



# Waste Licence Application Form

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<b>EPA Ref. N<sup>o</sup>:</b> <i>(Office use only)</i>	<input type="text"/>
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*This document does not purport to be and should not be considered a legal interpretation of the provisions and requirements of the Waste Management Acts 1996 to 2003.*

**Environmental Protection Agency**  
P.O.Box 5000, Johnstown Castle Estate, County Wexford  
Telephone: 053-60600 Fax: 053-60699  
**Environmental Protection Agency**  
Application for a Waste Licence

**WASTE MANAGEMENT ACTS 1996 to 2003**

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**INTRODUCTION**

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A valid application must contain the information prescribed in the Waste Management (Licensing) Regulations 2004 (SI No. 395 of 2004). **The applicant is strongly advised to read the *Application Guidance Notes for Waste Licensing*, available from the EPA.**

The applicant must conform to the format set out in the guidance notes for applications. Each page of the completed application form must be numbered, e.g. *page 5 of 45*, etc. Also duplicated pages from the application form should be uniquely numbered, e.g. *page 5(i) of 45*, etc. **The basic information should for the most part be supplied in the spaces given in application form** and any supporting documentation should be supplied as attachments, as specified. Consistent measurement units must be used throughout.

The applicant should note that the application form has been structured so that it requires information to be presented in an order of progressive detail.

When it is found necessary, additional information may be provided on supplementary attachments which should be clearly cross referenced with the relevant sections in the main document.

While all sections in the application form may not be relevant to the activity concerned, the applicant should look carefully through all aspects of the form and provide the required information, in the greatest possible detail.

All maps/drawings/plans must be no larger than A3 size and scaled appropriately such that they are clearly legible. In exceptional circumstances, where A3 is considered inadequate, a larger size may be requested by the Agency.

Information supplied in this application, including supporting documentation will be put on public display and open to inspection by any person. Should the applicant consider information to be confidential, this information should be submitted in a separate enclosure bearing the legend “ In the event that this information is deemed not to be held as confidential, it must be returned to .....”. In the event that information is considered to be of a confidential nature, then the nature of this information, and the reasons why it is considered confidential (with reference to the “ Access to Information on the Environment” Regulations) should be stated in the Application Form, where relevant.

**It should be noted that it will not be possible to process or determine the application until the required documents have been provided in sufficient detail and to a satisfactory standard.**

**CHECKLIST**

Articles 12 and 13 of the Waste Management (Licensing) Regulations, 2004 (S.I. No. 395 of 2004) set out the information which must, in all cases, accompany a waste licence application. In order to ensure that the application fully complies with the legal requirements of Articles 12 and 13 of the 2004 Regulations, all applicants should **complete** the following.

In each case, refer to the attachment number(s) of your application which contain(s) the information requested in the appropriate sub-article.

**Article 12(1)** In the case of an application for a waste licence, the application shall -

- (a) give the name, address and, where applicable, any telephone number and telefax of the applicant (and, if different, the operator of the facility concerned), the address to which correspondence relating to the application should be sent and, if the applicant or operator is a body corporate, the address of its registered office or principal office,

LOCATION	Application Form B.1	
CHECKED	Applicant <input checked="" type="checkbox"/>	Official <input type="checkbox"/>

- (b) give the name of the planning authority in whose functional area the relevant activity is or will be carried on,

LOCATION	Application Form B.3	
CHECKED	Applicant <input checked="" type="checkbox"/>	Official <input type="checkbox"/>

- (c) in the case of a discharge of any trade effluent or other matter (other than domestic sewage or storm water) to a sewer of a sanitary authority, give the name of the sanitary authority in which the sewer is vested or by which it is controlled,

LOCATION	Application Form B.4	
CHECKED	Applicant <input checked="" type="checkbox"/>	Official <input type="checkbox"/>

- (d) give the location or postal address (including where appropriate, the name of the townland or townlands) and the National Grid reference of the facility or premises to which the application relates,

LOCATION	Application Form B.2	
CHECKED	Applicant <input checked="" type="checkbox"/>	Official <input type="checkbox"/>

- (e) describe the nature of the facility or premises concerned, including the proposed capacity of the facility or premises, and in the case of application in respect of a landfill of waste, the requirements specified in Annex 1 of the Landfill Directive,

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<b>LOCATION</b>	E.I.S. Section 2.1	
<b>CHECKED</b>	<b>Applicant</b> <input checked="" type="checkbox"/>	<b>Official</b> <input type="checkbox"/>

(f) specify the class or classes of activity concerned, in accordance with the Third and Fourth Schedules of the Act, and in the case of an application in respect of the landfill of waste, specify the class of landfill in accordance with Article 4 of the Landfill Directive,

<b>LOCATION</b>	Application Form B.7	
<b>CHECKED</b>	<b>Applicant</b> <input checked="" type="checkbox"/>	<b>Official</b> <input type="checkbox"/>

(g) specify, by reference to the relevant European Waste Catalogue codes as presented by Commission Decision 2000/532/EC of 3 May 2000, the quantity and nature of the waste or wastes which will be treated, recovered or disposed of,

<b>LOCATION</b>	Attachment H.1	
<b>CHECKED</b>	<b>Applicant</b> <input checked="" type="checkbox"/>	<b>Official</b> <input type="checkbox"/>

(h) specify the raw and ancillary materials, substances, preparations, fuels and energy which will be utilised in or produced by the activity,

<b>LOCATION</b>	Attachment G.1	
<b>CHECKED</b>	<b>Applicant</b> <input checked="" type="checkbox"/>	<b>Official</b> <input type="checkbox"/>

(i) describe the plant, methods, processes, ancillary processes, abatement, recovery and treatment systems and operating procedures for the activity,

<b>LOCATION</b>	E.I.S. Section 2	
<b>CHECKED</b>	<b>Applicant</b> <input checked="" type="checkbox"/>	<b>Official</b> <input type="checkbox"/>

(j) provide information for the purpose of enabling the Agency to make a determination in relation to the matters specified in paragraphs (a) to (g) of section 40(4) of the Act,

<b>LOCATION</b>	Attachment L1 & L2	
<b>CHECKED</b>	<b>Applicant</b> <input checked="" type="checkbox"/>	<b>Official</b> <input type="checkbox"/>

(k) give particulars of the source, location, nature, composition, quantity, level and rate of emissions arising from the activity and, where relevant, the period or periods during which such emissions are made or are to be made,

<b>LOCATION</b>	E.I.S. Section 3 & 5	
<b>CHECKED</b>	<b>Applicant</b> <input checked="" type="checkbox"/>	<b>Official</b> <input type="checkbox"/>

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- (l) give details, and an assessment of the effects, of any existing or proposed emissions on the environment, including any environmental medium other than those into which the emissions are, or are to be made, and of proposed measures to prevent or eliminate or, where that is not practicable, to limit or abate such emissions,

<b>LOCATION</b>	E.I.S. Section 3 & 5	
<b>CHECKED</b>	<b>Applicant</b> <input checked="" type="checkbox"/>	<b>Official</b> <input type="checkbox"/>

- (m) identify monitoring and sampling points and indicate proposed arrangements for the monitoring of emissions and the environmental consequences of any such emissions,

<b>LOCATION</b>	Attachment F	
<b>CHECKED</b>	<b>Applicant</b> <input checked="" type="checkbox"/>	<b>Official</b> <input type="checkbox"/>

- (n) describe any proposed arrangements for the prevention, minimisation and recovery of waste arising from the activity concerned,

<b>LOCATION</b>	E.I.S. Section 2.5 & 2.6	
<b>CHECKED</b>	<b>Applicant</b> <input checked="" type="checkbox"/>	<b>Official</b> <input type="checkbox"/>

- (o) describe any proposed arrangements for the off-site treatment or disposal of solid or liquid wastes,

<b>LOCATION</b>	E.I.S. Section 2.5 & 2.6	
<b>CHECKED</b>	<b>Applicant</b> <input checked="" type="checkbox"/>	<b>Official</b> <input type="checkbox"/>

- (p) describe the existing or proposed measures, including emergency procedures, to prevent unauthorised or unexpected emissions and minimise the impact on the environment of any such emission,

<b>LOCATION</b>	Attachment J	
<b>CHECKED</b>	<b>Applicant</b> <input checked="" type="checkbox"/>	<b>Official</b> <input type="checkbox"/>

- (q) describe the proposed measures for the closure, restoration, remediation or aftercare of the facility concerned, after the cessation of the activity in question,

<b>LOCATION</b>	Attachment K	
<b>CHECKED</b>	<b>Applicant</b> <input checked="" type="checkbox"/>	<b>Official</b> <input type="checkbox"/>

- (r) in the case of an application in respect of the landfilling of waste, give particulars of –

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(i) such financial provision as is proposed to be made by the applicant, having regard to the provisions of Articles (7)(i) and (8)(a)(iv) of the Landfill Directive and section 53(1) of the Act, and

<b>LOCATION</b>	Not Applicable	
<b>CHECKED</b>	<b>Applicant</b> <input checked="" type="checkbox"/>	<b>Official</b> <input type="checkbox"/>

(ii) such charges as are proposed or made, having regard to the requirements of section 53A of the Act,

<b>LOCATION</b>	Not Applicable	
<b>CHECKED</b>	<b>Applicant</b> <input checked="" type="checkbox"/>	<b>Official</b> <input type="checkbox"/>

(s) state whether the activity is for the purposes of an establishment to which the European Communities (Control of Major Accident Hazards involving Dangerous Substances) Regulations, 2000 (S.I. No. 476 of 2000) apply,

<b>LOCATION</b>	Attachment B8	
<b>CHECKED</b>	<b>Applicant</b> <input checked="" type="checkbox"/>	<b>Official</b> <input type="checkbox"/>

(t) in the case of an activity which gives rise or could give rise to an emission into an aquifer containing the List I and II substances specified in the Annex to Council Directive 80/68/EEC of 17 December 1979, describe the existing or proposed arrangements necessary to give effect to Articles 3,4,5,6,7,8,9 and 10 of the aforementioned Council Directive,

<b>LOCATION</b>	Not Applicable	
<b>CHECKED</b>	<b>Applicant</b> <input checked="" type="checkbox"/>	<b>Official</b> <input type="checkbox"/>

(u) include a non-technical summary of information provided in relation to the matters specified in paragraphs (a) to (t) of this sub-article,

<b>LOCATION</b>	Attachment A	
<b>CHECKED</b>	<b>Applicant</b> <input checked="" type="checkbox"/>	<b>Official</b> <input type="checkbox"/>

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**Article 12(4)** Without prejudice to Article 13(1) and (2), an application for a licence shall be accompanied by -

(a) a copy of the relevant page of the newspaper(s) in which the notice in accordance with article 6 has been published,

<b>LOCATION</b>	Attachment B6	
<b>CHECKED</b>	<b>Applicant</b> <input checked="" type="checkbox"/>	<b>Official</b> <input type="checkbox"/>

(b) a copy of the text of the notice or notices erected or fixed in accordance with article 7,

<b>LOCATION</b>	Attachment B6	
<b>CHECKED</b>	<b>Applicant</b> <input checked="" type="checkbox"/>	<b>Official</b> <input type="checkbox"/>

(c) where appropriate, a copy of the notice given to a local planning under article 9,

<b>LOCATION</b>	Attachment B6	
<b>CHECKED</b>	<b>Applicant</b> <input checked="" type="checkbox"/>	<b>Official</b> <input type="checkbox"/>

(d) a copy of such plans (appropriately scaled and no larger than A3 size), including a site plan or plans and location map or maps, and such other particulars, reports and supporting documentation as are necessary to identify and describe, as appropriate -  
 (i) the position of the notice in accordance with article 7,

<b>LOCATION</b>	Attachment B6	
<b>CHECKED</b>	<b>Applicant</b> <input checked="" type="checkbox"/>	<b>Official</b> <input type="checkbox"/>

(ii) the point or points from which emissions are made or are to be made, and

<b>LOCATION</b>	Attachment F2	
<b>CHECKED</b>	<b>Applicant</b> <input checked="" type="checkbox"/>	<b>Official</b> <input type="checkbox"/>

(iii) the point or points at which monitoring and sampling are undertaken or are to be undertaken,

<b>LOCATION</b>	Attachment F2	
<b>CHECKED</b>	<b>Applicant</b> <input checked="" type="checkbox"/>	<b>Official</b> <input type="checkbox"/>

(e) such fee as is appropriate having regard to the provisions of articles 40 and 41.

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INCLUDED Y/N	Y	
CHECKED	Applicant <input checked="" type="checkbox"/>	Official <input type="checkbox"/>

**Article 12(5)(a) & (b)** An application shall comprise 1 signed original of the application and 2 copies in hardcopy format plus 2 copies of all files in electronic searchable PDF format on CD-Rom.

HARDCOPIES PROVIDED Y/N	Y	
CHECKED	Applicant <input checked="" type="checkbox"/>	Official <input type="checkbox"/>

CD OF PDF FILES PROVIDED? Y/N	Y	
CHECKED	Applicant <input checked="" type="checkbox"/>	Official <input type="checkbox"/>

**Article 13** Where a development requires an Environmental Impact Assessment to be carried out, 1 signed original and 2 copies in hardcopy format of the environmental impact statement plus 16 copies in electronic searchable PDF format on CD-ROM should accompany this application.

EIA REQUIRED ? Y/N	Y	
CHECKED	Applicant <input checked="" type="checkbox"/>	Official <input type="checkbox"/>
3 HARD COPIES OF EIS INCLUDED? Y/N	Y	
CHECKED	Applicant <input checked="" type="checkbox"/>	Official <input type="checkbox"/>
16 CD versions of EIS, as PDF files, PROVIDED? Y/N	Y	
CHECKED	Applicant <input checked="" type="checkbox"/>	Official <input type="checkbox"/>



## PROCEDURES

**It is recommended that pre-application consultations with the Agency are undertaken before a formal submission of the waste licence application.**

The procedure for making and processing of applications for waste licences, and for the processing of reviews of such licences, appear in the Waste Management (Licensing) Regulations 2004 (S.I. No. 395 of 2004) and are summarised below. The application fees that shall accompany an application are listed in the Second Schedule to the Regulations.

Prior to submitting an application the applicant must publish in a local newspaper, and erect on site, a notice of intention to apply. An applicant, other than a local authority in whose functional area the development is located, must also notify the Local Planning Authority, in writing, of their intention to apply.

An application for a licence must be submitted on the appropriate form (available from the Agency) with the correct fee, and should contain relevant supporting documentation as attachments. The application should be based on responses to the form, supporting written text and the appropriate use of tables and drawings. Where point source emissions occur, a system of unique reference numbers should be used to denote each emission point. These should be simple, logical, and traceable throughout the application.

The application form is divided into a number of sections of related information. The purpose of these divisions being to facilitate both the applicant and the Agency in the provision of the information and its assessment. Attachments should be clearly numbered, titled and paginated and must contain the required information as set out in the application form. Additional attachments may be included to supply any further information supporting the application. Any references made should be supported by a bibliography.

**All questions should be answered.** No waste management facility is exactly the same and hence each application will require different information. It is therefore possible that some of the sections of this application form may not be relevant to the activity concerned. **Where information is requested in the application form, which is not relevant to the application, the words “not applicable” should be clearly written on the form. The abbreviation “N/A” should not be used.**

Additional information may need to be submitted beyond that which is explicitly requested on this form. Any references made should be supported by a bibliography. The Agency may request further information if it considers that its provision is material to the assessment of the application. Advice should be sought from the Agency where there is doubt about the type of information required or the level of detail.

Information supplied in this application, including supporting documentation will be put on public display and be open to inspection by any person. **Should the applicant**

consider information to be confidential, then the nature of this information, and the reasons why it is considered confidential should be clearly stated in an attachment to the Application Form. This information should be submitted in a separate enclosure bearing the legend “In the event that this information is deemed not to be held as confidential, it must be returned to (representative of the applicant)”.

Applicants should be aware that a contravention of the conditions of a waste licence is an offence under Section 39 of the Waste Management Acts 1996 to 2003.

**The provision of information in an application for a waste licence which is false or misleading is an offence under Section 45 of the Waste Management Acts 1996 to 2003.**

*Note: Drawings. The following guidelines are included to assist applicants:*

- All drawings submitted should be titled and dated.
- They should have a **unique reference number** and should be signed by a clearly identifiable person.
- They should indicate a scale and the **direction of north**.
- All drawings should, generally, be to a scale of between 1:20 to 1:500, depending upon the degree of detail needed to be shown and the size of the facility. Drawings delineating the boundary can be to a smaller scale of between 1:1000 to 1:10560, but must clearly and accurately present the required level of detail. Drawings showing the site location can be to a scale of between 1:50 000 to 1:126 720. All drawings should, however, be A3 or less and of an appropriate scale such that they are clearly legible. Provide legends on all drawings and maps as appropriate.

**The provision of information in an application for a waste licence, which is false or misleading, is an offence under s45 of the Acts.**

**SECTION A      NON-TECHNICAL SUMMARY**

A Non-Technical Summary is to be submitted. The summary should include information on those aspects outlined in the Guidance Note and must comply with the requirements of Article 12 (1) (u) of the Waste Management (Licensing) Regulations, S.I. 395 of 2004.

The Non-Technical Summary should form **Attachment A.1**.

**SECTION B -----*****B.1 Applicant's Details***

**Name\*:** Onyx Ireland Limited

**Address:** Carrignard

Six Cross Roads Business Park

Waterford City

**Tel:** 051-333944

**Fax:** 051-333945

**e-mail:**

\* This should be the name of the applicant which is current on the date this Waste Licence Application is lodged with the Agency. It should be the name of the legal entity (which can be a limited company or a sole trader). A trading/business name is not acceptable.

***Name and Address for Correspondence***

Only application documentation submitted by the applicant and by the nominated person will be deemed to have come from the applicant.

**Name:** Onyx Ireland Limited

**Address:** Carrignard

Six Cross Roads Business Park

Waterford City

**Tel:** 051-333944

**Fax:** 051-333945

**e-mail:** mstoran@onyxgroup.ie

***Address of registered or principal office of Body Corporate (if applicable)***

**Address:** Ballymount Cross

Tallaght

Dublin 24

**Tel:** 01-4136500



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Fax: 01-4136501

e-mail:

If the applicant is a body corporate, the following information must be attached as Attachment B1:

- a) a Certified Copy of the Certificate of Incorporation or Memorandum and Article of Association;
b) the Company's Registration Number from the Companies Registry Office; and
c) a list of the Company Directors.

State the interest of the applicant in the land which is subject to the application. The applicant is (please check):

Table with 2 columns: Interest type and checkbox. Rows include Landowner, Lessee (checked), Prospective Purchaser, and Other (please specify).

Name and address of all occupiers of the land on which the Activity is situated (if different from applicant named above).

Name: Not Applicable

Address:

Tel:

Fax:

e-mail:

Name and address of the current\* owner(s) and lessees of the land, buildings and ancillary Plant on which the activity is or will be situated (if different from applicant named above). An appropriately scaled drawing(≤A3) showing the above details should be included in Attachment B1.

Name: M & M O'Shea

Address: Ballindud
Waterford City

Tel: 051-375510

Fax: 051-373285

e-mail:

\*Current at the time the application is submitted

**B.2 Location of Activity**

**Name:** Onyx Ireland Limited

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**Address\*:** Carrignard

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Six Cross Roads Business Park

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Waterford City

---

Waterford

---

**Tel:** 051-333944

---

**Fax:** 051-333945

---

**e-mail:**

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\* Include any townland

<b>National Grid Reference (8 digit 4E,4N)</b>	2583 E 1095N
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Location maps ( $\leq A3$ ), appropriately scaled, with legible grid references should be enclosed in **Attachment B.2**. The site boundary must be outlined on the map in colour.

