
ATTACHMENT A - NON TECHNICAL SUMMARY

This non-technical summary has been prepared in accordance with Article 12(1)(u) of the Waste Management (Licensing) Regulations S.I. 395 of 2004. Sub-articles (a) to (t) of Article 12 are addressed below.

For clarity, the paragraph numbering is in accordance with the numbering of Article 12(1) (a) to (t).

Article 12(1)

(a) General Details

Cork City Council,
City Hall,
Cork

Tel.: 021-4966222
Fax: 021-4414238

(b) Planning Authority

The development is in the functional area of Cork City Council. This proposed development is exempt from planning under Article 80 Subsection 1 H(i) of the Planning and Development Regulations 2001.

(c) Sanitary Authority

The existing site is connected to the Cork main drainage scheme via the Tramore Valley sewer. Effluent is pumped for treatment to Carrigrennan wastewater treatment plant in Little Island. The final effluent from this wastewater treatment plant is discharged to Lough Mahon. This plant is in the functional area of:

Cork County Council,
County Hall,
Cork

Tel: 021 4276891
Fax: 021 4276321

(d) Location

The facility is located in the townlands of Ballyphehane, Curraghconway and Inchisarsfield, just off the South City Link Road in Cork city. The National Grid reference for the site is:

E 1681 N 6968

Drawing CE08-011-05-002 shows the location of the site.

(e) Nature of the Development

Existing Development

The Kinsale Road site comprises of a number of varying infrastructure including:

- Capped landfill
- Active landfill
- Civic amenity facility
- Construction and demolition (incl. timber processing area) waste recovery facility
- Composting area
- Waste electrical and electronic equipment (WEEE) collection area
- Leachate treatment plant
- Surface water management system

Proposed Development

Kinsale Road landfill is in operation since 1963 and consists of unlined cells which are based on the 'dilute and disperse' principle. The site itself occupies a total area of c.70 ha. In accordance with the EU Directive on the Landfilling of Waste, landfilling activities must cease at the site in July 2009. Consequently, Cork City Council is proposing to construct a waste transfer station within the existing licenced site for the bulking up of waste prior to transporting for disposal.

The proposed development will have a maximum capacity of 22,000 tonnes per annum and will accept Cork City Council non-hazardous household and commercial waste only. Bulking up the waste will limit the number of vehicles transporting waste for final disposal to approximately two large ejector trailers per day.

The proposed location of the waste transfer station is along the western boundary of the site adjacent to the recycling area as shown on Drawing CE08-011-05-003

The type of plant proposed at the waste transfer station will include

- waste storage infrastructure
- weighbridge(s)
- vehicle parking
- hardstanding areas
- waste inspection and quarantine areas
- refuse collection vehicles
- front end loader
- compactor/ejector trailers.

Proposed Hours of Waste Acceptance/Handling at the Waste Transfer Facility

Waste will be accepted between the hours of 8.00 to 18.00 Monday to Friday; 8.00 to 17.00 on Saturdays; and 7.00 to 09.00 on Sundays and Bank Holidays.

Proposed hours of any construction and development works at the facility

Construction and development works will be between the hours of 8.00 to 20.00 Monday to Friday; 8.00 to 17.00 on Saturdays with no work on Sundays and Bank Holidays.

Proposed hours for housekeeping and maintenance

Care and maintenance will be undertaken between the hours of 07.30 to 18.30 Monday to Friday; 8.00 to 5.30 on Saturdays with no work on Sundays and Bank Holidays.

