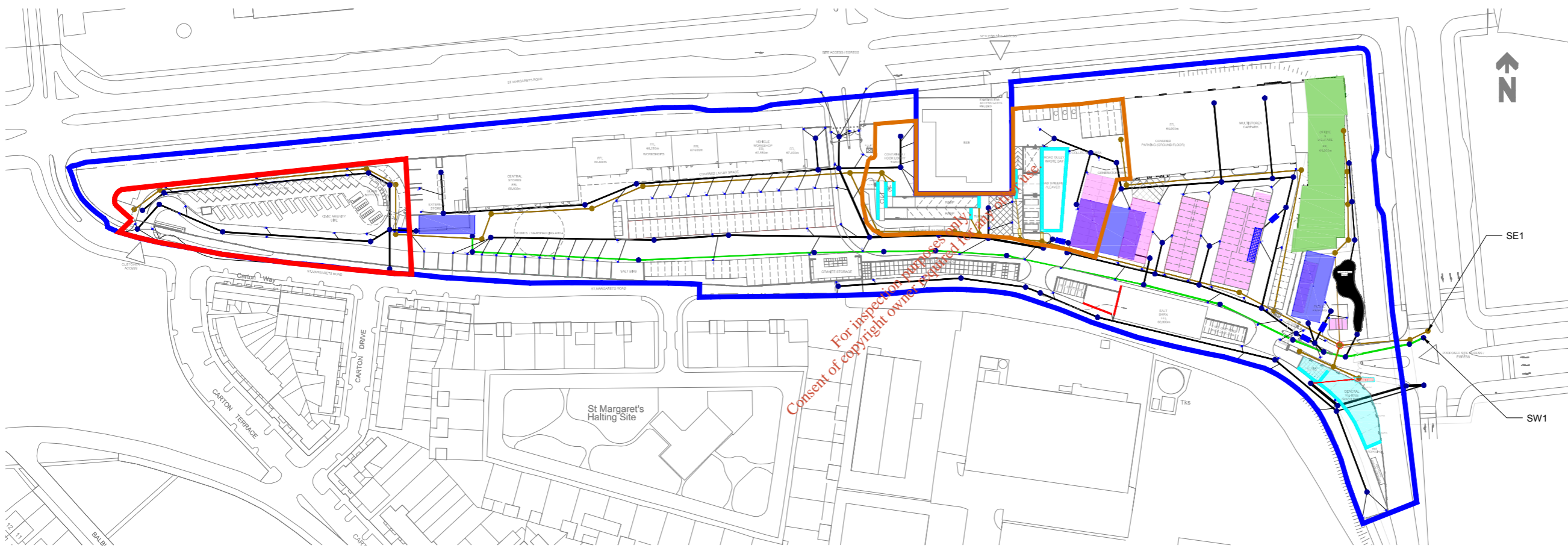
NCOD-TOB-ZZ-XX-DR-CE-6254 - Watermain Layout

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THE INFORMATION ON THIS DRAWING IS TO THE ORDNANCE SURVEY IRELAND ITM COORDINATE SYSTEM


LEGEND

-  OWNERSHIP BOUNDARY
-  BALLYMUN RECYCLING CENTRE WASTE LICENCE BOUNDARY
-  NCCD WASTE LICENCE BOUNDARY
-  STORM WATER PIPE (CONCRETE PIPE)
-  TRUNK STORM WATER PIPE (CONCRETE PIPE)
-  FOUL WATER PIPE THERMOPLASTIC STRUCTURAL WALL PIPE
-  PRECAST CONCRETE DISHED DRAINAGE CHANNEL
-  GEO-CELLULAR ATTENUATION TANK
-  SELF CONTAINED WASHDOWN AREA
-  RAINWATER HARVESTING TANK
-  GREEN ROOF
-  PERMEABLE PAVING
-  ATTENUATION POND
-  STORM / SURFACE MANHOLE
-  FOUL MANHOLE
-  ROAD GULLY
-  TRENCH (REFER TO TRENCH DETAIL: DWG NCCD-TOB-ZZ-XX-DR-CE-2076)
-  CONCRETE ACO DRAIN (REFER TO ACO DETAIL: DWG NCCD-TOB-ZZ-XX-DR-CE-2076)