**B.3 Planning Authority**

Give the name of the planning authority in whose functional area the activity is or will be carried out.

**Name:** Waterford City Council

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**Address:** The Mall

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Waterford City

---

Waterford

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**Tel:** 051-309900

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**Fax:** 051-870813

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Has the Planning Authority received written notification from the applicant of the application to The Environmental Protection Agency for a Waste Licence under Article 9 of the Waste Management (Licensing) Regulations?

<b>Planning Authority notified</b>	<b>Yes</b> <input checked="" type="checkbox"/>
	<b>No</b> <input type="checkbox"/>

Planning Permission relating to this application:-

<i>has been obtained</i>	<input checked="" type="checkbox"/>
<i>is being processed</i>	<input type="checkbox"/>
<i>is not yet applied for</i>	<input type="checkbox"/>
<i>is not required</i>	<input type="checkbox"/>

<b>Local Authority Planning File Reference N<sup>o</sup>:</b>	99/413 & 03/723
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**Attachment B.3** should contain *the most recent* planning permission, including a copy of *all* conditions, and the required copies of any EIS should also be enclosed. For existing activities, **Attachment B.3** should also contain copies of the most recent waste licence and any permits in force at the time of submission. Where planning permission is not required for the development, provide reasons, relevant correspondence, *etc.*

**B.4 Sanitary Authority**

In the case of a discharge of any trade effluent or other matter (other than domestic sewage or storm water) to a sewer of a sanitary authority or other body, give the name of the sanitary authority in which the sewer is vested or by which it is controlled and the waste water treatment plant (if any) to which the sewer discharges.

<b>Name:</b>	Waterford City Council
<b>Address:</b>	The Mall
	Waterford City
	Waterford
<b>Tel:</b>	051-309900
<b>Fax:</b>	051-870813

The applicant must enclose, as **Attachment B.4**, a copy of any effluent discharge licence and/or agreement between the applicant and the body with responsibility for the sewer.

**B.5 Other Authorities**

The applicant should tick the appropriate box below to identify whether the activity is located within the Shannon Free Airport Development Company (SFADCo.) area.

<b>Within SFADCo. Area</b>	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>
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The applicant should indicate the **Health Board Region** where the activity is or will be located.

<b>Name:</b>	Health Services Executive - South Eastern Region
<b>Address:</b>	Lacken
	Dublin Road
	Kilkenny
<b>Tel:</b>	056-7784100
<b>Fax:</b>	056-7784388

### ***B.6 Notices and Advertisements***

Articles 6 and 7 of the Waste Management (Licensing) Regulations 2004 requires all applicants to advertise the application in a newspaper and by way of a site notice. See *Guidance Note*.

**Attachment B.6** should contain a copy of the site notice and an appropriately scaled drawing ( $\leq A3$ ) showing its location on site. **The original application must include the complete newspaper in which the advertisement was placed.** The relevant page of the newspaper containing the advertisement should be included with the original and three copies of the application.

### ***B.7 Type of Waste Activity, Tonnages & Fees***

**B.7.1** Specify the class or classes of activity in **Table B.7.1**, in accordance with the **Third Schedule or Fourth Schedule to the Waste Management Acts 1996 to 2003**, to which the application relates (check the relevant box(es) and mark the principal activity with a 'P').

**Attachment B.7** should identify the principle activity and include a brief technical description of each of the other activities specified. **There can only be one principal activity.**

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**TABLE B.7.1 THIRD AND FOURTH SCHEDULES OF THE WASTE MANAGEMENT ACTS 1996 TO 2003**

<b>Waste Management Acts 1996 to 2003</b>			
<b>THIRD SCHEDULE Waste Disposal Activities</b>	<b>Y/N</b>	<b>FOURTH SCHEDULE Waste Recovery Activities</b>	<b>Y/N</b>
1. Deposit on, in or under land (including landfill).		1. Solvent reclamation or regeneration.	
2. Land treatment, including biodegradation of liquid or sludge discards in soils.		2. Recycling or reclamation of organic substances which are not used as solvents (including composting and other biological processes).	✓
3. Deep injection of the soil, including injection of pumpable discards into wells, salt domes or naturally occurring repositories.		3. Recycling or reclamation of metals and metal compounds.	✓
4. Surface impoundment, including placement of liquid or sludge discards into pits, ponds or lagoons.		4. Recycling or reclamation of other inorganic materials.	✓
5. Specially engineered landfill, including placement into lined discrete cells which are capped and isolated from one another and the environment.		5. Regeneration of acids or bases.	
6. Biological 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 7 to 10 of this Schedule.		6. Recovery of components used for pollution abatement.	
7. 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).		7. Recovery of components from catalysts.	
8. Incineration on land or at sea.		8. Oil re-refining or other re-uses of oil.	
9. Permanent storage, including emplacement of containers in a mine.		9. Use of any waste principally as a fuel or other means to generate energy.	
10. Release of waste into a water body (including a seabed insertion).		10. The treatment of any waste on land with a consequential benefit for an agricultural activity or ecological system.	
11. Blending or mixture prior to submission to any activity referred to in a preceding paragraph of this Schedule.	✓	11. Use of waste obtained from any activity referred to in a preceding paragraph of this Schedule.	
12. Repackaging prior to submission to any activity referred to in a preceding paragraph of this Schedule.	P	12. Exchange of waste for submission to any activity referred to in a preceding paragraph of this Schedule.	
13. 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.	✓	13. 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.	✓

**TABLE B.7.2 MAXIMUM ANNUAL TONNAGE**

The maximum annual tonnage of waste to be handled at the site should be indicated and the year to which the quantity relates indicated.

<b>Maximum Annual Tonnage (tpa)</b>	80,000
<b>Year</b>	2011

**B.7.3 FEES**

State each class of activity for which a fee is being submitted as per Part I of the Second Schedule of the Waste Management (Licensing) Regulations 2004, S.I. No. 395 of 2004. Note: two fees are required if disposal and recovery are to occur.



Waste Activity	Fee (in €)
Disposal of Waste (appropriate disposal activity 1.1 – 3.3)	10,000
Recovery of Waste (4)	6,000
	16,000

**TABLE B.7.4 (FOR A LANDFILL APPLICATION)**

STATE WHICH OF THE FOLLOWING IS RELEVANT TO THE CURRENT APPLICATION.

(a) landfill for hazardous waste	X
(b) landfill for non-hazardous waste	X
(c) landfill for inert waste	X

**B.8 SEVESO II DIRECTIVE**

State whether the activity is for the purposes of an establishment to which the European Communities (Control of Major Accident Hazards involving Dangerous substances) Regulations, 2000 (S.I. No. 476 of 2000), apply.

<b>Regulations Apply</b>	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>
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If yes, **Attachment B.8** should include the relevant details. Supporting information, as well as copies of any Hazardous Operation Studies (HAZOP) carried out for the site, should also be included in the attachment.

**SECTION C MANAGEMENT OF THE FACILITY**

Advice on completing this section is provided in the *Guidance Note*.

**C.1 Technical Competence and Site Management**

This information should form **Attachment C 1**.

Details of the applicant’s experience and qualifications, along with that of other relevant employees, should be summarised as shown below. Statements of duties, responsibilities, experience and qualifications should be submitted for each position named below. Additional information, including the management structure and an organisational chart, should be included in **Attachment C 1**.

Name	Position	Duties and Responsibilities	Experience /Qualifications
Morgan Toner	Managing Director	See Attachment C1	See Attachment C1
Hugues-Gerald Barthelemy	Southern Regional Manager	See Attachment C1	See Attachment C1
Kieran Mullins	Technical & Compliance Manager	See Attachment C1	See Attachment C1
Michael Keating	Waterford Depot Manager	See Attachment C1	See Attachment C1
Michael Storan	Environmental Officer	See Attachment C1	See Attachment C1
Tom Walsh	Operations Supervisor	See Attachment C1	See Attachment C1

**C.2 Environmental Management System**

**Attachment C 2** should contain the Environmental Management System (EMS) details required.

**C.3 Hours of Operation**

**Attachment C 3** should contain details of hours of operation for the waste facility, civic waste facilities and other facilities.

- (a) Proposed hours of operation.
- (b) Proposed hours of waste acceptance/handling.
- (c) Proposed hours of any construction and development works at the facility and timeframes (required for landfill facilities).
- (d) Any other relevant hours of operation expected.

***C.4 Conditioning Plan***

Address as **Attachment C 4**, in the case of a LANDFILL Application, and only for the review of a Landfill Waste Licence.

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**SECTION D INFRASTRUCTURE & OPERATION**

**D.1 Infrastructure**

Complete the following table detailing the site infrastructure. **Attachment D 1** should contain the appropriate documentation. Information provided should follow the sequence, and use the headings, established in Table D.1. Additional advice on completing this section is provided in the application *Guidance Note*.

Table D.1. Infrastructure		y/n	Comments
D.1.a	Site security arrangements including gates and fencing	y	Section 2.7.1 of EIS
D.1.b	Designs for site roads	y	Section 2.7.2 of EIS
D.1.c	Design of hardstanding areas	y	Section 2.7.3 of EIS
D.1.d	Plant	y	Section 2.7.4 of EIS
D.1.e	Wheel-wash	y	Section 2.7.5 of EIS
D.1.f	Laboratory facilities	n	Not applicable
D.1.g	Design and location of fuel storage areas	y	Section 2.7.6 of EIS
D.1.h	Waste quarantine areas	y	Section 2.7.7 of EIS
D.1.i	Waste inspection areas	y	Section 2.7.8 of EIS
D.1.j	Traffic control	y	Section 2.7.9 of EIS
D.1.k	Sewerage and surface water drainage infrastructure	y	Section 2.8.3 of EIS
D.1.l	All other services	y	Section 2.8.1, 2.8.2 & 2.8.4 of EIS
D.1.m	Plant sheds, garages and equipment compound	y	Section 2.7.10 of EIS
D.1.n	Site accommodation	y	Section 2.7.11 of EIS
D.1.o	A fire control system, including water supply	y	Section 2.7.12 & 2.8.2 of EIS
D.1.p	Civic amenity facilities	n	Not applicable

D.1.q	Any other waste recovery infrastructure	n	Not applicable
D.1.r	Composting infrastructure	n	Not applicable
D.1.s	Construction and Demolition waste infrastructure	y	Section 2.7.14 of EIS
D.1.t	Incineration infrastructure (if applicable). Provide information to fulfil Article 4 (2) & (3) of the Incineration of Waste Directive	n	Not applicable
D.1.u	Any other infrastructure	n	Not applicable

**D.2 Facility Operation**

In **Attachment D 2** describe the plant, methods, processes and operations of the waste facility, as required by the *Guidance Note*.

Attachment included	yes <input checked="" type="checkbox"/>	no <input type="checkbox"/>	not applicable <input type="checkbox"/>
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**LANDFILLS**

The following Sections **D3** to **D7** should **only** be completed for **Landfill Applications**. Reference should be made to the Agency landfill manual ‘**Landfill Site Design (2000)**’ when completing this section.

**D.3 Liner System**

Complete the following table regarding the liner system to be used for the landfill/landfill extension and detail the information requested as **Attachment D.3**. **Items D3c to D3g should only be completed for immediate projects only (ie Years 1 & 2)**. A schedule of Liner construction activities for the medium to long term need only be listed in item D3a below, since Condition 3 of any licences granted will provide reporting requirements for any future projects.

**TABLE D.3 LINER SYSTEM**

		y/n	Comments
D.3.a	Provide information to fulfil Annex 1 of the Landfill Directive		Not applicable
D.3.b	What type of liner system is specified?		Not applicable
D.3.c	Has a Quality Control Plan been specified?		Not applicable
D.3.d	Has a Quality Assurance Plan been specified?		Not applicable
D.3.e	Have independent, third-party supervision, testing and controls been specified?		Not applicable
			Not applicable

D.3.f	Have basal gradients for all cells and access ramps to the cells been designed?		
D.3.g	Has a leak detection survey been specified?		Not applicable

**D.4 Leachate Management**

Complete the following table detailing leachate management arrangements. Further information should be included in **Attachment D.4**.

**TABLE D.4.1 LEACHATE MANAGEMENT ARRANGEMENTS**

		y/n	Comments
D.4.a	Is there a Leachate Management Plan?		Not applicable
D.4.b	Have annual quantities of leachate been calculated?		Not applicable
D.4.c	Has the total quantity of leachate been calculated?		Not applicable
D.4.d	Have the size of the cells been specified taking account of the water balance calculations?		Not applicable
D.4.e	Has a leachate collection system been specified?		Not applicable
D.4.f	Has a leachate storage system been specified?		Not applicable
D.4.g	Has a system for monitoring the level of leachate in the waste been designed?		Not applicable
D.4.h	Is leachate recirculation proposed/practised?		Not applicable
D.4.i	Has leachate treatment on-site been specified?		Not applicable
D.4.j	Has leachate removal been specified?		Not applicable

**D 5 Landfill Gas Management**

All landfill sites should have suitable arrangements for the management of landfill gas. **Attachment D.5** should contain the appropriate documentation. Information provided should follow the sequence, and use the headings, established in Table D.5. **Items D5g to D5m should only be completed for immediate or current gas collection projects only (ie Years 1 & 2).** A schedule of gas management aspects for the medium to long term need only be listed in item D5f below, since Condition 3 of any proposed decision/licence will provide reporting requirements for any future projects.

**Table D.5. Landfill Gas Management**

		y/n	Comments
D.5a	<p><b>Is there a Landfill Gas Management Plan?</b></p> <p>Provide estimates of the volumes of landfill gas which will be produced by the waste disposed of in the site for the next 20 years, and compare to the EPER list for methane:</p>		Not applicable
D.5b	<b>Is there a passive venting system?</b>		Not applicable
D.5c	<b>Does the passive system cover all of the filled area?</b>		Not applicable
D.5d	<b>Have gas alarm systems been installed in the site buildings?</b>		Not applicable
D.5e	<b>Have measures been installed to prevent landfill gas migration (e.g. barriers)?</b>		Not applicable
D.5f	<b>Has a time-scale been proposed for the installation of landfill gas infrastructure?</b>		Not applicable
D.5g	<b>Is gas flaring undertaken at the site?</b>		Not applicable
D.5h	<b>Is there an active (i.e., pumped) landfill gas extraction system?</b>		Not applicable
D.5i	<b>Does the active system cover all of the filled area?</b>		Not applicable
D.5j	<b>Is landfill gas used to generate energy at the site?</b>		Not applicable
D.5k	<b>Have emissions from the flarestack and utilisation plant been assessed for source, composition, quantity and level and rate?</b>		Not applicable
D.5l	<b>Has a maintenance programme for the control system been specified?</b>		Not applicable
D.5m	<b>Has a condensate removal system been designed?</b>		Not applicable

**D.6 Capping System**

Complete the following table detailing the design of the capping system. **Attachment D.6** should contain the appropriate documentation. **Items D6e to D6k should be completed for immediate projects only (ie Years 1 & 2).** Condition 10 of any proposed decision/licence will provide reporting requirements for capping requirements beyond this timeframe.

**Table D.6 Capping System**

		y/n	Comments
D.6a	Has the daily cover been specified?		Not applicable
D.6b	Has the intermediate cover been specified?		Not applicable
D.6c	Has the temporary capping been specified?		Not applicable
D.6d	Has the Capping System been designed and does it meet the requirements of the Landfill Directive Annex 1 (3.3)?		Not applicable
D.6e	Does the Capping System include a flexible membrane liner?		Not applicable
D.6f	Have all capping materials been specified?		Not applicable
D.6g	Has a Method Statement for construction been produced?		Not applicable
D.6h	Has a Quality Control Plan been produced?		Not applicable
D.6i	Has a Quality Assurance Plan been produced?		Not applicable
D.6j	Has a programme for monitoring landfill stability been developed?		Not applicable
D.6k	Has a programme for monitoring landfill settlement been developed?		Not applicable



**SECTION E EMISSIONS**

**Give particulars of the source, location, nature, composition, quantity, level and rate of emissions arising from the activity and, where relevant, the period or periods during which such emissions are made or are to be made.**

*The applicant should address in particular any emission point where the substances listed in the Schedule of S.I. 394 of 2004 are emitted.*

***E.1 Emissions to Atmosphere***

Details of all point emissions to atmosphere should be supplied. Table E.1.(i) (for Landfill Gas Flare emissions) must be completed for all landfills with a flare. Complete Table E.1(ii) and E.1(iii) for all other main emission points, including stack sources (incinerator stacks, landfill gas utilisation plants, air handling unit emissions etc.). Complete Table E.1(iv) for minor/fugitive/ground emission points.

***E.2 Emissions to Surface Waters***

**Attachment E.2** Tables E.2(i) and E.2(ii) should be completed where relevant.

***E.3 Emissions to Sewer***

**Attachment E.3** Tables E.3(i) and E.3(ii) should be completed, where relevant.

***E.4 Emissions to Groundwater***

Describe the existing or proposed arrangements necessary to give effect to Articles 3,4,5,6, and 7 of Council Directive 80/68/EEC of 17 December 1979 on the protection of groundwater against pollution by certain dangerous substances.

Table E.4(i) should be completed, as relevant, for each source.

Supporting information should form **Attachment E.4**

***E.5 Noise Emissions***

Give particulars of the source, location, nature, level, and the period or periods during which the noise emissions are made or are to be made.

Table E.5(i) should be completed, as relevant, for each source.

Supporting information should form **Attachment E.5**

**E.6 Environmental Nuisances**

**Attachment E.6** should contain the appropriate documentation. Information provided should follow the sequence, and use the headings as relevant established in Table D.6. Additional advice on completing this section is provided in the *Guidance Note*.

**TABLE E.6 ENVIRONMENTAL NUISANCES**

Bird Control	<b>Control method specified</b>	yes <input type="checkbox"/>	no <input type="checkbox"/>	not applicable <input checked="" type="checkbox"/>
	<b>Attachment included</b>	yes <input type="checkbox"/>	no <input type="checkbox"/>	not applicable <input checked="" type="checkbox"/>
Dust Control	<b>Control method specified</b>	yes <input checked="" type="checkbox"/>	no <input type="checkbox"/>	not applicable <input type="checkbox"/>
	<b>Attachment included</b>	yes <input checked="" type="checkbox"/>	no <input type="checkbox"/>	not applicable <input type="checkbox"/>
Fire Control	<b>Control method specified</b>	yes <input checked="" type="checkbox"/>	no <input type="checkbox"/>	not applicable <input type="checkbox"/>
	<b>Attachment included</b>	yes <input checked="" type="checkbox"/>	no <input type="checkbox"/>	not applicable <input type="checkbox"/>
Litter Control	<b>Control method specified</b>	yes <input checked="" type="checkbox"/>	no <input type="checkbox"/>	not applicable <input type="checkbox"/>
	<b>Attachment included</b>	yes <input checked="" type="checkbox"/>	no <input type="checkbox"/>	not applicable <input type="checkbox"/>
Traffic Control	<b>Control method specified</b>	yes <input checked="" type="checkbox"/>	no <input type="checkbox"/>	not applicable <input type="checkbox"/>
	<b>Attachment included</b>	yes <input checked="" type="checkbox"/>	no <input type="checkbox"/>	not applicable <input type="checkbox"/>
Vermin Control	<b>Control method specified</b>	yes <input checked="" type="checkbox"/>	no <input type="checkbox"/>	not applicable <input type="checkbox"/>
	<b>Attachment included</b>	yes <input checked="" type="checkbox"/>	no <input type="checkbox"/>	not applicable <input type="checkbox"/>
Road Cleansing	<b>Control method specified</b>	yes <input checked="" type="checkbox"/>	no <input type="checkbox"/>	not applicable <input type="checkbox"/>
	<b>Attachment included</b>	yes <input checked="" type="checkbox"/>	no <input type="checkbox"/>	not applicable <input type="checkbox"/>

**SECTION F CONTROL & MONITORING**

**F.1: Treatment, Abatement and Control Systems**

Describe the proposed technology and other techniques for preventing or, where this is not possible, reducing emissions from the installation/facility. Details of treatment/abatement systems (air and effluent emissions) should be included, together with appropriately scaled schematics ( $\leq A3$ ) as appropriate.