(f) Class of Activity

In accordance with the Third and Fourth Schedules of the Waste Management Acts, 1996 to 2003, it is proposed to carry out the following classes of activity at the facility

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Table 1: Waste Disposal Activities, in accordance with the Third Schedule of the Waste Management Acts 1996 to 2003

Class 1.	<p>Deposit on, in or under land (including landfill):</p> <p>This activity is limited to the disposal of the waste types specified in this licence up to a maximum of 100,000 tonnes per annum.</p>
Class 2	<p>Land treatment, including biodegradation of liquid or sludge discards in soils:</p> <p>This activity is limited to the disposal of non hazardous sludge at the landfill up to a maximum of 1,500 tonnes per annum.</p>
Class 4.	<p>Surface impoundment, including placement of liquid or sludge discards into pits, ponds or lagoons:</p> <p>This activity is limited to the operation of leachate and stormwater retention ponds.</p>
Class 5	<p>Specially engineered landfill, including placement into lined discrete cells which are capped and isolated from one another and the environment:</p> <p>This activity is limited to the disposal of the certain wastes in exceptional circumstances into lined discrete cells.</p>
Class 7	<p>Physico-chemical treatment not referred to elsewhere in this Schedule which results in final compounds or mixtures which are disposed of by means of any activity referred to in paragraphs 1 to 5 or paragraphs 8 to 10 of this Schedule (including evaporation, drying and calcination):</p> <p>This activity is limited to the operation of the leachate treatment plant.</p>
Class 11	<p>Blending or mixture prior to submission to any activity referred to in a preceding paragraph of this Schedule:</p> <p>This activity is limited to the processing and mixing of construction and demolition waste prior to disposal at the facility.</p>
Class 12	<p>Repackaging prior to submission to any activity referred to in a preceding paragraph of this Schedule:</p> <p>This activity is limited to repackaging of waste. This activity also includes the repacking of waste at the waste transfer facility prior to the transfer and submission of this waste to a waste disposal facility</p>
Class 13	<p>Storage prior to submission to any activity referred to in a preceding paragraph of this Schedule, other than temporary storage, pending collection, on the premises where the waste concerned is produced:</p> <p>This activity is limited to the storage of waste prior to its disposal.</p>

Table 2: Waste Recovery Activities, in accordance with the Fourth Schedule of the Waste Management Act 1996 to 2003

Class 2	<p>Recycling or reclamation of organic substances which are not used as solvents (including composting and other biological transformation processes):</p> <p>This activity is limited to the composting of green waste accepted subject to a limit of 1000m³ at any one time at the facility and the storage of waste oils at the civic waste facility.</p>
Class 3	<p>Recycling or reclamation of metals and metal compounds:</p> <p>This activity is limited to the recovery of metal and metal compounds at the construction and demolition facility and at the civic waste facility.</p>
Class 4	<p>Recycling or reclamation of other inorganic materials:</p> <p>This activity is limited to the recovery of inorganic materials at the construction and demolition facility and the storage of inorganic materials at the civic waste facility.</p>
Class 10	<p>The treatment of any waste on land with a consequential benefit for an agricultural activity or ecological system:</p> <p>This activity is limited to the use of various suitable wastes as intermediate cover and in the closure/restoration stage of the landfill subject to the agreement of the Agency.</p>
Class 11	<p>Use of waste obtained from any activity referred to in a preceding paragraph of this Schedule:</p> <p>This activity is limited to the use of processed wastes in roadways, drains etc. at the facility.</p>
Class 12	<p>Exchange of waste for submission to any activity referred to in a preceding paragraph of this Schedule:</p> <p>This activity is limited to the possible exchange of waste being delivered to the facility in exchange for processed waste subject to the agreement of the Agency.</p>
Class 13	<p>Storage of waste intended for submission to any activity referred to in a preceding paragraph of this Schedule, other than temporary storage, pending collection, on the premises where such waste is produced:</p> <p>This activity is limited to the temporary storage of waste prior to inspection, recycling, recovery and /or reuse at the facility or elsewhere.</p>

Class 1 of the Third Schedule will be the principal activity at the site until landfilling ceases. Under this review, all classes remain the same however; Class 12 of the Third Schedule has been amended to include the repacking of waste at the waste transfer station.