Site Drainage Layout
(Scale 1:1000)

Rev	Date	Description	By	Chkd.
A	FEB-2019	ISSUED FOR LICENCING	PK	RH

Client:  Comhairle Cathrach Bhaile Átha Cliath
Dublin City Council

Project: **BALLYMUN RECYCLING CENTRE**

Title: **DRAINAGE LAYOUT MASTER PLAN**

Scale @ A1: **1:1000**

Prepared by: PK	Checked: RH	FEB 2019
Project Director: Michael McDonnell		
Suitability Status: FOR LICENCING		

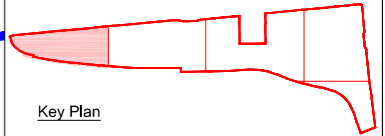


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Drawing No.: NCCD-TOB-ZZ-XX-DR-CE-6251 **Revision: A**

ST. MARGARETS ROAD

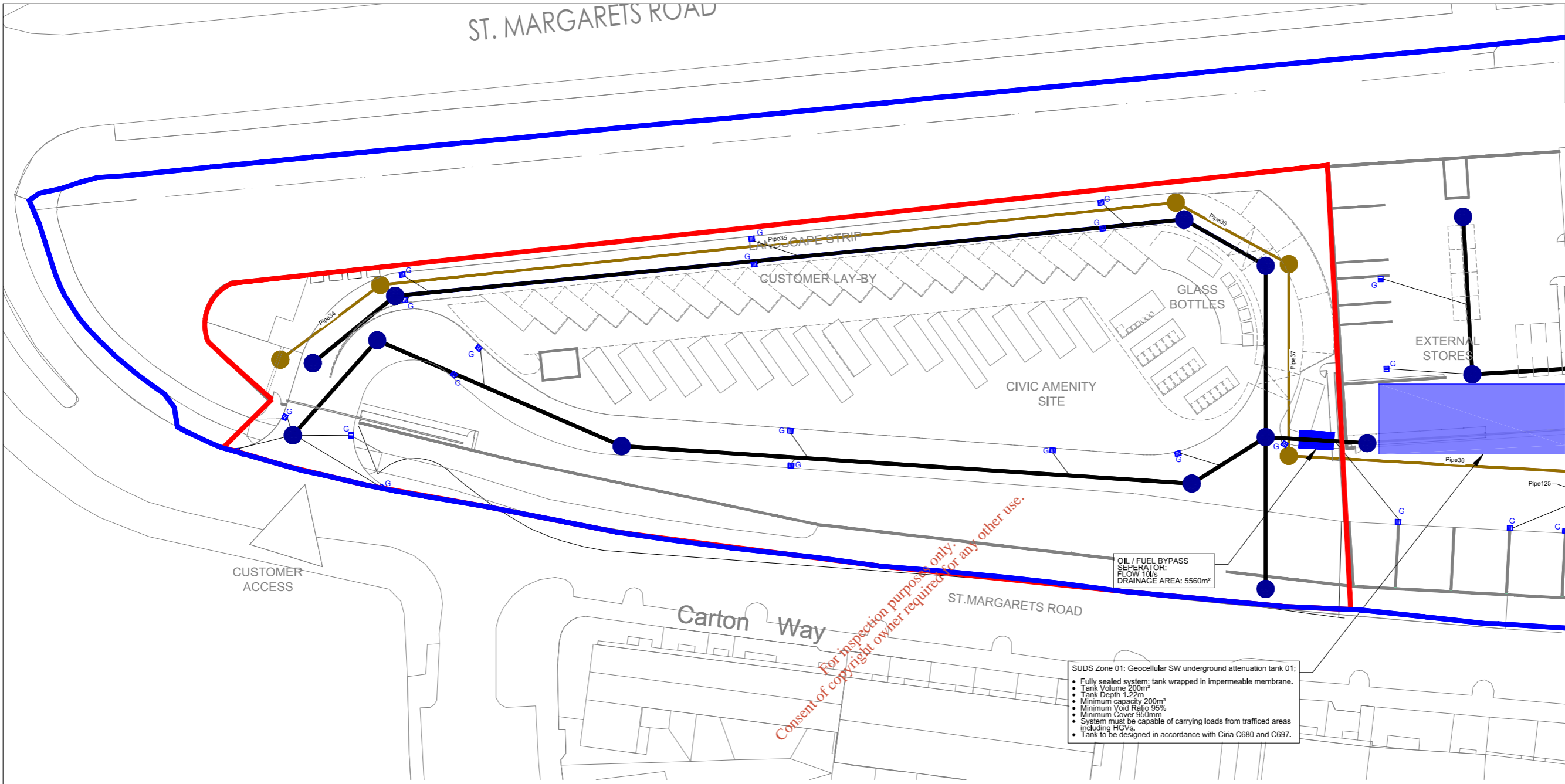


Key Plan

THE INFORMATION ON THIS DRAWING IS TO THE ORDNANCE SURVEY IRELAND ITM COORDINATE SYSTEM

LEGEND

- OWNERSHIP BOUNDARY
- BALLYMUN RECYCLING CENTRE WASTE LICENCE BOUNDARY
- STORM WATER PIPE (CONCRETE PIPE)
- TRUNK STORM WATER PIPE (CONCRETE PIPE)
- FOUL WATER PIPE (THERMOPLASTIC STRUCTURAL WALL PIPE)
- GEO-CELLULAR ATTENUATION TANK



CUSTOMER ACCESS

Carton Way

ST. MARGARETS ROAD