For each Emission Point identified complete Table F.1 of the Annex, and include detailed descriptions and appropriately scaled schematics ( $\leq A3$ ) of all abatement systems.

**Attachment F.1** should contain any supporting information.

**F.2- F. 9. Monitoring and Sampling Points**

Programmes for environmental monitoring should be submitted as part of the application. These programmes should be provided as **Attachments F.2 to F.6** and meet the advice published by the Agency in the relevant BAT Note. For Landfills the additional **Attachments F.7 to F.8** should be completed. Furthermore for a landfill application the applicant must refer to the Agency *Landfill Monitoring Manual (2003)* for further details on monitoring requirements for proposed facilities.

Include details of monitoring/sampling locations and methods.

**F.2 Air**  
- to include Dust, Odour

<b>Monitoring Arrangements specified</b>	yes <input checked="" type="checkbox"/>	no <input type="checkbox"/>	not applicable <input type="checkbox"/>
<b>Monitoring points identified, (plus 12-figure grid references)</b>	yes <input checked="" type="checkbox"/>	no <input type="checkbox"/>	not applicable <input type="checkbox"/>
<b>Attachment included</b>	yes <input checked="" type="checkbox"/>	no <input type="checkbox"/>	not applicable <input type="checkbox"/>

**F.3 Surface Water**

Monitoring of surface water shall be carried out at not less than two points, one upstream from the waste facility and one downstream.

<b>Monitoring Arrangements specified</b>	Yes <input checked="" type="checkbox"/>	no <input type="checkbox"/>	not applicable <input type="checkbox"/>
<b>Monitoring points identified, (plus 12-figure grid references)</b>	yes <input checked="" type="checkbox"/>	no <input type="checkbox"/>	not applicable <input type="checkbox"/>
<b>Attachment included</b>	yes <input checked="" type="checkbox"/>	no <input type="checkbox"/>	not applicable <input type="checkbox"/>

**F.4 Sewer Discharge**

Monitoring of sewer discharge shall be carried out at the point specified by the local authority/Agency.

<b>Monitoring Arrangements specified</b>	yes <input checked="" type="checkbox"/>	no <input type="checkbox"/>	not applicable <input type="checkbox"/>
<b>Monitoring points identified, (plus 12-figure grid references)</b>	yes <input checked="" type="checkbox"/>	no <input type="checkbox"/>	not applicable <input type="checkbox"/>
<b>Attachment included</b>	yes <input checked="" type="checkbox"/>	no <input type="checkbox"/>	not applicable <input type="checkbox"/>

**F.5 Groundwater**

Groundwater monitoring is required at all landfill facilities; and certain other waste facilities depending on waste activities and the underlying aquifer vulnerability.

<b>Monitoring Arrangements specified</b>	yes <input type="checkbox"/>	no <input type="checkbox"/>	not applicable <input checked="" type="checkbox"/>
<b>Monitoring points identified, (plus 12-figure grid references)</b>	yes <input type="checkbox"/>	no <input type="checkbox"/>	not applicable <input checked="" type="checkbox"/>
<b>Attachment included</b>	yes <input type="checkbox"/>	no <input type="checkbox"/>	not applicable <input checked="" type="checkbox"/>

**F.6 Noise**

<b>Monitoring Arrangements specified</b>	yes <input checked="" type="checkbox"/>	no <input type="checkbox"/>	not applicable <input type="checkbox"/>
<b>Monitoring points identified, (plus 12-figure grid references)</b>	yes <input checked="" type="checkbox"/>	no <input type="checkbox"/>	not applicable <input type="checkbox"/>
<b>Attachment included</b>	yes <input checked="" type="checkbox"/>	no <input type="checkbox"/>	not applicable <input type="checkbox"/>

**F.7 Meteorological Data**

<b>Monitoring Arrangements specified</b>	yes <input type="checkbox"/>	no <input type="checkbox"/>	not applicable <input checked="" type="checkbox"/>
<b>Monitoring points identified, (plus 12-figure grid references)</b>	yes <input type="checkbox"/>	no <input type="checkbox"/>	not applicable <input checked="" type="checkbox"/>
<b>Attachment included</b>	yes <input type="checkbox"/>	no <input type="checkbox"/>	not applicable <input checked="" type="checkbox"/>

*Application for Landfills require the additional Attachments F.7 to F.8, to be completed:*

**F.8 Leachate**

<b>Monitoring Arrangements specified</b>	yes <input type="checkbox"/>	no <input type="checkbox"/>	not applicable <input checked="" type="checkbox"/>
<b>Monitoring points identified, (plus 12-figure grid references)</b>	yes <input type="checkbox"/>	no <input type="checkbox"/>	not applicable <input checked="" type="checkbox"/>
<b>Attachment included</b>	yes <input type="checkbox"/>	no <input type="checkbox"/>	not applicable <input checked="" type="checkbox"/>

**F.9 Landfill Gas**

Complete each of the following tables to show whether information has been included on aspects of landfill gas monitoring. **Attachment F.9** should also contain information to show whether the data given in Tables F.9.(a) and F.9(b) below represents actual or anticipated data. Complete Table F.9 as follows:

Table F.9 (a) Landfill Gas Monitoring for existing landfill gas flares / utilisation plants

Parameter	Concentration (mg/Nm <sup>3</sup> )	Proposed Frequency of Analysis	Information Included Y/N	Method of Analysis	Information Included Y/N
<b>Inlet</b>					
Methane (CH <sub>4</sub> ) % v/v					
Carbon dioxide (CO <sub>2</sub> ) %v/v					
Oxygen (O <sub>2</sub> ) % v/v					
<b>Outlet</b>					
Volumetric Flow Rate					
SO <sub>2</sub>					
Nox					
CO					
Particulates					
TA Luft Class I, II, III organics					
Hydrochloric acid					
Hydrogen Fluoride					

Table F.9(b) Landfill Gas Monitoring

Parameter	Proposed Frequency of Analysis		Information Included Y/N	Method of Analysis	Information Included Y/N
	Gas boreholes / vents/ wells/ perimeter locations	Facility Office			
Methane (CH <sub>4</sub> ) % v/v					
Carbon Dioxide (CO <sub>2</sub> ) % v/v					
Oxygen (O <sub>2</sub> ) % v/v					
Atmospheric Pressure					
Temperature					

Table F.9 (c) Landfill Gas Infrastructure

Equipment	Monitoring Frequency	Information Included Y/N	Monitoring Action	Information Included Y/N
Gas Collection System				
Gas Control System				

<b>Monitoring Arrangements specified</b>	yes <input type="checkbox"/>	no <input type="checkbox"/>	not applicable <input checked="" type="checkbox"/>
<b>Monitoring points identified, (plus 12-figure grid references)</b>	yes <input type="checkbox"/>	no <input type="checkbox"/>	not applicable <input checked="" type="checkbox"/>
<b>Attachment included</b>	yes <input type="checkbox"/>	no <input type="checkbox"/>	not applicable <input checked="" type="checkbox"/>

**SECTION G RESOURCES USE & ENERGY EFFICIENCY**

**G.1 Raw Materials, Substances, Preparations and Energy**

**Attachment G.1** should contain a list of all raw, product and ancillary materials, substances, preparations, fuels and energy which will be utilised in or produced by the activity. Information on any insecticides, herbicides or rat poisons etc. should also be provided with their respective data and safety sheets. The Standard Forms, provided in Annex 1, should be used in the description of these materials, substances, etc., where relevant. Additional advice on completing this section is provided in the *Guidance Note*.

<b>Attachment included</b>	yes <input checked="" type="checkbox"/> no <input type="checkbox"/> not applicable <input type="checkbox"/>
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**G.2 Energy Efficiency**

A description of the energy used in or generated by the activity must be provided in **Attachment G.2**.

<b>Attachment included</b>	yes <input checked="" type="checkbox"/> no <input type="checkbox"/> not applicable <input type="checkbox"/>
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**SECTION H MATERIALS HANDLING**

**H.1 Waste Types and Quantities – Existing & Proposed**

Provide an estimation of the quantity of waste likely to be handled in relation to each class of activity applied for. This information should be included in Table H.1 (a).

**TABLE H.1(A). QUANTITIES OF WASTE IN RELATION TO EACH CLASS OF ACTIVITY APPLIED FOR**

Waste Management Act 3rd Schedule (Disposal) Activities			Waste Management Act 4th Schedule (Recovery) Activities		
Class of Activity Applied For		Quantity (tpa)	Class of Activity Applied For		Quantity (tpa)
Class 1			Class 1		
Class 2			Class 2		27,000
Class 3			Class 3		3,000
Class 4			Class 4		5,000
Class 5			Class 5		
Class 6			Class 6		
Class 7			Class 7		
Class 8			Class 8		
Class 9			Class 9		
Class 10			Class 10		
Class 11		45,000	Class 11		
Class 12		45,000	Class 12		
Class 13		45,000	Class 13		35,000

In Table H. 1 (B) provide the annual amount of waste handled/to be handled at the facility. Additional information should be included in **Attachment H.1**. The tonnage per annum should be given of that expected for the life of the licence, with at least the next five years tonnages provided. For Landfill Review applications provide an estimate of the quantity of waste already deposited in (i) lined cells; (ii) unlined cells.

**TABLE H.1(B) ANNUAL QUANTITIES AND NATURE OF WASTE**

Year	Non-hazardous waste (tonnes per annum)	Hazardous waste (tonnes per annum)	Total annual quantity of waste (tonnes per annum)
2006	49,000	Zero	49,000
2007	55,000	Zero	55,000
2008	60,000	Zero	60,000
2009	66,000	Zero	66,000

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A detailed inventory of the types and quantities of wastes currently handled at the site and proposed to be handled should be submitted as Table H.1 (C).

**TABLE H.1 (C) WASTE TYPES AND QUANTITIES**

WASTE TYPE	TONNES PER ANNUM (existing)	TONNES PER ANNUM (proposed)	TOTAL (over life of site) tonnes
Household	6,000	25,000	Not Applicable
Commercial	25,000	48,500	Not Applicable
Sewage Sludge	Zero	Zero	Zero
Construction and Demolition	1,500	5,000	Not Applicable
Industrial Non-Hazardous Sludges	Zero	Zero	Zero
Industrial Non-Hazardous Solids	500	1,500	Not Applicable
Hazardous *(Specify detail in Table H 1.2)	Zero	Zero	Zero
Inert Waste imported for restoration purposes	COMPLETE FOR LANDFILL & CONTAMINATED LAND FACILITIES ONLY		

**\* TABLE H.1.2 HAZARDOUS WASTE TYPES AND QUANTITIES**

HAZARDOUS WASTE	DETAILED DESCRIPTION * REFERENCE SHOULD BE MADE TO THE RELEVANT EUROPEAN WASTE CATALOGUE CODES AS PRESENTED BY COMMISSION DECISION 2000/532/EC	Tonnes Per Annum (Existing)	(Tonnes Per Annum Proposed)
Waste Oil			
Oil filters			
Asbestos			
Paint and Ink			
Batteries			
Fluorescent Light Bulbs			
Contaminated Soils			
<b>OTHER HAZARDOUS WASTE (APPLICANT TO SPECIFY)</b>			



**Attachment H.1** should contain any relevant additional information.

**It should be noted that an applicant may be issued with a licence which restricts the type of wastes which may be deposited.**

### ***H.2 Waste Acceptance Procedures***

Procedures for checking waste loads as they arrive at the facility must be included. These should follow the requirements of the Agency's Waste Acceptance Manual. A copy of these procedures and other associated documentation should be included as **Attachment H.2**.

### ***H.3 Waste Handling***

Waste handling and the operating procedures used at the facility including waste treatment processes should be described in **Attachment H.3**. Included in the attachment should be information on the plant used on site and on the methods and processes for handling waste on-site. Special requirements hold for contaminated soil facilities, see *Guidance Note*.

**In addition, an application for a Landfill requires Section H.3.a to be completed:**

#### ***H.3a Waste Handling at the Landfill Facility***

State whether all waste will be subject to treatment prior to landfilling. Provide information as to the quantities of biodegradable municipal waste and how the targets of the Landfill Directive (1999/31/EC) relating to that waste type are to be achieved. In particular describe how the following will be achieved:

- (a) a reduction by 16/07/06 to 75% by weight of the total amount of biodegradable municipal waste produced in 1995 or the latest year before 1995 for which standardised Eurostat data is available;
- (b) a reduction by 16/07/09 to 50% by weight of the total amount of biodegradable municipal waste produced in 1995 or the latest year before 1995 for which standardised Eurostat data is available;
- (c) a reduction by 16/07/16 to 35% by weight of the total amount of biodegradable municipal waste produced in 1995 or the latest year before 1995 for which standardised Eurostat data is available;
- (d) Evidence should be provided to show that energy will be used efficiently.

### **H.4 Waste Arisings**

Waste Arisings should be considered for all contaminated soil applications. Details of all waste materials generated on the site including, name, description and nature as well as the source(s) should be identified. The quantities of each type of waste generated on an annual/monthly basis should be calculated and stated in Tables H.1(i) and H. 1(ii) of the application form. Applicants should also provide conversion factors used to relate volume (m<sup>3</sup>) and tonnage (t) for their waste stream.

**SECTION I EXISTING ENVIRONMENT & IMPACT OF THE FACILITY**

Detailed information is required to enable the Agency to assess the existing environment. This section requires the provision of information on the ambient environmental conditions at the site prior to the commencement of waste management activities or prior to the receipt of a review application.

Where development is proposed to be carried out, being development which is of a class for the time being specified under Article 24 (First Schedule) of the Environmental Impact Assessment Regulations, the information on the state of the existing environment should be addressed in the EIS. **In such cases, it will suffice for the purposes of this section to provide adequate cross-references to the relevant sections in the EIS.**

I.1. Assessment of atmospheric emissions

Describe the existing environment in terms of air quality with particular reference to ambient air quality standards.

Provide a statement whether or not emissions of main polluting substances (as defined in the Schedule of S.I. 394 of 2004) to the atmosphere are likely to impair the environment.

Give summary details and an assessment of the impacts of any existing or proposed emissions on the environment, including environmental media other than those into which the emissions are to be made.

**Attachment I.1** should also contain full details of any dispersion modelling of atmospheric emissions from the activity, where required.

I.2. Assessment of Impact on Receiving Surface Water

Describe the existing environment in terms of water quality with particular reference to environmental quality standards or other legislative standards. Table I.2(i) should be completed

Provide a statement whether or not emissions of main polluting substances (as defined in the Schedule of S.I. 394 of 2004) to water are likely to impair the environment.

Give summary details and an assessment of the impacts of any existing or proposed emissions on the environment, including environmental media other than those into which the emissions are to be made.

Full details of the assessment and any other relevant information on the receiving environment should be submitted as **Attachment I.2.**

I.3. Assessment of Impact of Sewage Discharge.

Give summary details and an assessment of the impacts of any existing or proposed emissions on the environment, including environmental media other than those into which the emissions are to be made.

Full details of the assessment and any other supporting information should form **Attachment I.3.**

I.4 Assessment of impact of ground/groundwater emissions

The scope and detail of this assessment will depend to a large extent on the extent and type of ground emissions at any site, which in turn are related to the risk. Details should be included in **Attachment I.4.** Comprehensive guidelines are contained in the *Application Guidance Note*, and include particular requirements for landfill and brownfield facilities.

Describe the existing groundwater quality. Tables I.4(i) should be completed.

I.5 Ground and/or groundwater contamination

Summary details of known ground and/or groundwater contamination, historical or current, on or under the site must be given.

Full details including all relevant investigative studies, assessments, or reports, monitoring results, location and design of monitoring installations, appropriately scaled plans/drawings ( $\leq A3$ ), documentation, including containment engineering, remedial works, and any other supporting information should be included in **Attachment I.5.**

I.6 Noise Impact.

Give details and an assessment of the impacts of any existing or proposed emissions on the environment, including environmental media other than those into which the emissions are to be made.

Ambient noise measurements

Complete Table I.6(i) in relation to the information required below:

- (i) State the maximum Sound Pressure Levels which will be experienced at typical points on the boundary of the operation. (State sampling interval and duration)
- (ii) State the maximum Sound Pressure Levels which will be experienced at typical noise sensitive locations, outside the boundary of the operation.
- (iii) Give details of the background noise levels experienced at the site in the absence of noise from this operation.

Prediction models, appropriately scaled maps ( $\leq A3$ ), diagrams and supporting documents, including details of noise attenuation and noise proposed control measures to be employed, should form **Attachment I.6**.

I.7 Assessment of Ecological Impacts & Mitigation Measures

The ecology of the site and the surrounding area should be assessed in the vicinity of the largescale waste facilities such as landfill or incinerator developments. An assessment of the ecology should form **Attachment I.7**. Comprehensive guidelines are contained in the *Application Guidance Note*

**SECTION J ACCIDENT PREVENTION & EMERGENCY RESPONSE**

Describe the existing or proposed measures, including emergency procedures, to minimise the impact on the environment of an accidental emission or spillage.

Also outline what provisions have been made for response to emergency situations outside of normal working hours, i.e. during night-time, weekends and holiday periods.

Describe the arrangements for abnormal operating conditions including start-up, leaks, malfunctions or momentary stoppages.

Supporting information should form **Attachment J**.

<b>Attachment included</b>	yes <input checked="" type="checkbox"/>	no <input type="checkbox"/>	not applicable <input type="checkbox"/>
----------------------------	---	-----------------------------	---

**SECTION K REMEDIATION, DECOMMISSIONING, RESTORATION AND AFTERCARE**

Describe the existing or proposed measures to minimise the impact on the environment after the activity or part of the activity ceases operation, including provision for post-closure care of any potentially polluting residuals.

For Landfill Applications, capping proposals are required, and reference should be made to the *Landfill Manual on 'Restoration and Aftercare'* published by the Agency, when completing this section.

<b>Attachment included</b>	yes <input checked="" type="checkbox"/>	no <input type="checkbox"/>	not applicable <input type="checkbox"/>
----------------------------	---	-----------------------------	---

**SECTION L STATUTORY REQUIREMENTS****L. 1 Section 40(4) WMA**

Indicate how all the requirements of Section 40(4)[(a) to (i)] of the Waste Management Acts 1996 to 2003 will be met.

Applicants should also describe how the proposed facility will comply with the requirements of BAT. In particular reference should be made to the considerations referred to in Annex IV of Council Directive 96/61/EC concerning integrated pollution prevention and control.