(g) Quantity and Nature of Waste

A total of 22,000 tonnes per annum of waste is proposed to be accepted at the waste transfer station. The quantity of waste to be accepted at the entire facility following the closure of the landfilling activities is outlined as follows:

Waste Type	Tonnes per Annum
Municipal solid waste to waste transfer station	22,000
Construction and demolition wastes	300,000
Waste imported for restoration purposes	100,000
Green waste for composting	1,000 m ³ stored at any one time
Wastes accepted for storage at the civic waste facility prior to recycling, reuse and reclamation	5,000

(h) Raw Materials

The proposed waste transfer station will use materials, substances, fuels and energy during the day-to-day operations. The following are estimates for the annual consumption of material and energy on-site:

Diesel oil c.20,000 litre/annum
Electricity c.200,000 kWh per annum
Water c.500 m³ per annum

(i) Plant, Processes and Operating Procedures

The main operation at the proposed development will be the acceptance, handling and bulking of non-hazardous residual waste.

Loaded refuse collection vehicles (RCVs) will arrive at the facility hardstanding area and will pass over a weighbridge before reversing into the transfer station building. A system of lifting barriers and CCTV cameras at the weighbridge will control the movement and identification of RCVs arriving at the facility.

Waste will be tipped in the higher level waste handling area within the building and inspected. Only residual municipal solid waste will be accepted at the facility. The waste will be lifted using a front-end loader (FEL) and deposited into the waiting ejector trailer in the low level area of the building. Unacceptable waste will be taken to the waste quarantine area and removed offsite to be disposed of appropriately.

Empty compactor or ejector trailers will enter the facility and will unhitch and park their empty trailer in the high level area. The truck will continue to the low level area and hitch up the full compactor or ejector trailer and will exit the facility. A weighbridge will be permanently fitted within the lower level area of the building, weighing ejector trailers before and after filling. This weight information will be transmitted to the administration building via a telemetry link.

(j) Regarding Paragraphs (a) to (g) of section 40 (4) of the Waste Management Act

The information contained within the waste licence application form and its attachments demonstrates that the proposed facility meets the above requirements of the Act.

(k) Emissions from the Site

Air

Potential air emission will include of a point emission from the air abatement system as well as fugitive emissions of odour and/or dust released during the opening of the roller shutter doors during waste acceptance.

The fugitive emissions will be insignificant as the building will be operated under negative pressure and rapid-action doors which close immediately after vehicle entry and exit thus minimising any significant dust or odour emissions at the facility.

Noise

During the operation of the waste transfer station, the principal noise sources will include:

- the deliveries of material to the site
- the unloading and loading of waste within the processing building
- material handling within the processing building
- mobile plant within the building

It is not expected that noise emissions from the facility will be significant as all waste activities will take place inside the transfer building. In addition, the rapid action doors will help reduce noise emissions from the building. Noise emissions will also be limited to day-time operational hours which will reduce the noise nuisance impact on the surrounding area.

Surface Water

Surface water runoff from the surrounding hard-standing areas of the waste transfer station will be collected and drained to the existing surface water swales to the east of the facility. This swale discharges to the surface water lagoon to the south east corner of the site. The outlet to the lagoon is tested continuously and is released to the reed-bed percolation area before outfalling to the Tramore River.

Sewer

Currently, the licenced facility is connected to the Tramore Valley sewer. Wastewater and leachate from the facility is pumped to this sewer connection. It is proposed that leachate from the waste transfer building will be connected into the current leachate collection system and discharged to the Tramore Valley sewer.

Groundwater

There will be no direct discharges to groundwater from the proposed facility.

Environmental Nuisances

Environmental nuisances such as bird, flies, dust, litter and fire have the potential to occur if not controlled. A number of mitigation measures have been incorporated into the design and operation of the facility to minimise nuisances. These include:

- All waste vehicles are fully enclosed or covered to prevent any litter entering the environment.
- The access road and hardstanding areas will be fully paved and therefore traffic generated dust will be minimal.
- Rapid action closing doors will minimise the fugitive dust and odour emissions, litter etc from the building.