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OIL / FUEL BYPASS SEPARATOR:
FLOW 10L/S
DRAINAGE AREA: 5560m²

SUDS Zone 01: Geocellular SW underground attenuation tank 01:
 • Fully sealed system; tank wrapped in impermeable membrane.
 • Tank Volume 200m³
 • Tank Depth 1.22m
 • Minimum capacity 200m³
 • Minimum Void Ratio 95%
 • Minimum Cover 950mm
 • System must be capable of carrying loads from trafficed areas including HGVs.
 • Tank to be designed in accordance with Ciria C680 and C697.

Rev	Date	Description	By	Chkd.
A	FEB-2019	ISSUED FOR LICENCING	PK	RH

Site Drainage Layout
(Scale 1:250)

- NOTES:
- FIGURED DIMENSIONS ONLY TO BE TAKEN FROM THIS DRAWING.
 - ALL DRAWINGS TO BE CHECKED BY THE CONTRACTOR ON SITE
 - ENGINEER/EMPLOYERS REPRESENTATIVE, AS APPROPRIATE, TO BE INFORMED BY THE CONTRACTOR OF ANY DISCREPANCIES BEFORE ANY WORK COMMENCES
 - THE CONTRACTOR SHALL UNDERTAKE A THOROUGH CHECK FOR THE ACTUAL LOCATION OF ALL SERVICES/UTILITIES, ABOVE AND BELOW GROUND, BEFORE ANY WORK COMMENCES
 - ALL LEVELS SHOWN RELATE TO ORDNANCE SURVEY DATUM AT MALIN HEAD