**Attachment L.1** should contain the documentation requested above, along any relevant additional information.

<b>Attachment included</b>	yes <input checked="" type="checkbox"/>	no <input type="checkbox"/>	not applicable <input type="checkbox"/>
----------------------------	---	-----------------------------	---

**L.2 Fit and Proper Person**

The WMA in Section 40(4)(d) specifies that the Agency shall not grant a licence unless it is satisfied that the applicant (if the applicant is not a local authority) is a fit and proper person. Section 40(7) of the WMA specifies the information required to enable a determination to be made by the Agency.

- Indicate whether the applicant or other relevant person has been convicted under the Waste Management Acts 1996 to 2003, the EPA Act 1992 and 2003, the Local Government (Water Pollution) Acts 1977 and 1990 or the Air Pollution Act 1987.

WASTE Application Form

- Provide details of the applicant’s technical knowledge and/or qualifications, along with that of other relevant employees (Link to Section C.1 of the application).
- Provide information to show that the person is likely to be in a position to meet any financial commitments or liabilities that may have been or will be entered into or incurred in carrying on the activity to which the application relates or in consequence of ceasing to carry out that activity (Link to Section K of the application).

Supporting information should be included as **Attachment L 2** with reference to where the information can be found in the application.

<b>Attachment included</b>	<b>yes</b> <input checked="" type="checkbox"/>	<b>no</b> <input type="checkbox"/>	<b>not applicable</b> <input type="checkbox"/>
----------------------------	--	------------------------------------	--

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**SECTION M DECLARATION**

**Declaration**

I hereby make application for a licence / revised licence, pursuant to the provisions of the Waste Management Acts 1996 to 2003 and Regulations made thereunder.

I certify that the information given in this application is truthful, accurate and complete.

I give consent to the EPA to copy this application for its own use and to make it available for inspection and copying by the public, both in the form of paper files available for inspection at EPA and local authority offices, and via the EPA's website. This consent relates to this application itself and to any further information, submission, objection, or submission to an objection whether provided by me as Applicant, any person acting on the Applicant's behalf, or any other person.

**Signed by :** \_\_\_\_\_ **Date :** \_\_\_\_\_  
*(on behalf of the organisation)*

**Print signature name:** \_\_\_\_\_

**Position in organisation :** \_\_\_\_\_

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*Company stamp or seal:*

# ATTACHMENT A1

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The following documents are included overleaf:

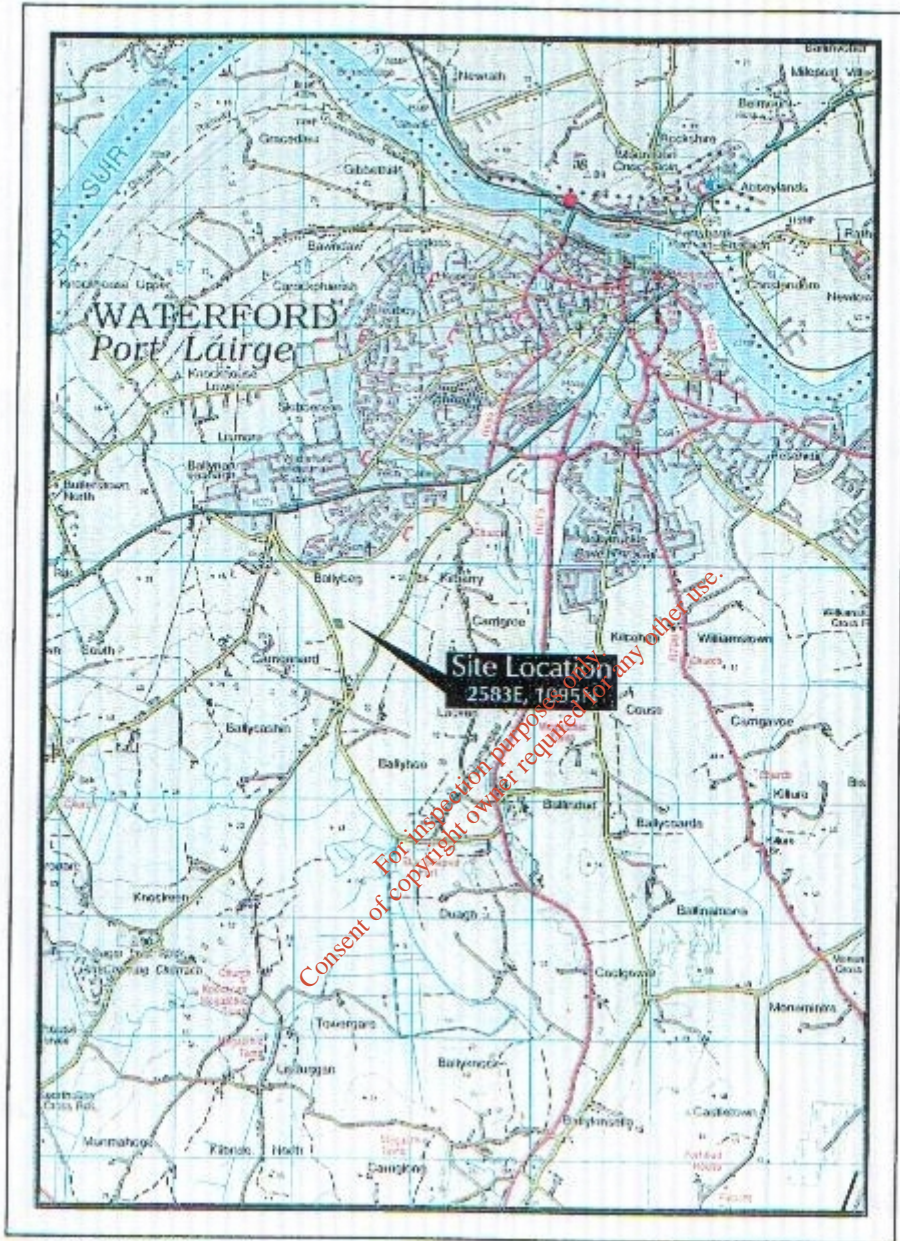
Non Technical Summary

Site Location Map A.1.a

Site Plan B.1.a Rev1

Figure F.2.a Environmental Monitoring Points

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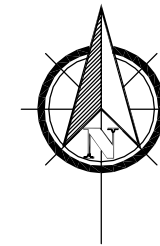


Fehily Timoney & Company

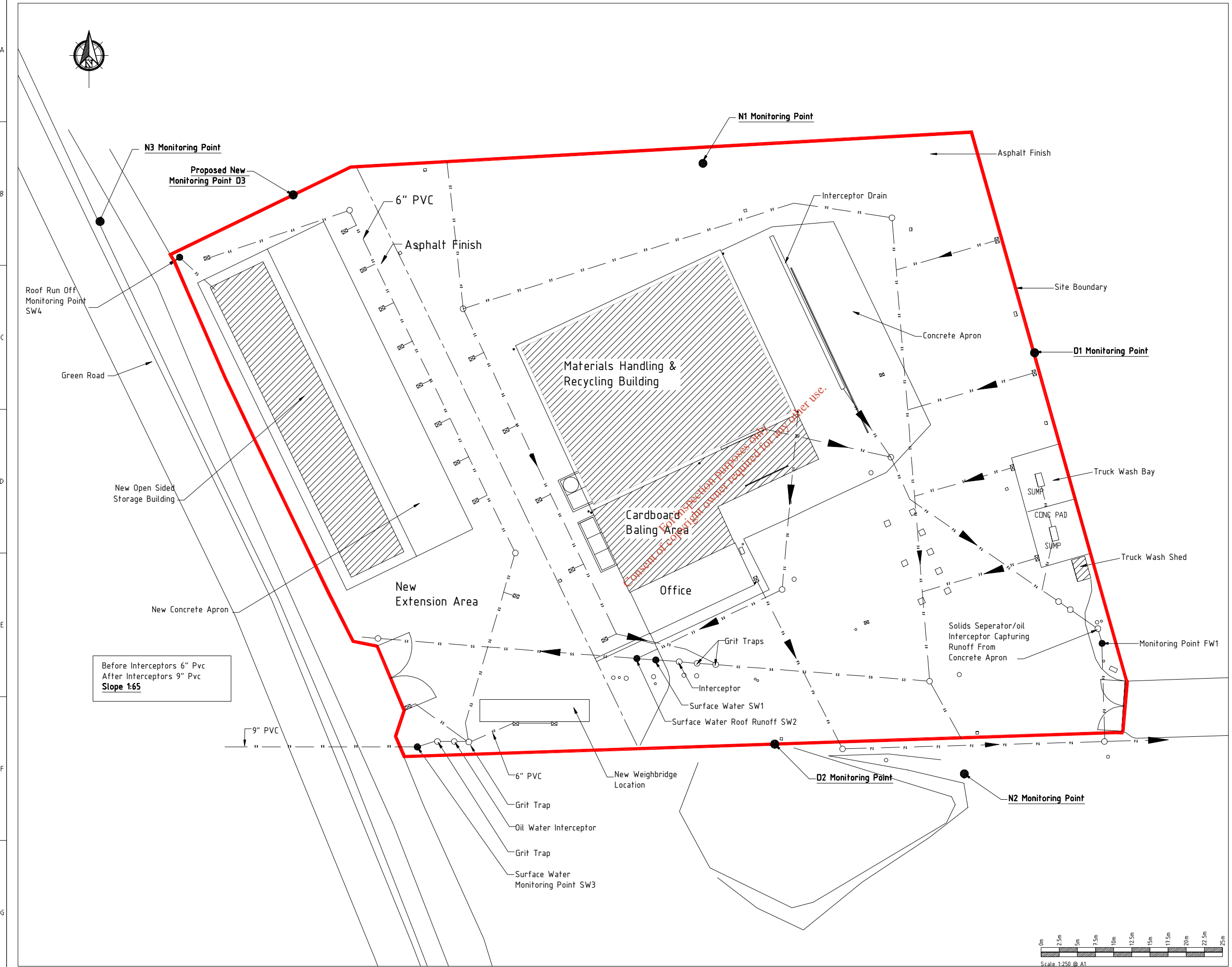
Site Location Map Figure A1-a

# SITE PLAN

Scale 1:500



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Do not scale. The figured dimensions only. If in doubt - Ask!



**Surface Water Monitoring Points**

- SW1 258320 E, 109451 N
- SW2 258317 E, 109451 N
- SW3 258286 E, 109438 N
- SW4 258253 E, 109506 N

**Foul Water Monitoring Points**

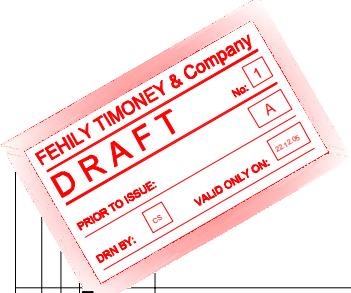
- FW1 258381 E, 109453 N

**Dust Monitoring Points**

- D1 258372 E, 109493 N
- D2 258336 E, 109440 N
- D3 258269 E, 109514 N

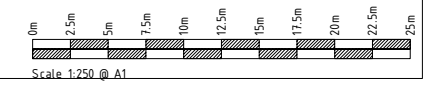
**Noise Monitoring Points**

- N1 258326 E, 109519 N
- N2 258362 E, 109435 N
- N3 258243 E, 109511 N



Rev.	Drawn	Checked	Approved	Date	Description
					Name of Client ONX Ireland Ltd.
					Name of Job EPA Regulatory Report
					Title of Drawing Environmental Monitoring Points
					Scales Used 1:250 @ A1, 1:500 @ A3
					Dwg. No. 2004-115-05-Fig7
					Rev. A

**FEHILY  
& COMPANY**  
CONSULTANTS IN  
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ENVIRONMENTAL  
SCIENCES  
CORE HOUSE, POULADUFF Rd, CORK, IRELAND.  
Phone: +353-21-4964133, Fax: +353-21-4964464, Email: info@ftco.ie  
WEB SITE: www.fehilytimoney.ie



# ATTACHMENT B1

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**(1) Company's Registration Number**

The company's registration number from the Company's Registered Office is 097949.

**(2) List of Directors**

The following are the company's directors:

Mr. Cyrille du Peloux	Chairman
Mr. Morgan Toner	Managing Director
Mr. Michel Gourvennec	Director
Mr. Pascal Gennevieve	Director
Mr. Axel de Saint-Quentin	Director
Mr. Robert Stewart	Director
Mr. Tom Neville	Company Secretary

**(3) Certificate of Incorporation and Articles of Association for the Company**

These documents are also included overleaf.

(4) Figure B.1.b Ownership Plan is also included overleaf

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THE COMPANIES ACTS, 1963 to 1999

---

COMPANY LIMITED BY SHARES

---

MEMORANDUM

and

ARTICLES OF ASSOCIATION

of

IPODEC IRELAND LIMITED

(Incorporating all amendments up to and including  
1<sup>st</sup> September, 2000)

---

Incorporated 4th November, 1983

---

**We certify that the within is  
a true copy of the original**

  
A&L Goodbody

Date: 19/10/2003

A & L Goodbody,  
International Financial Services Centre,  
North Wall Quay,  
Dublin 1.  
EAMA2483

*peg*

Number 97949

# Certificate of Incorporation on change of name

I hereby certify that


**IPODEC IRELAND LIMITED**

having, by a Special Resolution of the Company,  
and with the approval of the Minister for Enterprise,  
Trade and Employment, changed its name, is now  
incorporated as a limited company under the name

**ONYX IRELAND LIMITED**

and I have entered such name on the Register accordingly.

Given under my hand at Dublin, this  
Friday, the 4th day of June, 2004

  
for Registrar of Companies

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# SITE OWNERSHIP PLAN

Scale 1:500

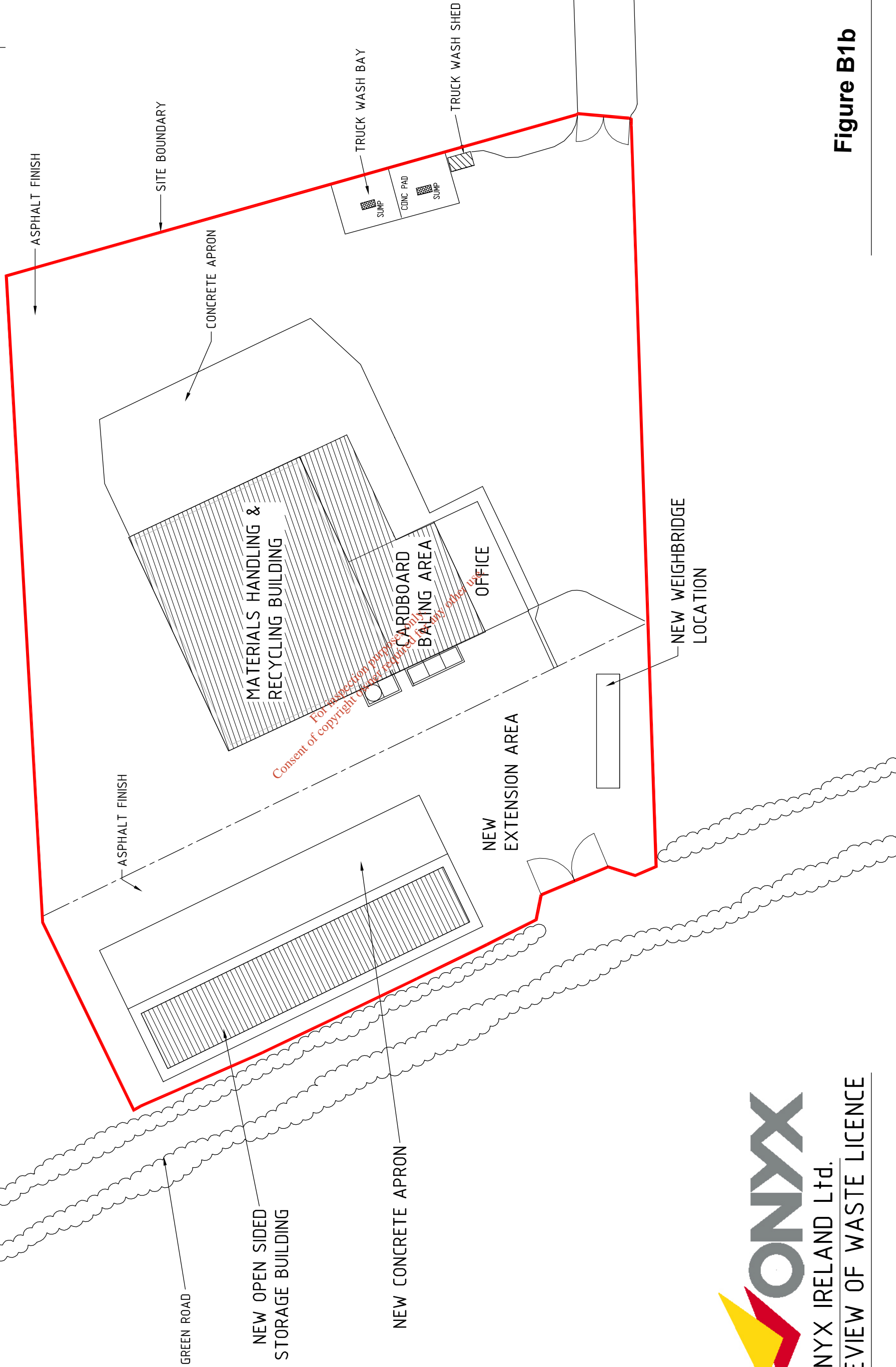
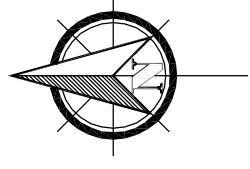


Figure B1b

# ATTACHMENT B2

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Please find overleaf the following drawings:

Site Plan – Figure B1a Revision 1

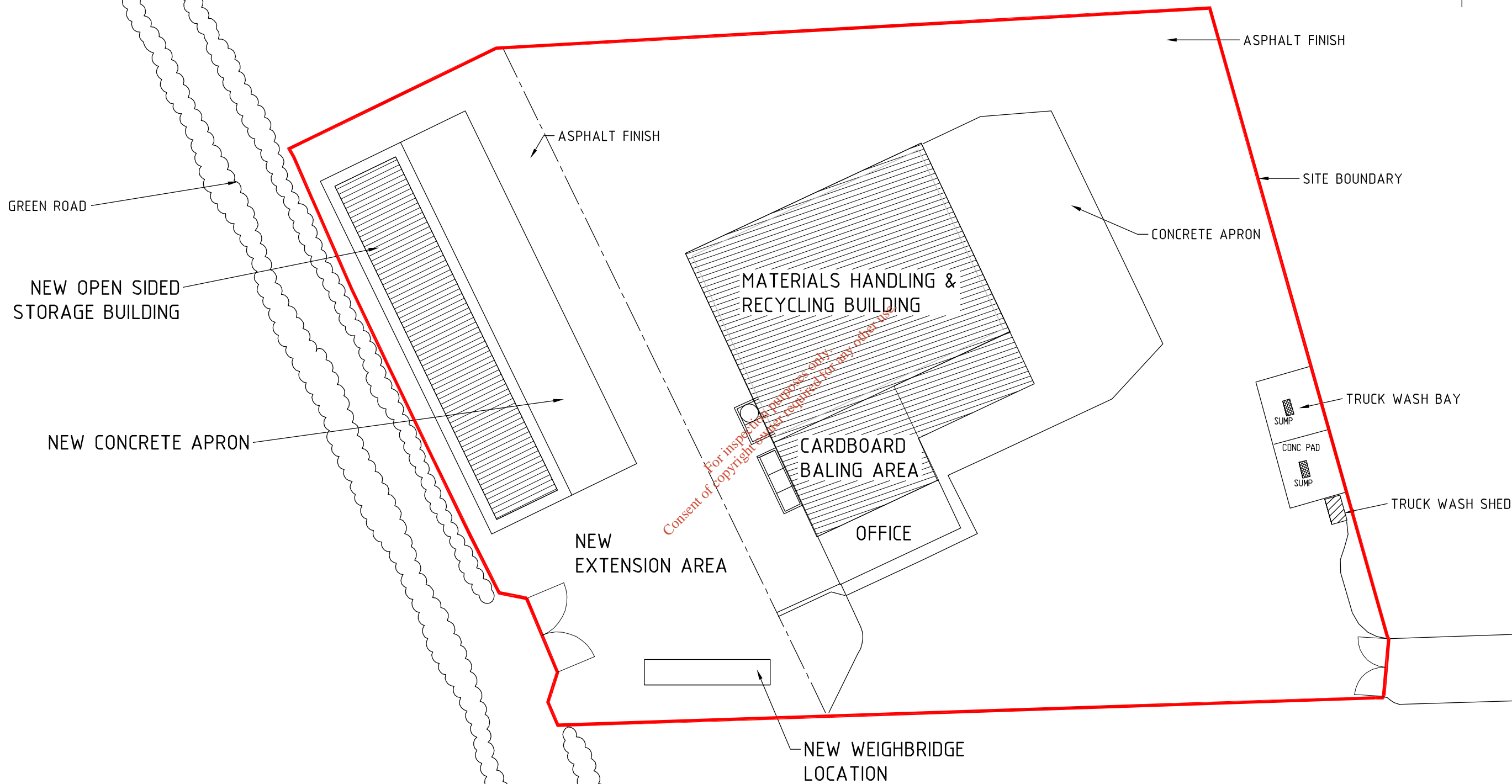
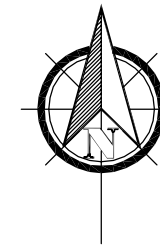
Location Map – Figure A1a

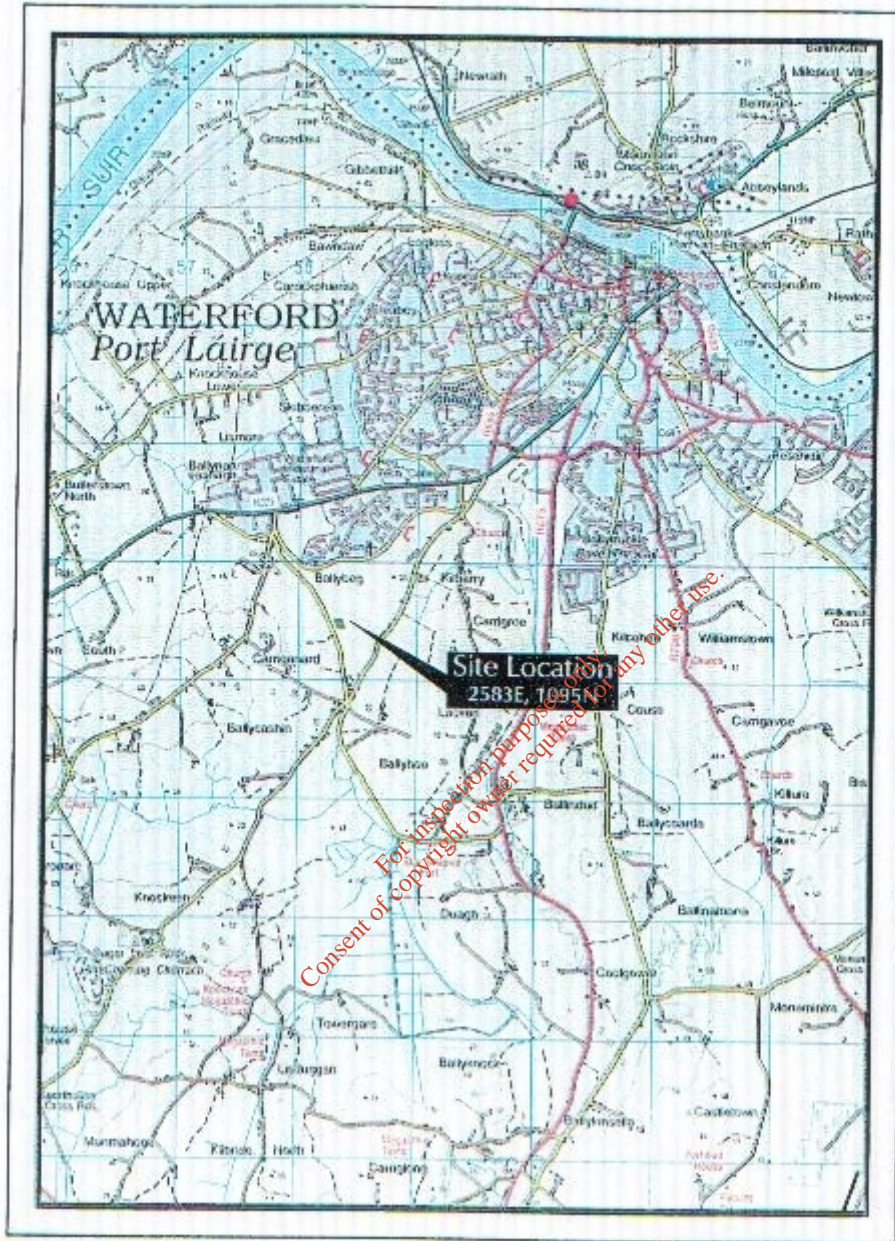
Services Plan – Figure B3

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# SITE PLAN

Scale 1:500

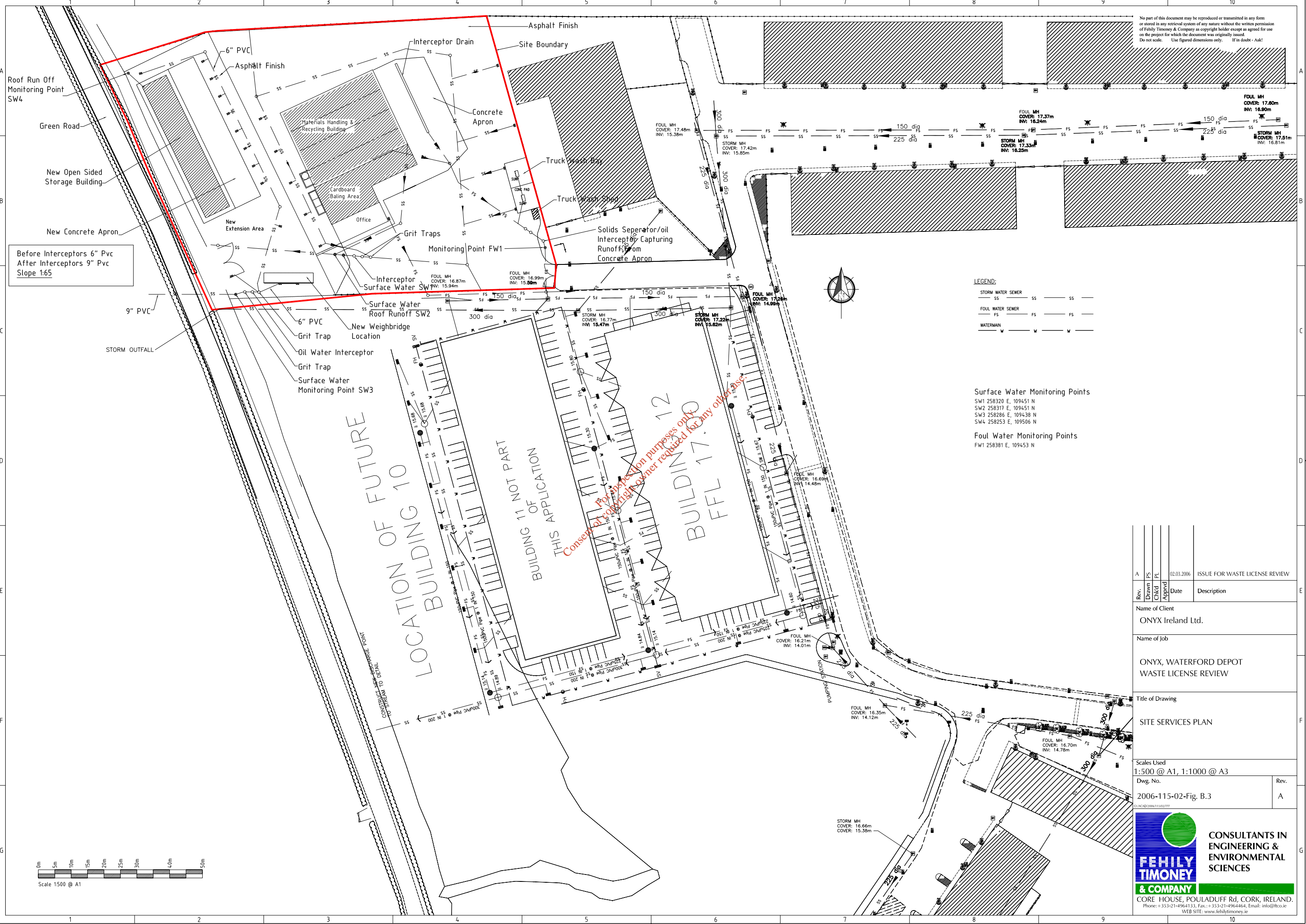




Fehily Timoney & Company

Site Location Map Figure A1-a

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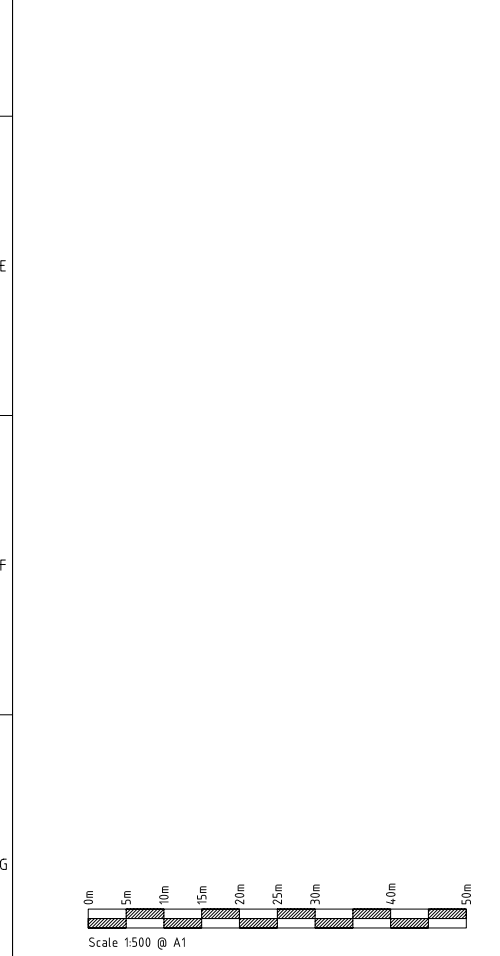


**LEGEND:**  
 STORM WATER SEWER: SS — SS — SS —  
 FOUL WATER SEWER: FS — FS — FS —  
 WATERMAIN: W — W — W —

**Surface Water Monitoring Points**  
 SW1 258320 E, 109451 N  
 SW2 258317 E, 109451 N  
 SW3 258286 E, 109438 N  
 SW4 258253 E, 109506 N

**Foul Water Monitoring Points**  
 FW1 258381 E, 109453 N

Before Interceptors 6" Pvc  
 After Interceptors 9" Pvc  
 Slope 1:65



Rev.	Drawn	PS	CHKD	PL	Date	Description
A					02.03.2006	ISSUE FOR WASTE LICENSE REVIEW
Name of Client						
ONYX Ireland Ltd.						
Name of Job						
ONYX, WATERFORD DEPOT WASTE LICENSE REVIEW						
Title of Drawing						
SITE SERVICES PLAN						
Scales Used						
1:500 @ A1, 1:1000 @ A3						
Dwg. No.						
2006-115-02-Fig. B.3						
Rev.						
A						

**CONSULTANTS IN ENGINEERING & ENVIRONMENTAL SCIENCES**

**FEHILY TIMONEY & COMPANY**

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 WEB SITE: www.fehilytimoney.ie

# ATTACHMENT B3

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## **B3**

### **Planning Permissions**

Please find overleaf planning permission in relation to the site in Waterford.

### **EIS**

The Environmental Impact Study will be included as a separate folder.

### **Waste License**

Waste License 177-2 was issued by the EPA and is included overleaf.

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BARDAS PHORTLAIRGE

LOCAL GOVERNMENT  
(PLANNING & DEVELOPMENT)  
ACTS, 1963 TO 1999

WATERFORD CORPORATION

NOTIFICATION OF DECISION TO GRANT - SUBJECT TO CONDITIONS

TO: M & M O'Shea  
C/O John Santry  
Belvedere,  
Newtown,  
Waterford.

PLANNING REGISTER NUMBER : 99/413

VALID APPLICATION RECEIVED: 22/10/1999

FURTHER INFORMATION RECEIVED DATE ::

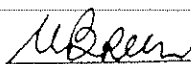
In pursuance of the powers conferred upon them by the above-mentioned Acts, Waterford Corporation have by Order dated 24/02/2000 decided to GRANT permission for development of land, namely:-

build a workshop (156m<sup>2</sup> approx), warehouse (850m<sup>2</sup> approx) and offices (198m<sup>2</sup> approx) together with associated site development works and associated services installation all on site to the N.E. of proposed ring road at Carriganard Six Cross Roads Kilbarry, Waterford.

Subject to the 7 conditions and reasons therefor set out in the attached schedule.

If there is no appeal against the said decision, a final grant notification in accordance with the decision will be issued after the expiration of the period within which an appeal may be made to An Bord Pleanala. (See footnote).

It should be noted that until a grant of permission/approval has been issued the development/retention in question is NOT AUTHORISED.



ASSISTANT TOWN CLERK

Date: 24/02/2000

N.B. READ CAREFULLY NOTES ON REVERSE SIDE

WORKSHOP/WAREHOUSE AND OFFICE AT CARRIGANARD, WATERFORD

SCHEDULE

CONDITION

1. The development shall be carried out in accordance with the plans and particulars lodged with the Planning Authority on 23<sup>rd</sup> December 1999, save as the conditions hereunder otherwise require.

REASON

1. In the interests of clarity.

CONDITION

2. A building line of 10m shall be maintained along the eastern boundary with the Outer Ring route reservation.

REASON

2. It is considered that the proposed building line is inadequate and that a 10m minimum building line is reasonable having regard to a scale and status of the proposed road.

CONDITION

3. Prior to the commencement of development details of the following shall be submitted to and be to the satisfaction of the Planning Authority :-
  - (A) A detailed landscaping and planting scheme for the site.
  - (B) Details of the proposed external finishes of both buildings
  - (C) Details of any proposed signsNo development shall commence until the consent of the Planning Authority on these matters has been received.

REASON

3. In the interests of protecting the visual amenities of the area.

CONDITION

4.
  - (A) The area of land within the curtilage of the site shall be kept free from refuse/litter arising from the use of the site for industrial purposes.
  - (B) No open storage of raw materials, goods or waste shall take place.

REASON

4. In the interests of protecting the visual amenities of the area.

CONDITION

5. Prior to commencement of development, the developer shall pay a contribution of £4,955 to Waterford Corporation in respect of road improvements in the area, which facilitate the proposed development. The amount payable will be determined by the then current rates in the Waterford City Development Plan, subject to the provision of repayments stipulated in Section 26 (2) (h) of the Local Government (Planning & Development ) Act 1963.

REASON

5. Road improvements in the area carried out by Waterford Corporation will facilitate the proposed development

CONDITION

6. Prior to commencement of development the developer shall pay a contribution to Waterford Corporation in respect of recent and proposed improvements to the public mains water supply system which will facilitate the proposed development. The present value of the contribution is £4,247. The amount payable will be determined by the then current rates in the Waterford City Development Plan, subject to the provision of repayments stipulated in Section 26 (2) (h) of the Local Government (Planning & Development ) Act, 1963.

REASON

6. Recent and proposed improvements to the public mains water supply system will facilitate the proposed development.

CONDITION

7. Prior to commencement of development the developer shall pay a contribution to Waterford Corporation in respect of recent and proposed improvements to the public main drainage system which will facilitate the proposed development. The present value of the contribution is £4,247. The amount payable will be determined by the then current rates in the Waterford City Development Plan, subject to the provision of repayments stipulated in Section 26(2)(h) of the Local Government (Planning & Development) Act, 1963.

REASON

7. Recent and proposed improvements to the public mains drainage system will facilitate the proposed development.

WATERFORD CITY COUNCIL

NOTIFICATION OF A GRANT OF A PERMISSION / OUTLINE / APPROVAL

TO: Deltona Ltd,  
M Ahearne & Assoc Ltd,  
Project Managers/Engineers  
No. 4 Dr. Croke Place  
Clonmel

Co. Tipperary

PLANNING REGISTER NUMBER: 03/723

APPLICATION RECEIPT DATE: 30/12/2003

In pursuance of the powers conferred upon them by the above-mentioned Acts, Waterford City Council have by Order dated 04/06/2004 granted PERMISSION to the above named, for the development of land namely:-

extension to the existing waste transfer facility operated by Ipodec Ireland Ltd. The development will comprise of: (A) The increase in the site area (B) The construction of a new vehicular entrance from the Green Road. (C) The relocation of the existing weighbridge. (D) The construction of an open sided transfer and storing facility. (E) Site development works necessary to facilitate the development. It is noted that the activities undertaken within the proposed development are subject to a Waste Licence at Site 14, Six Cross Rds. Buss. Park, Kilbarry,

Subject to the 3 conditions set out in the Schedule attached.

Signed on behalf of Waterford City Council:

for DIRECTOR, PLANNING & ENVIRONMENT

Date: 04/06/2004

(It should be noted that where OUTLINE permission only is granted same is subject to the subsequent Approval of the Planning Authority and until such Approval has been obtained to detailed plans of the development proposed, the development is NOT AUTHORISED)

LOCAL GOVERNMENT (PLANNING & DEVELOPMENT) ACTS 2000-2002

File Ref. No: 03/723

RE: Permission to extend the existing waste transfer facility operated by IPODEC Ireland Ltd. The development will comprise of A) The increase in the site area B) The construction of a new vehicular entrance from the Green Road. C) The relocation of the existing weighbridge. D) Construction of an open sided transfer and storing facility. E) Site development works necessary to facilitate the development. It is noted that the activities undertaken within the proposed development are subject to Waste Licence at Site 14, Six Cross Roads Business Park, Waterford.

Decision: Pursuant to the Planning & Development Acts it is recommended for the reason set out in the First Schedule hereto, to grant permission for the said development in accordance with the said plans and particulars, subject to the conditions specified in the Second Schedule hereto.

First Schedule

Having regard to the existing use of the premises to the plans submitted and to the scale of the proposed development it is considered that subject to compliance with the conditions outlined in the Second Schedule, the proposed development would be in accordance with the proper planning and sustainable development of the area.