The building will be fitted with fire detection and alarm systems, smoke detectors, bell sounders and manual call points placed throughout the building. The site will be served by a watermain feeding hydrants and manual fire fighting equipment like hose reels. Any fire water run-off generated will be collected and contained through the leachate and surface water collection systems and discharged to the site leachate collection system. This will prevent any environmental impacts on the receiving environment due to a fire.

(l) Effects of Emissions

An assessment of the effects of the above listed emissions on the environment has been carried out and it has been concluded that the proposed development will not significantly effects the environment. Further details on emissions can be found in Attachment E and Attachment I of the Waste Licence Application. The facility has been designed to minimise the emission of pollutants and operational procedures will be implemented to reinforce these design features.

(m) Monitoring and Sampling Points

Environmental monitoring will be undertaken at the proposed facility for surface water, air (filtration emissions, dust and odour), sewer and noise emissions. Proposed monitoring points are indicated on drawing CE08-011-05-006 – Proposed Monitoring Location Map at a frequency to be agreed with the Agency.

All environmental monitoring will be carried out by qualified persons and any laboratory analysis that is required will be carried out at the onsite Cork City Council laboratory or at an approved off-site laboratory. All monitoring will be carried out according to established procedures, approved by the Environmental Protection Agency.

(n) Arrangements for Waste Arising from Activity

Staff employed at the waste transfer station will use the existing administration office, canteen and welfare facilities which will result in the generation of small quantities of municipal waste. This waste is recovered onsite at the civic amenity as far as possible and the remaining waste will be incorporated into the waste collected at the waste transfer building and transported office site for disposal.

Leachate generated within the waste transfer facility will be collected in the leachate management system and conveyed to the on-site leachate conditioning plant.

(o) Arrangements for Off-Site Treatment or Disposal of Wastes

The bulked up waste from the waste transfer station will be transported to an appropriate licenced facility for disposal/recovery

Leachate generated at the facility will be discharged to the existing sewer connection.

(p) Unauthorised or Unexpected Emissions

The material delivered to the facility will be inspected and only acceptable waste will be accepted at the facility. Any unsuitable material will be rejected.

Staff will be present onsite at all times during opening hours to supervise and carry out operations and to deal with any emergencies. A CCTV security system is installed onsite. Key staff will be on-call to respond to any emergency situation outside of normal working hours e.g. night-time, weekends and public holidays.

An emergency response procedure has been prepared and implemented at the facility to prevent accidents and minimise any effects on the environment from accidental emissions or emergency situations, including:

- Activation of Office Fire or Gas Alarms
- Procedure for Dealing with Hot or Burning Loads
- Procedure for Dealing with Fires and Explosions on Site
- Procedure for Dealing with Flooding
- Procedure for Dealing with Uncontained Spillage / Leakage
- Procedure for Dealing with a Notifiable Injury
- Procedure for Dealing with a Landfill Gas Emergency
- Procedure for Dealing with Power Failure

All of these existing procedures will apply to the new waste transfer station.

(q) Closure and Restoration

It is anticipated that the facility will be operated indefinitely. However if the facility should close for some unforeseen reason all waste and all equipment will be removed from the facility. Waste would be removed to authorised facilities. Equipment will be recycled where possible. The building where waste activities occur would, (if permissible) remain and would likely be used for another purpose.

If a decision is taken to decommission the facility, the Agency will be notified at least six months in advance of the closure and an aftercare management plan will be prepared and submitted to the Agency within this time period.

Activities at the site are unlikely to result in either groundwater or land contamination as the entire site is made up of concrete hardstandings and there is no permanent storage of waste on site. The nature of activities that occur at the site will ensure that no remediation of the site will be necessary in the event of closure of the facility.