Client: Comhairle Cathrach Bhaile Átha Cliath
Dublin City Council

Project: **BALLYMUN RECYCLING CENTRE**

Title: **DRAINAGE LAYOUT**

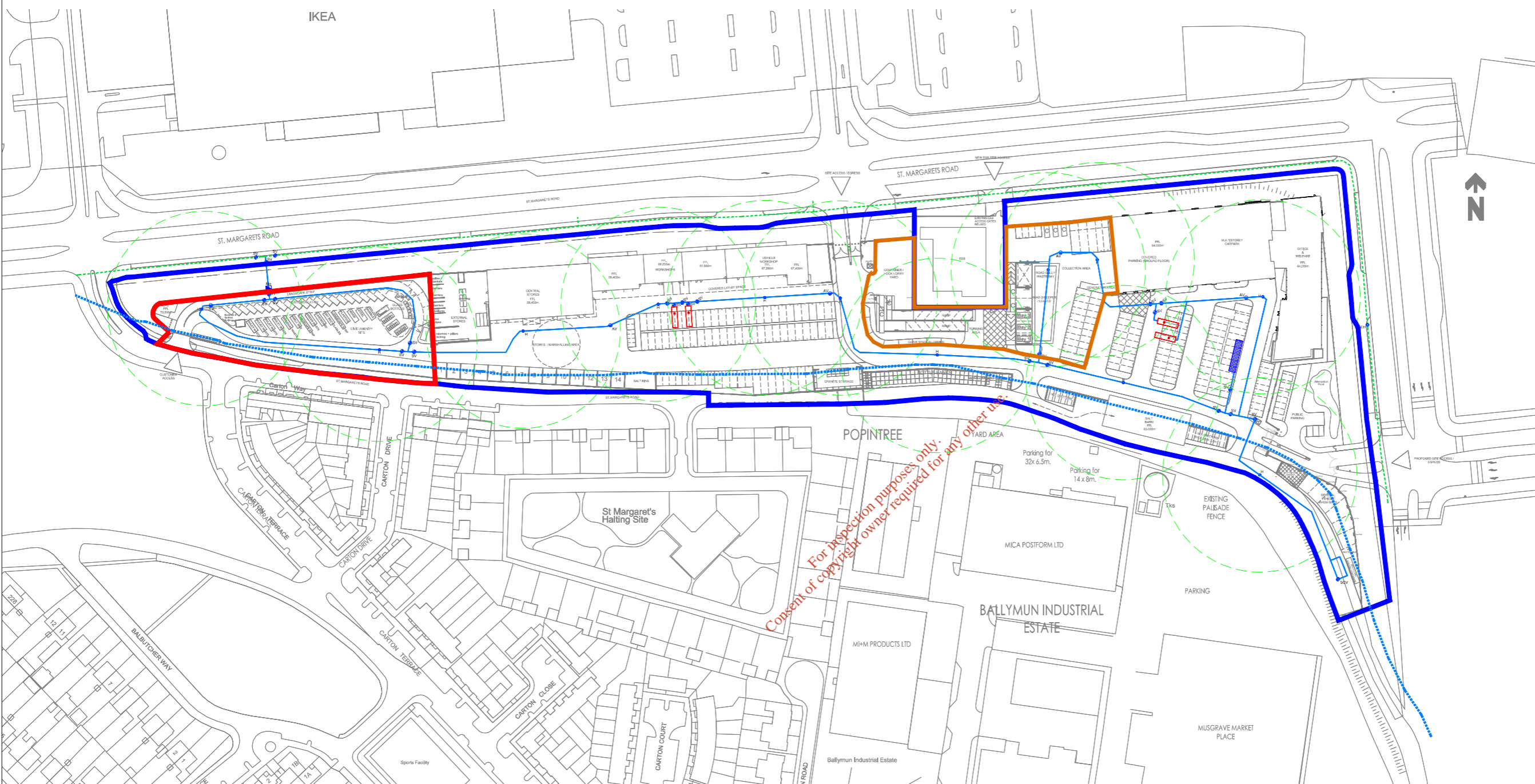
Scale @ A1: **1:250**
 Prepared by: PK Checked: RH FEB 2019
 Project Director: Michael McDonnell
 Suitability Status: FOR LICENCING

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Drawing No.: NCOD-TOB-ZZ-XX-DR-CE-6252
 Revision: **A**