Second Schedule

Condition

1. The proposed development shall be carried out in accordance with the plans and details received on 30/12/03 and with the revised site layout plan and details received on 12/03/04 unless otherwise altered by way of condition below

Reason

1. In the interests of clarity and the proper planning and sustainable development of the area.

Condition

2. Before any development commences on site the following details shall be submitted and agreed in writing with the Planning Authority:

- (a) a detailed landscaping plan, prepared by a qualified landscape architect, to include for the screening of the entire western and northern site boundaries and part of the southern boundary.
- (b) Proposals for treatment of entrance.
- (c) External finishes to transfer a storing facility.

Reason

- 2. In the interests of visual amenity and the proper planning and sustainable development of the area.

Condition

- 3. Proposed boundary wall shall be capped and plastered.

Reason

- 3. In the interests of visual amenity and the proper planning and sustainable development of the area.

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Headquarters  
P.O. Box 3000  
Johnstown Castle Estate  
County Wexford  
Ireland

**WASTE LICENCE**

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<b>Waste Licence Register Number:</b>	177-2
<b>Licensee:</b>	Onyx Ireland Limited
<b>Location of Facility:</b>	Carrignard, Six Cross Roads Business Park, Waterford City

# ***INTRODUCTION***

This introduction is not part of the licence and does not purport to be a legal interpretation of the licence.

This licence is for the operation of a non-hazardous waste transfer station located at Carrignard, Six Cross Roads Business Park, Waterford City. The waste intake is limited to 31,250 tonnes per annum of non-hazardous waste. The waste types to be accepted at the facility include commercial, industrial, household and a small quantity of construction and demolition waste. The licence does not allow for the acceptance of hazardous or liquid waste.

The licence restricts waste processing to inside the waste transfer station. The recyclable wastes are picked out and the cardboard, plastics, wood and metal are stock piled for transfer to appropriate recyclable facilities. Non-recyclable waste is bulk loaded and transferred to an off-site licensed disposal facility.

The licensee must manage and operate the facility to ensure that the activities do not cause environmental pollution. The licensee is required to carry out regular environmental monitoring and submit all monitoring results, and a wide range of reports on the operation and management of the facility to the Agency.

The licence sets out in detail the conditions under which Onyx Ireland Limited will operate and manage this facility.

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## *Glossary of Terms*

All terms in this licence should be interpreted in accordance with the definitions in the Waste Management Acts 1996 to 2005, (the Acts), unless otherwise defined in this section.

<b>Aerosol</b>	A suspension of solid or liquid particles in a gaseous medium.
<b>Adequate lighting</b>	20 lux measured at ground level.
<b>AER</b>	Annual Environmental Report.
<b>Agreement</b>	Agreement in writing.
<b>Annually</b>	At approximately twelve monthly intervals.
<b>Attachment</b>	Any reference to Attachments in this licence refers to attachments submitted as part of this licence application.
<b>Application</b>	The application by the licensee for this licence.
<b>Appropriate facility</b>	A waste management facility, duly authorised under relevant law and technically suitable.
<b>BAT</b>	Best Available Techniques.
<b>Bi-annually</b>	All or part of a period of six consecutive months.
<b>Biennially</b>	Once every two years.
<b>Biodegradable waste</b>	Any waste that is capable of undergoing anaerobic or aerobic decomposition, such as food, garden waste, sewage sludge, paper and paperboard.
<b>BOD</b>	5 day Biochemical Oxygen Demand.
<b>CEN</b>	Comité Européen De Normalisation – European Committee for Standardisation.
<b>COD</b>	Chemical Oxygen Demand.
<b>Commercial Waste</b>	As defined in Section 5(1) of the Waste Management Acts 1996 to 2005.
<b>Construction and Demolition Waste</b>	Wastes that arise from construction, renovation and demolition activities: Chapter 17 of the EWC or as otherwise may be agreed.
<b>Containment boom</b>	A boom which can contain spillages and prevent them from entering drains or watercourses or from further contaminating watercourses.
<b>Daily</b>	During all days of plant operation, and in the case of emissions, when emissions are taking place; with at least one measurement on any one day.
<b>Day</b>	Any 24 hour period.
<b>Daytime</b>	0800 hrs to 2200 hrs.
<b>dB(A)</b>	Decibels (A weighted).

<b>DO</b>	Dissolved Oxygen.
<b>Documentation</b>	Any report, record, result, data, drawing, proposal, interpretation or other document in written or electronic form which is required by this licence.
<b>Drawing</b>	Any reference to a drawing or drawing number means a drawing or drawing number contained in the application, unless otherwise specified in this licence.
<b>EMP</b>	Environmental Management Programme.
<b>Emission Limits</b>	Those limits, including concentration limits and deposition rates established in <i>Schedule B: Emission Limits</i> of this licence.
<b>Environmental Damage</b>	Has the meaning given it in Directive 2004/35/EC.
<b>EPA</b>	Environmental Protection Agency.
<b>European Waste Catalogue (EWC)</b>	A harmonised, non-exhaustive list of wastes drawn up by the European Commission and published as Commission Decision 2000/532/EC and any subsequent amendment published in the Official Journal of the European Community.
<b>Facility</b>	Any site or premises used for the purposes of the recovery or disposal of waste.
<b>Fortnightly</b>	A minimum of 24 times per year, at approximately two week intervals.
<b>GC/MS</b>	Gas Chromatography/Mass Spectroscopy.
<b>Green waste</b>	Waste wood (excluding timber), plant matter such as grass cuttings, and other vegetation.
<b>Heavy Metals</b>	This term is to be interpreted as set out in “Parameters of Water Quality, Interpretation and Standards” published by the Agency in 2001. ISBN 1-84095-015-3.
<b>Hours of Operation</b>	The hours during which the facility is authorised to be operational.
<b>Hours of Waste Acceptance</b>	The hours during which the facility is authorised to accept waste.
<b>ICP</b>	Inductively Coupled Plasma Spectroscopy.
<b>Incident</b>	The following shall constitute an incident for the purposes of this licence: <ul style="list-style-type: none"><li>a) an emergency;</li><li>b) any emission which does not comply with the requirements of this licence;</li><li>c) any exceedence of the daily duty capacity of the waste handling equipment;</li><li>d) any trigger level specified in this licence which is attained or exceeded; and,</li><li>e) any indication that environmental pollution has, or may have, taken place.</li></ul>

<b>Inert waste</b>	Waste that does not undergo any significant physical, chemical or biological transformations. Inert waste will not dissolve, burn or otherwise physically or chemically react, biodegrade or adversely affect other matter with which it comes into contact in a way likely to give rise to environmental pollution or harm human health. The total leachability and pollutant content of the waste and the ecotoxicity of the leachate must be insignificant, and in particular not endanger the quality of surface water and/or groundwater.
<b>IPPC</b>	Integrated Pollution Prevention & Control.
<b>K</b>	Kelvin.
<b>kPa</b>	Kilo Pascals.
<b>Leq</b>	Equivalent continuous sound level.
<b>Licence</b>	A Waste Licence issued in accordance with the Waste Management Acts 1996 to 2005.
<b>Licensee</b>	Onyx Ireland Limited.
<b>Liquid Waste</b>	Any waste in liquid form and containing less than 2% dry matter.
<b>List I</b>	As listed in the EC Directives 76/464/EEC and 80/68/EEC and amendments.
<b>List II</b>	As listed in the EC Directives 76/464/EEC and 80/68/EEC and amendments.
<b>Local Authority</b>	Waterford City Council.
<b>Maintain</b>	Keep in a fit state, including such regular inspection, servicing, calibration and repair as may be necessary to adequately perform its function.
<b>Mass Flow Limit</b>	An Emission Limit Value which is expressed as the maximum mass of a substance which can be emitted per unit time.
<b>Mass Flow Threshold</b>	A mass flow rate, above which, a concentration limit applies.
<b>MBAS</b>	Methylene Blue Active Substances.
<b>Monthly</b>	A minimum of 12 times per year, at approximately monthly intervals.
<b>Municipal waste</b>	As defined in Section 5(1) of the Waste Management Acts 1996 to 2005.
<b>Night-time</b>	2200 hrs to 0800 hrs.
<b>Noise Sensitive Location (NSL)</b>	Any dwelling house, hotel or hostel, health building, educational establishment, place of worship or entertainment, or any other facility or area of high amenity which for its proper enjoyment requires the absence of noise at nuisance levels.
<b>Oil Separator</b>	Device installed according to the draft European Standard prEN 858 (Installations for the separation of light liquids, e.g. oil and petrol).
<b>PER</b>	Pollution Emission Register.
<b>Quarterly</b>	All or part of a period of three consecutive months beginning on the first day of January, April, July or October.

<b>Recyclable Materials</b>	Those waste types, such as cardboard, batteries, gas cylinders, etc, which may be recycled.
<b>Regional Fisheries Board</b>	Southern Regional Fisheries Board.
<b>Sanitary Authority</b>	Waterford City Council.
<b>Sanitary Effluent</b>	Waste water from facility toilet, washroom and canteen facilities.
<b>Sample(s)</b>	Unless the context of this licence indicates to the contrary, samples shall include measurements by electronic instruments.
<b>SOP</b>	Standard Operating Procedure.
<b>Specified emissions</b>	Those emissions listed in <i>Schedule B: Emission Limits</i> of this licence.
<b>Standard Method</b>	A National, European or internationally recognised procedure (eg, I.S. EN, ISO, CEN, BS or equivalent), as an in-house documented procedure based on the above references, a procedure as detailed in the current edition of “Standard Methods for the Examination of Water and Wastewater”, (prepared and published jointly by A.P.H.A., A.W.W.A & W.E.F), American Public Health Association, 1015 Fifteenth Street, N.W., Washington DC 20005, USA; or, an alternative method as may be agreed by the Agency.
<b>Storm Water</b>	Rain water run-off from roof and non-process areas.
<b>Temporary storage</b>	In relation to waste is a period of less than six months as defined in the Waste Management Acts 1996 to 2005.
<b>The Agency</b>	Environmental Protection Agency.
<b>TOC</b>	Total Organic Carbon.
<b>Trade Effluent</b>	Trade Effluent has the meaning given in the water pollution Acts 1977 and 1990.
<b>Trigger Level</b>	A parameter value, the achievement or exceedance of which requires certain actions to be taken by the licensee.
<b>WEEE</b>	As defined in S.I. No. 340 of 2005.
<b>Weekly</b>	During all weeks of plant operation, and in the case of emissions, when emissions are taking place; with at least one measurement in any one week.
<b>WWTP</b>	Waste Water Treatment Plant.

# ***Decision & Reasons for the Decisions***

## ***Reasons for the Decision***

The Agency is satisfied, on the basis of the information available, that subject to compliance with the conditions of this licence, any emissions from the activity will comply with and will not contravene any of the requirements of Section 40(4) of the Waste Management Acts 1996 to 2005.

In reaching this decision the Environmental Protection Agency has considered the application and supporting documentation received from the applicant, and the report of its inspector. No objection having been received to the Proposed Decision, the licence is granted in accordance with the terms of the Proposed Decision and the reasons therefore.

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## ***Part I Schedule of Activities Licensed***

In pursuance of the powers conferred on it by the Waste Management Acts 1996 to 2005, the Environmental Protection Agency (the Agency), under Section 46(8)(a) of the said Act hereby grants this Waste Licence to Onyx Ireland Limited to carry on the waste activity/activities listed below at Carrignard, Six Cross Roads Business Park, Waterford City subject to conditions, with the reasons therefor and the associated schedules attached thereto set out in the licence.

### ***Licensed Waste Disposal Activities, in accordance with the Third Schedule of the Waste Management Acts 1996 to 2005***

<b>Class 11.</b>	Blending or mixture prior to submission to any activity referred to in a preceding paragraph of this Schedule.
<b>Class 12.</b>	Repackaging prior to submission to any activity referred to in a preceding paragraph of this Schedule.
<b>Class 13.</b>	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.

### ***Licensed Waste Recovery Activities, in accordance with the Fourth Schedule of the Waste Management Acts 1996 to 2005***

<b>Class 2.</b>	Recycling or reclamation of organic substances which are not used as solvents (including composting and other biological processes).
<b>Class 3.</b>	Recycling or reclamation of metals and metal compounds.
<b>Class 4.</b>	Recycling or reclamation of other inorganic materials.
<b>Class 13.</b>	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.

## ***Part II Schedule of Activities Refused***

*None of the proposed activities as set out in the licence application have been refused.*



## Part III Conditions

### Condition 1. Scope

- 1.1 Waste activities at this facility shall be restricted to those listed and described in Part I Activities Licensed and shall be as set out in the licence application or as modified under Condition 1.5 of this licence and subject to the conditions of this licence.
- 1.2 Activities at this facility shall be limited as set out in *Schedule A: Limitations*, of this licence.
- 1.3 The facility shall be controlled, operated, and maintained and emissions shall take place as set out in this licence. All programmes required to be carried out under the terms of this licence, become part of this licence.
- 1.4 For the purposes of this licence, the facility authorised by this licence, is the area of land outlined in red on Figure B1.a (Revision 1) of the application. Any reference in this licence to “facility” shall mean the area thus outlined in red. The licensed activities shall be the carried on only within the area outlined.
- 1.5 No alteration to, or reconstruction in respect of, the activity or any part thereof which would, or is likely to, result in
- (a) a material change or increase in:
- The nature or quantity of any emission,
  - The abatement/treatment or recovery systems,
  - The range of processes to be carried out,
  - The fuels, raw materials, intermediates, products or wastes generated, or
- (b) any changes in:
- Site management infrastructure or control with adverse environmental significance,
- shall be carried out or commenced without prior notice to, and without the agreement of, the Agency.
- 1.6 This licence is for the purposes of waste licensing under the Waste Management Acts 1996 to 2005 only and nothing in this licence shall be construed as negating the licensee’s statutory obligations or requirements under any other enactments or regulations.
- 1.7 This licence is being granted in substitution for the waste licence granted to the licensee on 14<sup>th</sup> November 2003 and bearing Waste Licence Register No: 177-1. The previous waste licence (Register No: 177-1) is superseded by this licence.
- 1.8 Waste Acceptance Hours and Hours of Operation
- 1.8.1 With the exception of emergencies or as may be agreed by the Agency, waste shall be accepted at the facility only between the hours of 0700 to 2030 Monday to Friday inclusive (excluding Bank Holidays) and 0700 to 1730 on Saturdays and bank holidays.
- 1.8.2 The facility shall be operated only during the hours of 0700 to 2100 Monday to Friday inclusive (excluding Bank Holidays) and 0700 to 1800 on Saturdays and bank holidays unless otherwise agreed by the Agency.

Reason: To clarify the scope of this licence.

## Condition 2. Management of the Facility

### 2.1 Facility Management

2.1.1 The licensee shall employ a suitably qualified and experienced facility manager who shall be designated as the person in charge. The facility manager or a nominated, suitably qualified and experienced, deputy shall be present on the facility at all times during its operation or as otherwise required by the Agency.

2.1.2 The licensee shall ensure that personnel performing specifically assigned tasks shall be qualified on the basis of appropriate education, training and experience, as required and shall be aware of the requirements of this licence. In addition, the facility manager and his/her deputy shall successfully complete FAS waste management training programme or equivalent agreed with the Agency.

### 2.2 Environmental Management System (EMS)

2.2.1 The licensee shall maintain an Environmental Management System (EMS). The EMS shall be updated on an annual basis.

2.2.2 The EMS shall include as a minimum the following elements:

2.2.2.1 Management and Reporting Structure.

2.2.2.2 Schedule of Environmental Objectives and Targets.

The licensee shall prepare a Schedule of Environmental Objectives and Targets. The Schedule shall as a minimum provide for a review of all operations and processes, including an evaluation of practicable options, for energy and resource efficiency, the use of cleaner technology, cleaner production, and the prevention, reduction and minimisation of waste, and shall include waste reduction targets. The Schedule shall include time frames for the achievement of set targets and shall address a five year period as a minimum. The Schedule shall be reviewed annually and amendments thereto notified to the Agency for agreement as part of the Annual Environmental Report (AER).

2.2.2.3 Environmental Management Programme (EMP)

An EMP shall be maintained by the licensee. It shall include:

- (a) designation of responsibility for targets;
- (b) the means by which they may be achieved;
- (c) the time within which they may be achieved.

The EMP shall be reviewed annually and amendments thereto notified to the Agency for agreement as part of the Annual Environmental Report (AER) (Condition 2.2.2.2).

A report on the programme, including the success in meeting agreed targets, shall be prepared and submitted to the Agency as part of the AER. Such reports shall be retained on-site for a period of not less than seven years and shall be available for inspection by authorised persons of the Agency.

#### 2.2.2.4 Documentation

- (i) The licensee shall maintain an environmental management documentation system which shall be to the satisfaction of the Agency.
- (ii) The licensee shall issue a copy of this licence to all relevant personnel whose duties relate to any condition of this licence.

#### 2.2.2.5 Corrective Action

The licensee shall maintain procedures to ensure that corrective action is taken should the specified requirements of this licence not be fulfilled. The responsibility and authority for initiating further investigation and corrective action in the event of a reported non-conformity with this licence shall be defined

#### 2.2.2.6 Awareness and Training

The licensee shall maintain procedures for identifying training needs, and for providing appropriate training, for all personnel whose work can have a significant effect upon the environment. Appropriate records of training shall be maintained.

#### 2.2.2.7 Communications Programme

The licensee shall maintain a Communications Programme to ensure that members of the public can obtain information at the facility, at all reasonable times, concerning the environmental performance of the facility

*Reason: To make provision for management of the activity on a planned basis having regard to the desirability of ongoing assessment, recording and reporting of matters affecting the environment.*

### Condition 3. Infrastructure and Operation

- 3.1 The licensee shall establish all infrastructure referred to in this licence or as required by the conditions of this licence.
- 3.2 Facility Notice Board
  - 3.2.1 The licensee shall provide and maintain an Facility Notice Board on the facility so that it is legible to persons outside the main entrance to the facility. The minimum dimensions of the board shall be 1200 mm by 750 mm.
  - 3.2.2 The board shall clearly show:-
    - a) the name and telephone number of the facility;
    - b) the normal hours of opening;
    - c) the name of the licence holder;
    - d) an emergency out of hours contact telephone number;
    - e) the licence reference number; and
    - f) where environmental information relating to the facility can be obtained.