(r) Financial Provisions

Existing financial provisions for the restoration and aftercare of the landfill facility will continue. The proposed waste transfer station will not increase the overall liability of the facility; therefore additional financial provisions are not required for this development.

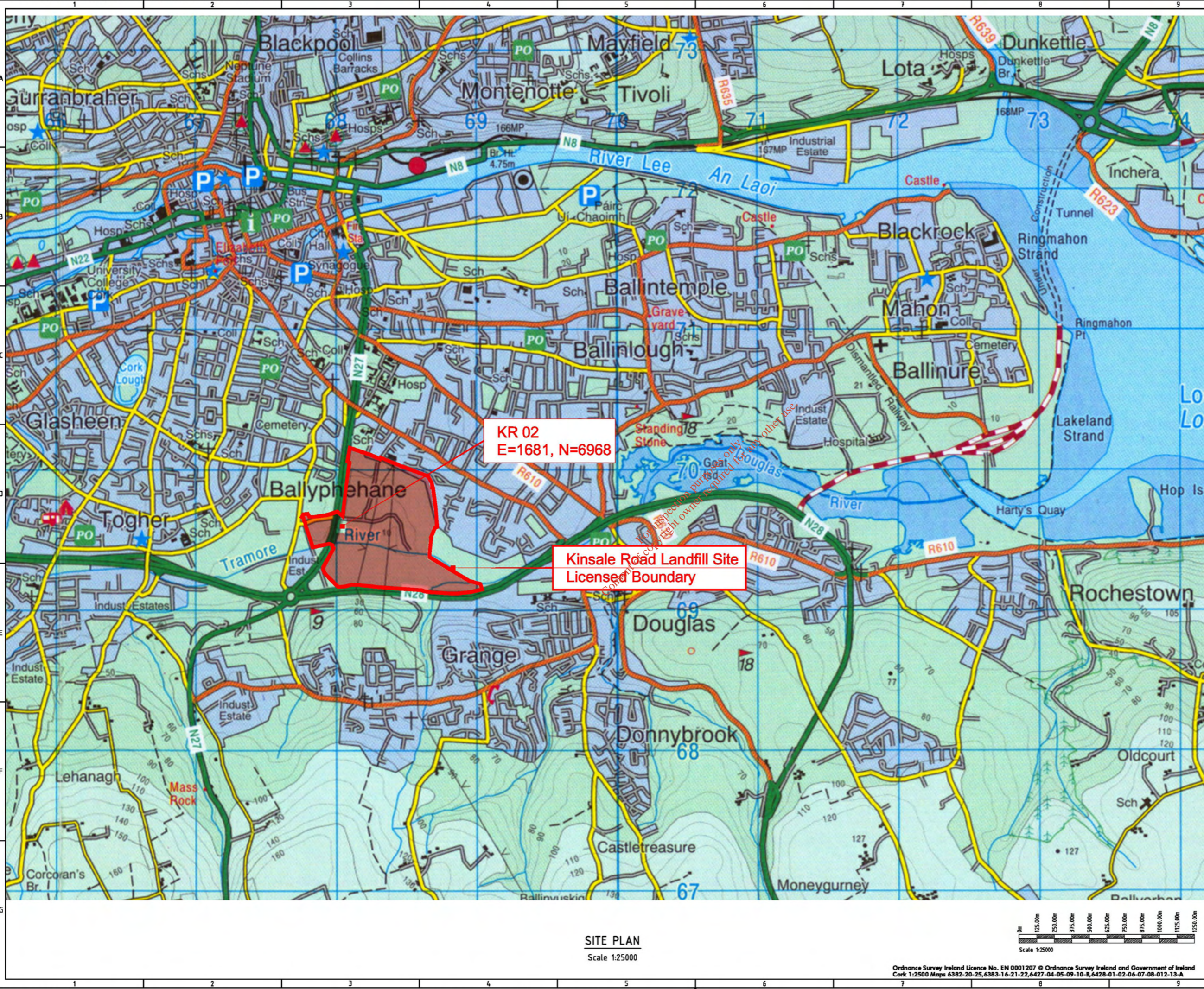
(s) European Communities (Control of Major Accident Hazards Involving Dangerous Substances) Regulation 2000

The above Regulations do not apply to the proposed development.