THE INFORMATION ON THIS DRAWING IS TO THE ORDNANCE SURVEY IRELAND ITM COORDINATE SYSTEM

- LEGEND**
- OWNERSHIP BOUNDARY
 - BALLYMUN RECYCLING CENTRE WASTE LICENCE BOUNDARY
 - NCOD WASTE LICENCE BOUNDARY
 - - - EXISTING MOPVC 300mm WATERMAIN FROM FCC RECORDS
 - PROPOSED 250mm HDPE POTABLE WATERMAIN
 - - - FIRE HYDRANT COVERAGE
 - - - EXISTING 800Ø DI WATERMAIN: REFER TO NCOD-TOB-07-XX-DR-CE-2110 FOR DETAILS
 - H FIRE HYDRANT
 - EH EXISTING HYDRANT
 - + SV SLUICE VALVE
 - + SCV SCOUR VALVE
 - Me BULK WATER METER
 - AV AIR VALVE
 - RAINWATER HARVESTING TANK



Site Watermain Plan
(Scale 1:500)

- NOTES:**
- FIGURED DIMENSIONS ONLY TO BE TAKEN FROM THIS DRAWING.
 - ALL DRAWINGS TO BE CHECKED BY THE CONTRACTOR ON SITE.
 - ENGINEER/EMPLOYERS REPRESENTATIVE, AS APPROPRIATE, TO BE INFORMED BY THE CONTRACTOR OF ANY DISCREPANCIES BEFORE ANY WORK COMMENCES.
 - THE CONTRACTOR SHALL UNDERTAKE A THOROUGH CHECK FOR THE ACTUAL LOCATION OF ALL SERVICES/UTILITIES, ABOVE AND BELOW GROUND, BEFORE ANY WORK COMMENCES.
 - ALL LEVELS SHOWN RELATE TO ORDNANCE SURVEY DATUM AT MALIN HEAD.
 - REFER TO DRAWINGS NCOD-TOB-07-XX-DR-CE-2090-2094 FOR DETAILS.

Rev	Date	Description	By	Chkd.
A	FEB-2019	ISSUED FOR LICENCING	PK	RH

Client: Comhairle Cathrach Bhaile Átha Cliath Dublin City Council

Project: **BALLYMUN RECYCLING CENTRE**

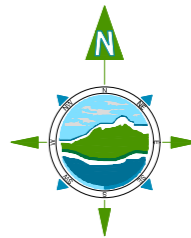
Title: **WATERMAIN MASTER PLAN**

Scale @ A1: **1:1000**

Prepared by:	Checked:
PK	RH
FEB-19	
Project Director:	Michael McDonnell
Suitability Status:	A

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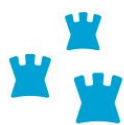


Drawing No.:	NCOD-TOB-ZZ-XX-DR-CE-6253	Revision:	A
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APPENDIX B

Waste Acceptance Procedure – Commercial Waste

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Policy on Waste Acceptance at Ballymun Recycling Centre

Commercial waste is not accepted at the facility.

1. **Frequency of use:** If a vehicle is making repeated trips to the facility with large amounts of waste, the driver should be approached by the designated member of staff and questioned about the nature of their visit. Name, address of driver and vehicle registration should be taken for reporting purposes. The nature of the waste should be examined, and an explanation sought regarding its origin.
2. **Size of Vehicles:** The drivers of all large vehicles should be questioned about the nature and origin of their waste. Details as in Item 1 should be taken.
3. **Nature of Material:** Only household waste shall be accepted. No commercial waste is permitted. Unacceptable materials should not be deposited at the site. As a guide household waste should not, in general, contain multiples of the same item. The quantity of material involved may also indicate that it is commercial in origin.
4. **Number of Items:** Only one item of each material type from a household should be accepted at the site i.e. one fridge, cooker, suite of furniture etc.
5. **Non-Acceptance:** If the designated person reasonably suspects that the waste is commercial in origin then it should not be accepted at the facility. The refused person should be given the reason for the non-acceptance and informed that they can write to Waste Management Services in Dublin City Council if they wish to make further representations.

It should be noted that some householders might require the use of commercial vehicles to transport their household items to the centre. The use of a commercial type of vehicle does not in itself indicate that the waste is commercial. In order to ensure uniformity in the application of these rules there should be one person designated to make on site judgements in relation to this matter.

The relevant person in Waste Management Services in Dublin City Council is to be given a written report as soon as possible after any incident of non-acceptance so that they can deal with any queries raised in relation to it.

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