- 3.3 Facility Security
- 3.3.1 Security fencing, gates and closed circuit television shall be maintained around the facility boundary. Within three months of date of grant of licence, suitable fencing shall be erected at the boundary with the adjacent compost facility such as to prevent the movement of vehicles between the sites.
- 3.3.2 Gates shall be locked shut when the facility is unsupervised.
- 3.3.3 The licensee shall remedy any defect in the gates and/or fencing as follows:-
- (i) a temporary repair shall be made by the end of the working day; and
  - (ii) a repair to the standard of the original gates and/or fencing shall be undertaken within three working days.
- 3.4 Facility Roads and Site Surfaces
- 3.4.1 Effective site roads shall be maintained to ensure the safe movement of vehicles within the facility.
- 3.4.2 Traffic awaiting access to the facility shall not queue along the public road.
- 3.4.3 The licensee shall maintain an impermeable hardstanding surface at the facility entrance area, at the car parking area, and where vehicle movement takes place. The floor of the waste handling and storage areas shall be concreted and constructed to British Standard 8110.
- 3.5 Facility Office
- 3.5.1 The licensee shall provide and maintain an office at the facility. The office shall be constructed and maintained in a manner suitable for the processing and storing of documentation.
- 3.5.2 The licensee shall provide and maintain a working telephone and a method for electronic transfer of information at the facility.
- 3.6 Waste Inspection and Quarantine Areas
- 3.6.1 A Waste Inspection Area and a separate Waste Quarantine Area shall be provided and maintained at the facility.
- 3.6.2 These areas shall be constructed and maintained in a manner suitable, and be of a size appropriate, for the inspection of waste and subsequent quarantine if required. The waste inspection area and the waste quarantine area shall be clearly identified and segregated from each other.
- 3.6.3 Drainage from these areas shall be directed to FW1 as shown in Figure B2C, Rev 1a.
- 3.7 Weighbridge and Wheel Cleaning
- 3.7.1 The licensee shall provide and maintain a weighbridge and a wheel cleaner at the facility.
- 3.7.2 The wheel cleaner shall be used by all vehicles leaving the facility as required to ensure that no process water or waste is carried off-site. All water from the wheel cleaning area shall be directed to the wastewater interceptor.

- 3.8 Waste handling, ventilation and processing plant
- 3.8.1 Items of plant deemed critical to the efficient and adequate processing of waste at the facility (including *inter alia* waste loading vehicles and ejector trailers) shall be provided on the following basis:-
- 100% duty capacity;
  - 20% standby capacity available on a routine basis; and
  - Provision of contingency arrangements and/or back up and spares in the case of breakdown of critical equipment.
- 3.8.2 The licensee shall maintain a register detailing the duty and standby capacity in tonnes per day, of all waste handling and processing equipment to be used at the facility. These capacities shall be based on the licensed waste intake, as per Schedule A.2 of this licence.
- 3.8.3 The quantity of waste to be accepted at the facility on a daily basis shall not exceed the duty capacity of the equipment at the facility. Any exceedance of this intake shall be treated as an incident.
- 3.9 Construction and Demolition Waste Recovery Area
- 3.9.1 The construction and demolition waste recovery area shall be within the materials handling and recycling building.
- 3.9.2 Only Construction and Demolition waste shall be accepted at this Area. Wastes which are capable of being recovered shall be separated and shall be stored temporarily in this area prior to being subjected to other recovery activities at the facility or transport off the facility.
- 3.10 The licensee shall install on all emission points such sampling points or equipment, including any data-logging or other electronic communication equipment, as may be required by the Agency. All such equipment shall be consistent with the safe operation of all sampling and monitoring systems.
- 3.11 Sampling equipment shall be operated and maintained such that sufficient sample is collected to meet both internal monitoring requirements and those of the Agency. A separate composite sample or homogeneous sub-sample (of sufficient volume as advised) should be refrigerated immediately after collection and retained as required for EPA use.
- 3.12 The licensee shall clearly label and provide safe and permanent access to all on-site sampling and monitoring points and to off-site points as required by the Agency.
- 3.13 Tank and Drum Storage Areas
- 3.13.1 All tank and drum storage areas shall be rendered impervious to the materials stored therein.
- 3.13.2 All tank and drum storage areas shall, as a minimum, be bunded, either locally or remotely, to a volume not less than the greater of the following:-
- 110% of the capacity of the largest tank or drum within the bunded area; or
  - 25% of the total volume of substance which could be stored within the bunded area
- 3.13.3 All drainage from bunded areas shall be diverted for collection and safe disposal.
- 3.13.4 All inlets, outlets, vent pipes, valves and gauges must be within the bunded area.

- 3.13.5 The integrity and water tightness of all the bunding structures and their resistance to penetration by water or other materials stored therein shall be tested and demonstrated by the licensee at least once every three years. This testing shall be carried out in accordance with any guidance published by the Agency. The licensee shall maintain a written record of all integrity tests and any maintenance or remedial work arising from these tests.
- 3.14 The licensee shall have in storage an adequate supply of containment booms and/or suitable absorbent material to contain and absorb any spillage at the facility. Once used the absorbent material shall be disposed of at an appropriate facility.
- 3.15 **Silt Traps and Oil Separators**
- The licensee shall install and maintain silt traps and oil separator at the facility to ensure that all storm water discharges from the facility pass through a silt trap and oil separator prior to discharge. The separator shall be a Class I full retention separator and the silt traps and separator shall be in accordance with I.S. EN 585-2:2003 (separator systems for light liquids).
- 3.16 All pump sumps, or other treatment plant chambers from which spillage of environmentally significant materials might occur in such quantities as are likely to breach local or remote containment or separator, shall be fitted with high liquid level alarms (or oil detectors as appropriate) within six months of the date of grant of this licence.
- 3.17 The provision of a catchment system to collect any leaks from flanges and valves of all over ground pipes used to transport material other than water shall be examined. This shall be incorporated into a schedule of objectives and targets set out in Condition 2.2 of this licence for the reduction in fugitive emissions.
- 3.18 The licensee shall, within three months of the date of grant of this licence, install in a prominent location on the site a wind sock, or other wind direction indicator, which shall be visible from the public roadway outside the site.
- 3.19 The licensee shall provide and use adequate lighting during the operation of the facility in hours of darkness.

*REASON: To provide for appropriate operation of the facility to ensure protection of the environment.*

## Condition 4. Interpretation

- 4.1 Emission limit values for emissions to sewer in this licence shall be interpreted in the following way:-
- 4.1.1 **Discrete Sampling**
- For parameters other than pH and temperature, no grab sample value shall exceed 1.2 times the emission limit value.
- 4.2 Where the ability to measure a parameter is affected by mixing before emission, then, with agreement from the Agency, the parameter may be assessed before mixing takes place.

- 4.3 Noise from the facility shall not give rise to sound pressure levels (Leq,30 mins) measured at the boundary of the activity which exceed the limit value.

*Reason: To clarify the interpretation of emission limit values fixed under the licence.*

## Condition 5. Emissions

- 5.1 No specified emission from the facility shall exceed the emission limit values set out in *Schedule B: Emission Limits* of this licence. There shall be no other emissions of environmental significance.
- 5.2 The licensee shall ensure that the activities shall be carried out in a manner such that emissions including odours do not result in significant impairment of, and/or significant interference with amenities or the environment beyond the facility boundary.
- 5.3 No substance shall be discharged in a manner, or at a concentration which, following initial dilution, causes tainting of fish or shellfish.
- 5.4 The licensee shall ensure that vermin, birds, flies, mud, dust, litter and odours do not give rise to nuisance at the facility or in the immediate area of the facility. Any method used by the licensee to control any such nuisance shall not cause environmental pollution.
- 5.5 Unless otherwise agreed in advance by the Agency and the Sanitary Authority, the following shall apply for the discharge of wastewater, which shall be via the wastewater, discharge line indicated on Figure B.2.c Site Service Plan. There shall be no other discharge or emission to sewer of environmental significance.
- 5.6 No substance shall be present in emissions to sewer in such concentrations as would constitute a danger to sewer maintenance personnel working in the sewerage system, or as would be damaging to the fabric of the sewer, or as would interfere with the biological functioning of a downstream wastewater treatment works.
- 5.7 The licensee shall ensure that the discharge shall not contain dissolved methane, petroleum spirits or organic solvents (including chlorinated organic solvents), at concentrations which would give rise to flammable or explosive vapours in the sewer.
- 5.8 Non-trade effluent wastewater (e.g. firewater, accidental spillage) which is generated on-site shall not be discharged to the sewer without the prior authorisation of the Sanitary Authority.
- 5.9 Unless otherwise agreed by the Agency, no trade effluent, leachate and/or contaminated storm water shall be discharged to surface water drains and surface water courses.
- 5.10 There shall be no direct emissions to groundwater.

*Reason: To provide for the protection of the environment by way of control and limitation of emissions and to provide for the requirements of the Sanitary Authority in accordance with Section 99E of the EPA Acts 1992 and 2003.*

## Condition 6. Control and Monitoring

- 6.1 The licensee shall carry out such sampling, analyses, measurements, examinations, maintenance and calibrations as set out below and as in accordance with *Schedule C: Control & Monitoring* of this licence:
- 6.1.1 Analysis shall be undertaken by competent staff in accordance with documented operating procedures.
  - 6.1.2 Such procedures shall be assessed for their suitability for the test matrix and performance characteristics determined.
  - 6.1.3 Such procedures shall be subject to a programme of Analytical Quality Control using control standards with evaluation of test responses.
  - 6.1.4 Where analysis is sub-contracted it shall be to a competent laboratory.
- 6.2 All automatic monitors and samplers shall be functioning at all times (except during maintenance and calibration) when the activity is being carried on unless alternative sampling or monitoring has been agreed in writing by the Agency for a limited period. In the event of the malfunction of any continuous monitor, the licensee shall contact the Agency as soon as practicable, and alternative sampling and monitoring facilities shall be put in place. Agreement for the use of alternative equipment, other than in emergency situations, shall be obtained from the Agency.
- 6.3 Monitoring and analysis equipment shall be operated and maintained as necessary so that monitoring accurately reflects the emission or discharge.
- 6.4 All treatment/abatement and emission control equipment shall be calibrated and maintained, in accordance with the instructions issued by the manufacturer/supplier or installer.
- 6.5 The frequency, methods and scope of monitoring, sampling and analyses, as set out in this licence, may be amended with the agreement of the Agency following evaluation of test results.
- 6.6 Process Effluent
- 6.6.1 The bunds, silt traps and oil separators shall be inspected weekly, desludged as necessary and properly maintained at all times. All sludge and drainage from these operations shall be collected for safe disposal.
  - 6.6.2 The licensee shall permit authorised persons of the Agency and the Sanitary Authority to inspect, examine and test, at all reasonable times, any works and apparatus installed, in connection with the discharge or emission, and to take samples of the discharge or emission.
  - 6.6.3 No discharge or emission to sewer shall take place which might give rise to any reaction within the sewer or to the liberation of by-products which may be of environmental significance.
  - 6.6.4 The licensee shall provide and maintain an inspection chamber in a suitable position in connection with each pipe through which a discharge or emission is being made. Each such inspection chamber or manhole shall be constructed and maintained by the licensee so as to permit the taking of samples of the discharge.
  - 6.6.5 The licensee shall submit monitoring results to the Sanitary Authority on a three monthly basis.



- 6.7 Storm water
- 6.7.1 A visual examination of the storm water discharge shall be carried out daily. A log of such inspections shall be maintained.
- 6.7.2 The drainage system, bunds, silt traps and oil separators shall be inspected weekly, desludged as necessary and properly maintained at all times. All sludge and drainage from these operations shall be collected for safe disposal.
- 6.8 The licensee shall carry out a noise survey of the site operations annually. The survey programme shall be undertaken in accordance with the methodology specified in the 'Environmental Noise Survey Guidance Document' as published by the Agency.
- 6.9 The licensee shall, at a minimum of one week intervals, inspect the facility and its immediate surrounds for nuisances caused by litter, vermin, birds, flies, mud, dust and odours. A log of such inspections shall be maintained.
- 6.10 Litter Control
- 6.10.1 The measures and infrastructure as described in Section 3.3.5 of the EIS that accompanied the original licence application shall be applied to control litter at the facility.
- 6.10.2 All loose litter or other waste from the carrying on of the waste activities, arising on or in the vicinity of the facility, other than in accordance with the requirements of this licence, shall be removed, subject to the agreement of the landowners, immediately and in any event by 1000 hrs of the next working day after such waste is discovered.
- 6.10.3 The licensee shall ensure that all vehicles delivering waste to and removing waste and materials from the facility are appropriately covered.
- 6.11 Dust/Odour Control
- 6.11.1 All waste for disposal stored overnight at the facility shall be stored within the materials recovery building or in suitably covered and enclosed containers, and shall be removed from the facility within forty eight hours, except at Bank Holiday weekends. At Bank Holiday weekends, waste for disposal shall be removed within seventy-two hours of its arrival on site.
- 6.11.2 In dry weather, site roads and any other areas used by vehicles shall be sprayed with water as and when required to minimise airborne dust nuisance.
- 6.11.3 The licensee shall maintain adequate measures for the control of odours and dust emissions, including fugitive dust emissions, from the facility. The odour management system shall at a minimum include the following:-
- (i) Dust curtains (or equivalent approved by the Agency) shall be maintained on the entry/exit points from the waste transfer building, all other doors in this building shall be kept closed where possible.
  - (ii) Provision of 100% duty capacity and 20% stand by capacity, back ups and spares must be provided for the air handling, ventilation and abatement plant
- 6.11.4 The licensee shall maintain an odour management programme to the satisfaction of the Agency. The programme shall include, as a minimum, procedures for the handling of biodegradable waste.

- 6.12 Operational Controls
- 6.12.1 The floor of the waste transfer building shall be cleaned on a weekly basis and on a daily basis where putrescible waste is handled. The floor of the storage bays for recovered wastes shall be washed down and cleaned on each occasion such bays are emptied, or as a minimum on a weekly basis.
  - 6.12.2 Scavenging shall not be permitted at the facility.
  - 6.12.3 The licensee shall provide and use adequate lighting during the operation of the facility in hours of darkness.
  - 6.12.4 Fuels shall be stored only at appropriately bunded locations on the facility.
  - 6.12.5 All tanks and drums shall be labelled to clearly indicate their contents.
  - 6.12.6 There shall be no casual public access to the facility.

*Reason: To provide for the protection of the environment by way of treatment and monitoring of emissions.*

## Condition 7. Resource Use and Energy Efficiency

- 7.1 The licensee shall carry out an audit of the energy efficiency of the site within one year of the date of grant of this licence. The audit shall be carried out in accordance with the guidance published by the Agency; "Guidance Note on Energy Efficiency Auditing". The energy efficiency audit shall be repeated at intervals as required by the Agency.
- 7.2 The audit shall identify all opportunities for energy use reduction and efficiency and the recommendations of the audit will be incorporated into the Schedule of Environmental Objectives and Targets under Condition 2 above.
- 7.3 The licensee shall identify opportunities for reduction in the quantity of water used on site including recycling and reuse initiatives, wherever possible. Reductions in water usage shall be incorporated into Schedule of Environmental Objectives and Targets.
- 7.4 The licensee shall undertake an assessment of the efficiency of use of raw materials in all processes, having particular regard to the reduction in waste generated. The assessment should take account of best international practice for this type of activity. Where improvements are identified, these shall be incorporated into the Schedule of Environmental Objectives and Targets.

*Reason: To provide for the efficient use of resources and energy in all site operations.*

## Condition 8. Materials Handling

- 8.1 Disposal or recovery of waste shall only take place in accordance with the conditions of this licence and in accordance with the appropriate National and European legislation and protocols.
- 8.2 Waste sent off-site for recovery or disposal shall be transported only by an authorised waste contractor. The waste shall be transported only from the site of the activity to the site of recovery/disposal in a manner which will not adversely affect the

environment and in accordance with the appropriate National and European legislation and protocols.

- 8.3 The licensee shall ensure that waste prior to transfer to another person shall be classified packaged and labelled in accordance with National, European and any other standards which are in force in relation to such labelling.
- 8.4 Waste shall be stored in designated areas, protected as may be appropriate, against spillage and leachate run-off. The waste is to be clearly labelled and appropriately segregated.
- 8.5 No waste classified as green list waste in accordance with the EU Transfrontier Shipment of Waste Regulations (Council Regulation EEC No.259/1993, as amended) shall be consigned for recovery without the agreement of the Agency.
- 8.6 Unless approved in writing by the Agency the licensee is prohibited from mixing a hazardous waste of one category with a hazardous waste of another category or with any other non-hazardous waste.
- 8.7 Waste Acceptance and Characterisation Procedures
- 8.7.1 Waste shall only be accepted at the facility, from Local Authority waste collection or transport vehicles or holders of waste permits, unless exempted or excluded, issued under the Waste Management Acts 1996 to 2005. Copies of these waste collection permits must be maintained at the facility.
- 8.7.2 Waste Acceptance Procedures shall be carried out in accordance with Section 2.6 'Waste Handling' of the EIS, unless otherwise provided for in the licence.
- 8.7.3 Waste arriving at the facility shall be weighed, documented and directed to the Waste Transfer Building. Each load of waste arriving at the Waste Transfer Building shall be inspected upon tipping within this building. Only after such inspections shall the waste be processed for disposal or recovery.
- 8.7.4 Any waste deemed unsuitable for processing at the facility and/or in contravention of this licence shall be immediately separated and removed from the facility at the earliest possible time. Temporary storage of such wastes shall be in a designated Waste Quarantine Area. Waste shall be stored under appropriate conditions in the quarantine area to avoid putrefaction, odour generation, the attraction of vermin and any other nuisance or objectionable condition.
- 8.7.5 A record of all inspections of incoming waste loads shall be maintained.
- 8.7.6 Waste shall be accepted at the facility only from known customers or new customers subject to initial waste profiling and waste characterisation off-site. The written records of this off-site waste profiling and characterisation shall be retained by the licensee for all active customers and for a two year period following termination of licensee/customer agreements. There shall be no casual public access to the facility.
- 8.7.7 Waste shall be accepted at the facility only from holders of a Waste Collection Permit, unless exempted under the Waste Management (Collection Permit) Regulations 2001.
- 8.8 Off-site Disposal and Recovery
- 8.8.1 All waste transferred from the facility shall be transferred by an authorised or exempted carrier, and only to an appropriate facility agreed by the Agency. Any request for agreement of such a facility shall be forwarded to the Agency at least one month in advance of its proposed use and shall include the following;
- (i) A copy of the waste permit or waste licence where applicable.

- (ii) The proposed waste types and quantities.
- (iii) Details of any limitations on waste types and quantities acceptable at the facility.

*Reason: To provide for the appropriate handling of materials and the protection of the environment.*

## **Condition 9. Accident Prevention and Emergency Response**

- 9.1 The licensee shall, within six months of date of grant of this licence, ensure that a documented Accident Prevention Policy is in place which will address the hazards on-site, particularly in relation to the prevention of accidents with a possible impact on the environment. This procedure shall be reviewed annually and updated as necessary.
- 9.2 The licensee shall, within six months of date of grant of this licence, ensure that a documented Emergency Response Procedure is in place, which shall address any emergency situation which may originate on-site. This Procedure shall include provision for minimising the effects of any emergency on the environment. This procedure shall be reviewed annually and updated as necessary.
- 9.3 In the event of an incident the licensee shall immediately:-
- (i) isolate the source of any such emission;
  - (ii) carry out an immediate investigation to identify the nature, source and cause of the incident and any emission arising therefrom;
  - (iii) evaluate the environmental pollution, if any, caused by the incident;
  - (iv) identify and execute measures to minimise the emissions/malfunction and the effects thereof, and
  - (v) identify the date, time and place of the incident.

The licensee shall provide a proposal to the Agency for its agreement within one month of the incident occurring or as otherwise agreed with the Agency to:-

- identify and put in place measures to avoid reoccurrence of the incident; and
- identify and put in place any other appropriate remedial action.

9.4. Emergencies

No waste shall be burnt within the boundaries of the facility. A fire at the facility shall be treated as an emergency and immediate action shall be taken to extinguish it and notify the appropriate authorities.