(t) Geological and Hydrogeological Nature of the Lands

There will be no direct discharges to groundwater from the proposed development. However, as part of this waste licence review, a hydrogeological assessment of the entire site is being conducted.

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NATURAL SCALE



KR 02
E=1681, N=6968

Kinsale Road Landfill Site
Licensed Boundary

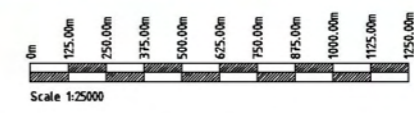
Rev.	Drawn	Checked	Appd	Rev Origin	Date	Description

Name of Client	
CORK CITY COUNCIL	
Name of Job	
KINSALE ROAD LANDFILL SITE	
Title of Drawing	
SITE LOCATION MAP	

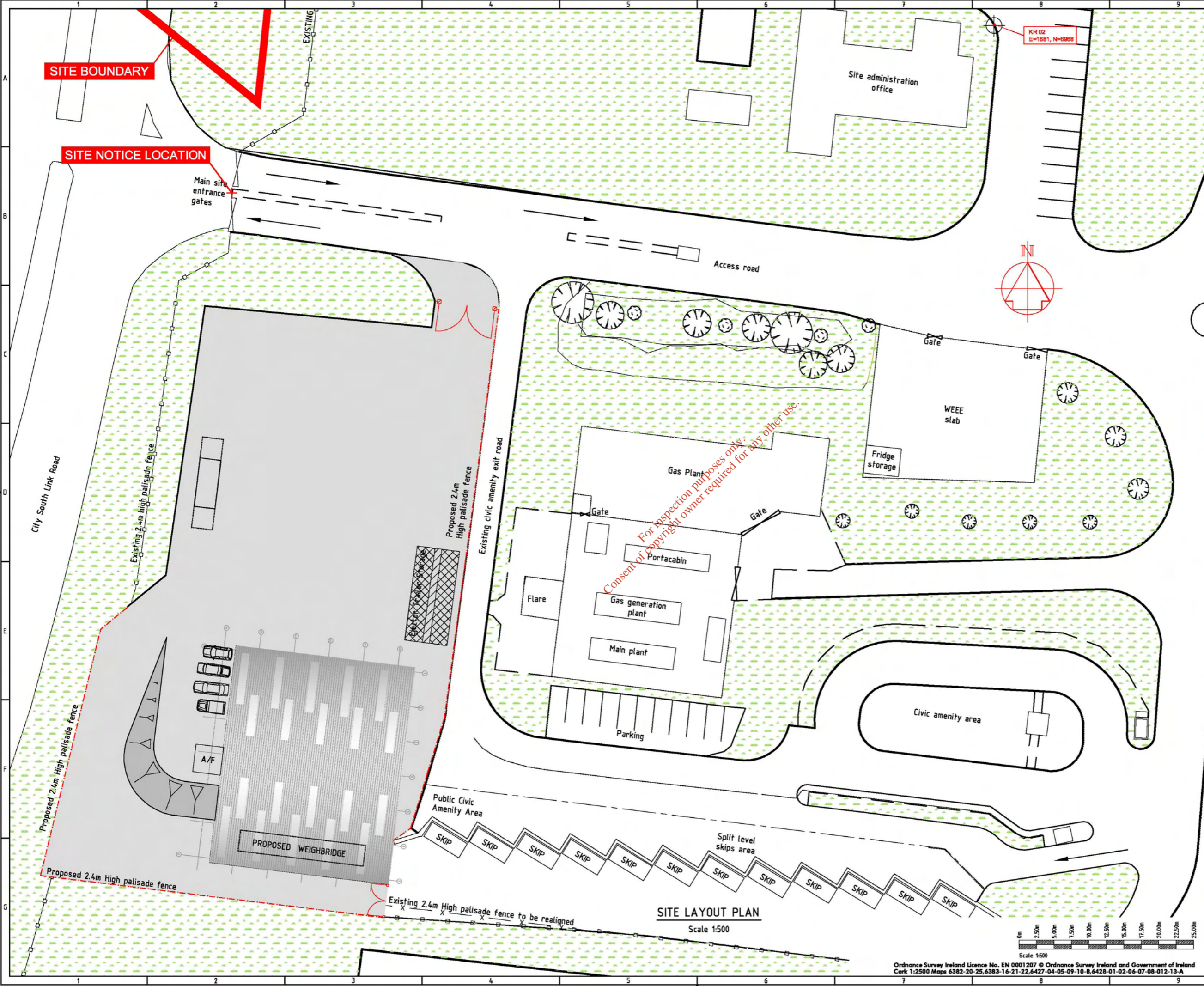
Scales Used	This Drawing was printed to
1:25000	A3
Dwg. No.	Rev.
CE08-011-05-002	A

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SITE PLAN
 Scale 1:25000

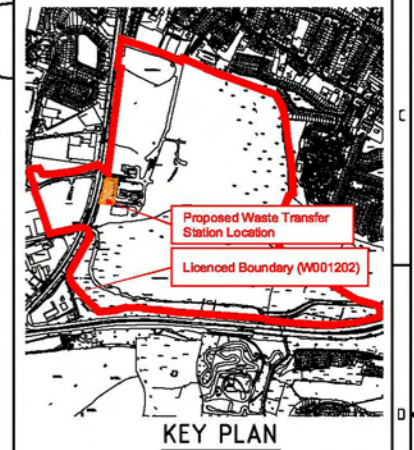


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 Cork 1:25000 Maps 6382-20-25, 6383-16-21-22, 6427-04-05-09-10, 6428-01-02-06-07-08-012-13-A



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- LEGEND:**
- Proposed hard standing
 - Existing palisade fence
 - Existing grassed areas
 - Proposed Palisade 2.4m high fencing
 - Licenced boundary
 - A/F Air Filtration Unit



Rev.	Drawn	Checked	Appd	Rev Origin	Date	Description
A	GH	COC	ME	Cork	09.12.08	Issue for Waste Licence Application

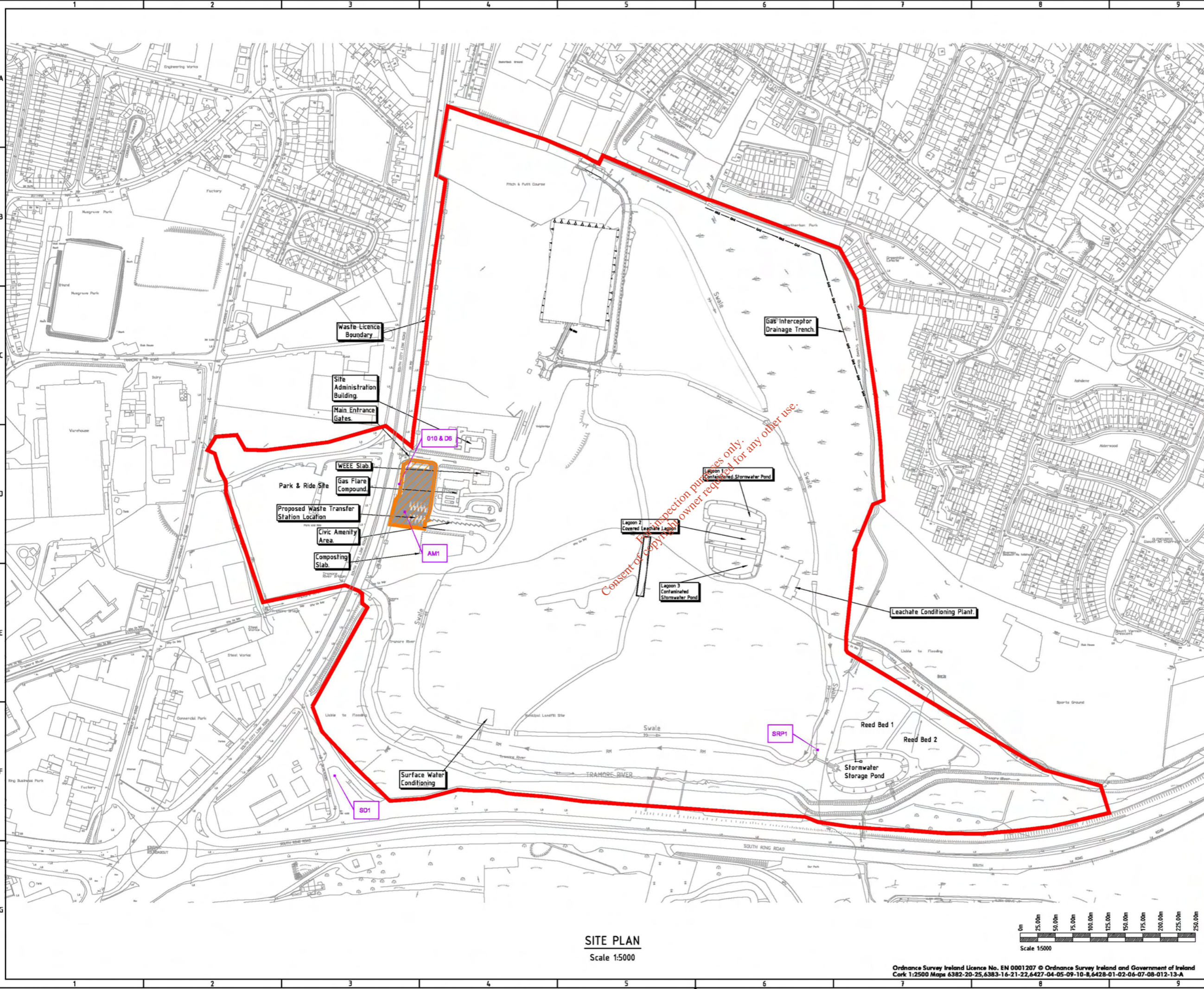
Name of Client
 CORK CITY COUNCIL

Name of Job
 KINSALE ROAD
 LANDFILL SITE
 WASTE TRANSFER STATION

Title of Drawing
 SITE LAYOUT PLAN



Scale Used	1:500
Dwg. No.	CE08-011-05-003
Rev.	A

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- Legend**
- O10 : Odour Monitoring;
D6 : Dust Monitoring
E168018 N069618
 - SD1 : Sewer Monitoring
(current monitoring W0012-02)
E167926 N069201
 - SRP1 : Stormwater/Reed Bed Monitoring
(current location under W0012-02)
E168654 N069305
 - AM1 : Air Monitoring
E168026 N069578
-  Proposed waste transfer area
-  Licenced Boundary

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Rev.	Drawn	Checked	Appd	Rev Orig	Appd Date	Description
A	GH	COC	ME	Cork	09.12.08	Issue for Waste Licence Application

Name of Client
 CORK CITY COUNCIL

Name of Job
 KINSALE ROAD LANDFILL SITE

Title of Drawing
 PROPOSED ENVIRONMENTAL MONITORING LOCATION FOR WASTE TRANSFER STATION

Scales Used
 1:5000

Dwg. No.
 CE08-011-05-014

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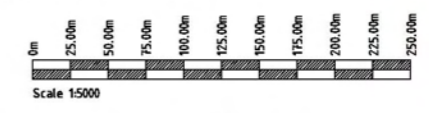
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SITE PLAN
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