*Reason: To provide for the protection of the environment.*

## **Condition 10. Decommissioning.**

- 10.1 Following termination, or planned cessation for a period greater than six months, of use or involvement of all or part of the site in the licensed activity, the licensee shall,

to the satisfaction of the Agency, decommission, render safe or remove for disposal/recovery, any soil, subsoils, buildings, plant or equipment, or any waste, materials or substances or other matter contained therein or thereon, that may result in environmental pollution. The licensee shall carry out such tests, investigation or submit certification, as requested by the Agency, to confirm that there is no risk to the environment.

*Reason: To make provision for the proper closure of the activity ensuring protection of the environment.*

## Condition 11. Notifications, Records and Reports

- 11.1 The licensee shall notify the Agency by both telephone and either facsimile or electronic mail, if available, to the Agency's Headquarters in Wexford, or to such other Agency office as may be specified by the Agency, as soon as practicable after the occurrence of any of the following:
- (i) Any release of environmental significance to atmosphere from any potential emission point including bypasses.
  - (ii) Any emission which does not comply with the requirements of this licence.
  - (iii) Any malfunction or breakdown of key control equipment or monitoring equipment set out in *Schedule C Control & Monitoring*, of this licence which is likely to lead to loss of control of the abatement system.
  - (iv) Any incident with the potential for environmental contamination of surface water or groundwater, or posing an environmental threat to air or land, or requiring an emergency response by the Local Authority.
- The licensee shall include as part of the notification, date and time of the incident, summary details of the occurrence, and where available, the steps taken to minimise any emissions.
- 11.2 In the event of any incident which relates to discharges to sewer, having taken place, the licensee shall notify the Local and Sanitary Authority as soon as practicable, after such an incident.
- 11.3 The licensee shall make a record of any incident. This record shall include details of the nature, extent, and impact of, and circumstances giving rise to, the incident. The record shall include all corrective actions taken to; manage the incident, minimise wastes generated and the effect on the environment, and avoid recurrence. The licensee shall as soon as practicable following incident notification, submit to the Agency the incident record.
- 11.4 The licensee shall record all complaints of an environmental nature related to the operation of the activity. Each such record shall give details of the date and time of the complaint, the name of the complainant and give details of the nature of the complaint. A record shall also be kept of the response made in the case of each complaint.
- 11.5 The licensee shall record all sampling, analyses, measurements, examinations, calibrations and maintenance carried out in accordance with the requirements of this licence and all other such monitoring which relates to the environmental performance of the facility.
- 11.6 The licensee shall as a minimum keep the following documents at the site:-

- (i) the licences relating to the facility;
- (ii) the current EMS for the facility;
- (iii) the previous year's AER for the facility;
- (iv) records of all sampling, analyses, measurements, examinations, calibrations and maintenance carried out in accordance with the requirements of this licence and all other such monitoring which relates to the environmental performance of the facility;
- (v) relevant correspondence with the Agency;
- (vi) an up to date site drawings/plans showing the location of key process and environmental infrastructure, including monitoring locations and emission points

and this documentation shall be available to the Agency for inspection at all reasonable times.

11.7 The licensee shall submit reports to the Agency as required by this licence and in accordance with *Schedule E: Annual Environmental Report*, of this licence.

11.8 The licensee shall submit to the Agency, by the 31<sup>st</sup> March of each year, an AER covering the previous calendar year. This report, which shall be to the satisfaction of the Agency, shall include as a minimum the information specified in *Schedule E: Annual Environmental Report* of this licence and shall be prepared in accordance with any relevant guidelines issued by the Agency.

11.9 A full record, which shall be open to inspection by authorised persons of the Agency at all times, shall be kept by the licensee on matters relating to the waste management operations and practices at this site. This record shall be maintained on a monthly basis and shall as a minimum contain details of the following:

- (i) The tonnages and EWC Code for the waste materials imported and/or sent off-site for disposal/recovery.
- (ii) The names of the agent and carrier of the waste, and their waste collection permit details, if required (to include issuing authority and vehicle registration number).
- (iii) Details of the ultimate disposal/recovery destination facility for the waste and its appropriateness to accept the consigned waste stream, to include its permit/licence details and issuing authority, if required.
- (iv) Written confirmation of the acceptance and disposal/recovery of any hazardous waste consignments sent off-site.
- (v) Details of all wastes consigned abroad for Recovery and classified as 'Green' in accordance with the EU Transfrontier Shipment of Waste Regulations (Council Regulation EEC No. 259/1993, as amended). The rationale for the classification must form part of the record.
- (vi) Details of any rejected consignments.
- (vii) Details of any approved waste mixing.
- (viii) The results of any waste analyses required under *Schedule C: Control & Monitoring* of this licence.
- (ix) The tonnages and EWC Code for the waste materials recovered/disposed on-site.

11.10 Waste Recovery Reports

The licensee shall as part of the EMP submit a report on the contribution by this facility to the achievement of the recovery targets stated in national and European Union waste policies and shall include the following:-

- (i) proposals for the contribution of the facility to the achievement of targets for the reduction of biodegradable waste to landfill as specified in the Landfill Directive;
- (ii) the separation of recyclable materials from the waste;
- (iii) the recovery of Construction and Demolition Waste;
- (iv) the recovery of metal waste and WEEE.

*Reason: To provide for the collection and reporting of adequate information on the activity.*

## Condition 12. Financial Charges and Provisions

### 12.1 Agency Charges

12.1.1 The licensee shall pay to the Agency an annual contribution of €5,974, or such sum as the Agency from time to time determines, having regard to variations in the extent of reporting, auditing, inspection, sampling and analysis or other functions carried out by the Agency, towards the cost of monitoring the activity as the Agency considers necessary for the performance of its functions under the Waste Management Acts 1996 to 2005. The first payment shall be a pro-rata amount for the period from the date of this licence to the 31st day of December, and shall be paid to the Agency within one month from the date of the licence. In subsequent years the licensee shall pay to the Agency such revised annual contribution as the Agency shall from time to time consider necessary to enable performance by the Agency of its relevant functions under the Waste Management Acts 1996 to 2005, and all such payments shall be made within one month of the date upon which demanded by the Agency.

12.1.2 In the event that the frequency or extent of monitoring or other functions carried out by the Agency needs to be increased the licensee shall contribute such sums as determined by the Agency to defraying its costs in regard to items not covered by the said annual contribution.

### 12.2 Sanitary Authority Charges

12.2.1 The licensee shall pay to the Sanitary Authority €0.056 cent per cubic metre of trade effluent discharged to the foul sewer or such sum as may be determined from time to time, having regard to the variations in the cost of providing drainage and the variation in effluent reception and treatment costs. Payment to be made quarterly on demand.

12.2.2 The licensee shall pay an annual charge of €220 to the Sanitary Authority towards the cost of monitoring the trade effluent. This amount will be revised from time to time. Payment to be made on demand.

### 12.3 Environmental Liabilities

12.3.1 The licensee shall as part of the AER provide an annual statement as to the measures taken or adopted at the site in relation to the prevention of environmental damage, and the measures in place in relation to the underwriting of costs for remedial actions following anticipated events or accidents/incidents, as may be associated with the carrying on of the activity.

*Reason: To provide for adequate financing for monitoring and financial provisions for measures to protect the environment and to provide for the requirements of the Sanitary Authority in accordance with Section 99E of the EPA 1992 and 2003.*

## SCHEDULE A: Limitations

### A.1

The following waste related processes are authorised:

- i. Shredding, crushing, bailing, repackaging processes
- ii. C & D waste recovery (incl. crushing, screening, sorting, blending)
- iii. Storage of waste
- iv. Recovery of dry recyclables

No additions to these processes are permitted unless agreed in advance with the Agency.



### A.2 Waste Acceptance

**Table A.1 Waste Categories and Quantities**

WASTE TYPE <sup>Note 1</sup>	MAXIMUM (TONNES PER ANNUM) <sup>Note 2</sup>
Household	4,700
Commercial & Industrial	25,750
Construction & Demolition	800
<b>TOTAL</b>	<b>31,250</b>

**Note 1:** Any proposals to accept other compatible waste streams must be agreed in advance with the Agency and the total amount of waste must be within that specified.

**Note 2:** The individual limitation on waste streams may be varied with the agreement of the Agency subject to the overall total limit staying the same.

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## SCHEDULE B: Emission Limits

### B.1 Emissions to Air

There are no Emissions to Air of environmental significance.

### B.2 Emissions to Water

There are no Emissions to Water of environmental significance.

### B.3 Emission to Sewer

Emission Point Reference No.: FW1

Location: As per Fig. B2C, Rev. 1a

Volume to be emitted: Maximum in any one day: 763.2 m<sup>3</sup>  
 Maximum rate per hour: 31.8 m<sup>3</sup>

Parameter	Emission Limit Value
Temperature	18°C (max.)
PH	6 - 9
	mg/l
BOD	400
COD	1100
Suspended Solids	300
Oils, Fats & Greases	10
Conductivity	1500
MBAS	0.2

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### B.4 Noise Emissions

Daytime dB(A) L <sub>Aeq</sub> (30 minutes)	Night-time dB(A) L <sub>Aeq</sub> (30 minutes)
55 <sup>Note 1</sup>	45 <sup>Note 1</sup>

**Note 1:** There shall be no clearly audible tonal component or impulsive component in the noise emission from the activity at any noise sensitive location.



## SCHEDULE C: Control & Monitoring

### C.1.1 Control of Emissions to Air

There are no point source emissions to air of environmental significance.

### C.1.2 Monitoring of Emissions to Air

There are no point source emissions to air of environmental significance.

### C.2.1 Control of Emissions to Water

There are no emissions to water of environmental significance.

### C.2.2 Monitoring of Emissions to Water

There are no emissions to water of environmental significance.

### C.2.3 Monitoring of Storm Water Emission

Emission Point Reference No.:

WI 4

Parameter	Monitoring Frequency	Analysis Method/Technique
Conductivity	Weekly	Portable probe
Ammonia	Weekly	Portable probe
Visual Inspection	Daily	Grab sample and examine for colour and odour



### C.3.1 Control of Emissions to Sewer

This is addressed in Conditions 5 and 6.



### C.3.2 Monitoring of Emissions to Sewer

Emission Point Reference No.:

FW1

Parameter	Monitoring Frequency	Analysis Method/Technique
Flow	Continuous	On-line flow meter with recorder
Temperature	Continuous	On-line temperature probe with recorder
PH	Continuous	pH electrode/meter and recorder
Chemical Oxygen Demand	Quarterly	Standard Method
Biochemical Oxygen Demand	Quarterly	Standard Method
Suspended Solids	Quarterly	Gravimetric
Oils, fats & greases	Quarterly	Standard Method
Conductivity	Quarterly	Standard Method
MBAS	Quarterly	Standard Method

### C.4 Noise Monitoring

Location	Measurement	Frequency
N1 (258326E, 109519N)	LA <sub>EQ</sub> (30 minutes)	Annually
N2 (258362E, 109435N)	LA <sub>EQ</sub> (30 minutes)	Annually
N3 (258312E, 109511N)	LA <sub>EQ</sub> (30 minutes)	Annually

### C.5 Ambient Monitoring

#### Dust deposition Monitoring

Locations:

D1 - 3, as indicated in Figure C.1.a (Revision 1) of the review application.

Parameter	Monitoring Frequency	Analysis Method/Technique
Dust deposition	Three times a year <sup>Note 2</sup>	Standard Method <sup>Note 1</sup>

**Note 1:** Standard method VDI2119 (Measurement of Dustfall, Determination of Dustfall using Bergerhoff Instrument (Standard Method) German Engineering Institute). A modification (not included in the standard) which 2 methoxy ethanol may be employed to eliminate interference due to algae growth in the gauge.

**Note 2:** Twice during the period May to September.

## SCHEDULE D: Reporting

Completed reports shall be submitted to:

The Environmental Protection Agency  
 Office of Environmental Enforcement  
 Environmental Protection Agency  
 P. O. Box 3000  
 Johnstown Castle Estate  
 Co. Wexford **or** Any other address as may be specified by the Agency

Reports are required to be forwarded as required in the licence and as may be set out below:

Report	Reporting Frequency <sup>Note1</sup>	Report Submission Date
Annual Environment Report (AER)	Annually	By 31 <sup>st</sup> March of each year.
Record of incidents	As they occur	Within five days of the incident.

**Note 1:** Unless altered at the request of the Agency.

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## SCHEDULE E: Annual Environmental Report

### Annual Environmental Report Content<sup>Note 1</sup>

Waste activities carried out at the facility.  
 Emissions from the facility.  
 Quantity and Composition of waste recovered, received and disposed of during the reporting period and each previous year (relevant EWC codes to be used).  
 Resource consumption summary.  
 Complaints summary.  
 Schedule of Environmental Objectives and Targets.  
 Environmental management programme – report for previous year.  
 Environmental management programme – proposal for current year.  
 Noise monitoring report summary.  
 Ambient monitoring summary.  
 Bund tank and container integrity assessment.  
 Tank and pipeline testing and inspection report.  
 Reported incidents summary.  
 Energy efficiency audit report summary.  
 Development / Infrastructural works summary (completed in previous year or prepared for current year).  
 Management and staffing structure of the facility, and a programme for public information.  
 Statement of measures in relation to prevention of environmental damage and remedial actions (Environmental Liabilities).  
 Full title and a written summary of any procedures developed by the licensee in the year which relates to the facility operation.  
 Waste Recovery Report.  
 Review of Nuisance Controls.  
 Any other items specified by the Agency.

**Note 1:** Content may be revised subject to the agreement of the Agency.

Sealed by the seal of the Agency on this the 10th day of February, 2006

PRESENT when the seal of the Agency  
 was affixed hereto:

\_\_\_\_\_  
 Padraic Larkin, **Director/Authorised Person**

# ATTACHMENT B4

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## **B4 Sanitary Authority**

The effluent discharge limits are governed by Waste License 177-2 issued by the EPA which is included in Attachment B3.

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# ATTACHMENT B5

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Appendix not required.

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# ATTACHMENT B6

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## **B6**

### **Site Notice & Drawing**

Please find copy of site text shown overleaf. Also find Figure B5a Revision 1 showing position of notice on site.

### **Site Advertisement**

Please find the newspaper containing the advertisement for application or a copy of the whole page containing the advertisement.

### **Notifying Local Authority**

Please find overleaf a correspondence notifying the planning authority of the application being made.

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## SITE NOTICE

### APPLICATION TO THE ENVIRONMENTAL PROTECTION AGENCY FOR A REVIEW OF A WASTE LICENCE

Onyx Ireland Ltd, Carrignard, Six Cross Roads Business Park, Waterford is applying to the Environmental Protection Agency, in accordance with the Waste Management Regulations, 1997 (SI No.13 of 1997) in respect of its Waste Transfer Station at the aforementioned address. The National Grid Reference for the activity is 2583E, 1095N.

The classes of activity in accordance with the Third and Fourth Schedules of the Waste Management Act, 1996 and as amended are:

#### **Principal Activity:**

*Third Schedule, Class 12.* Repackaging prior to submission to any activity referred to in a preceding paragraph of this Schedule.

#### **Other Activities**

##### 1. Third Schedule

*Class 11.* Blending or mixture prior to submission to any activity referred to in a preceding paragraph of this Schedule.

*Class 13.* 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.

##### 2. Fourth Schedule

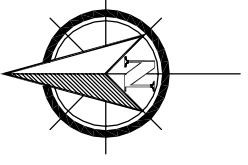
*Class 2.* Recycling or reclamation of organic substances (including composting and other biological transformation processes) which are not used as solvents.

*Class 3:* Recycling or reclamation of metals and metal compounds.

*Class 4.* Recycling or reclamation of other inorganic materials.

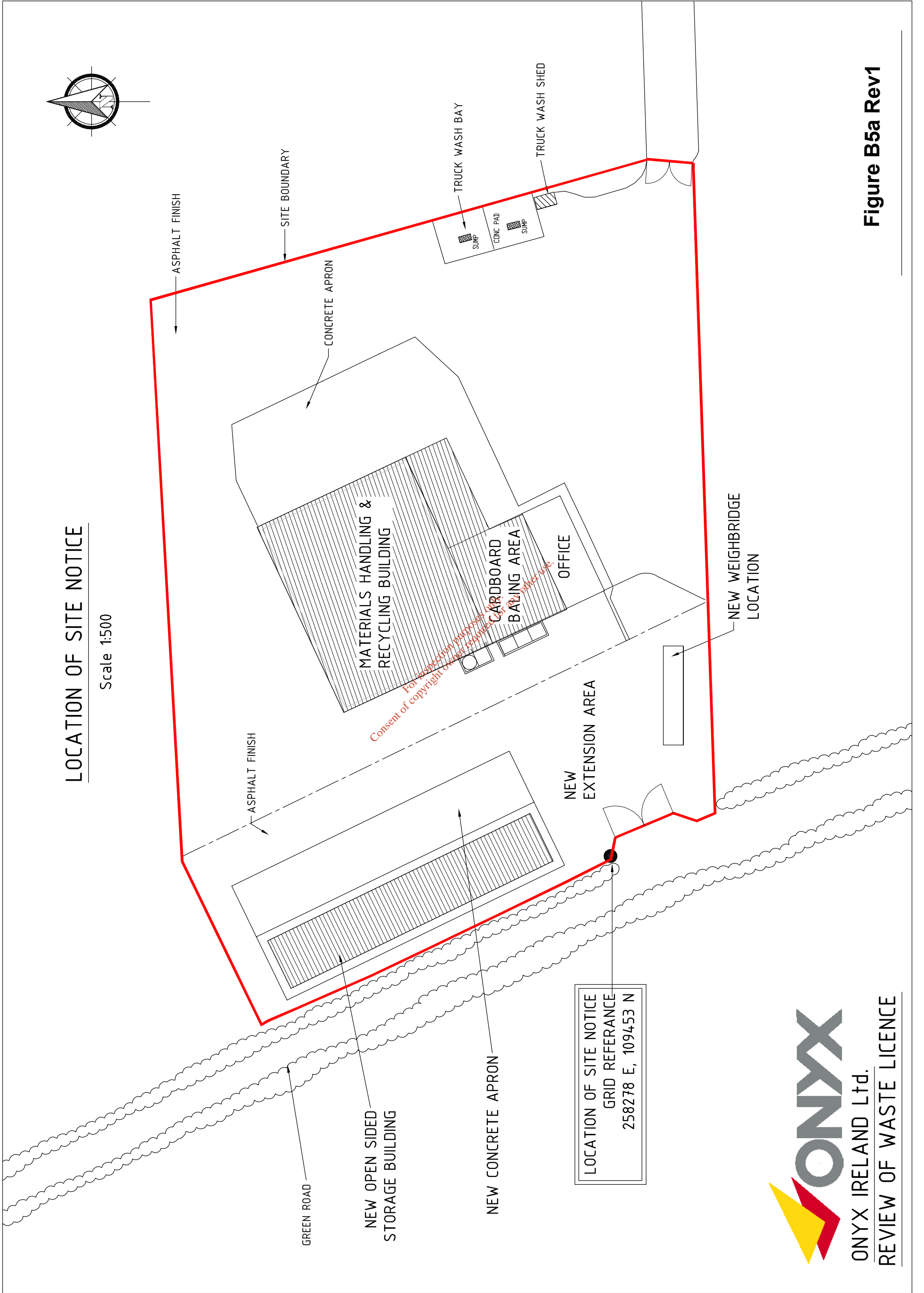
*Class 13.* Storage of waste intended for submission to any activity referred to in a preceding paragraph of this Schedule, other than temporary storage, pending collection, on the premises where such waste is produced.

The review is made for the disposal of waste (other than hazardous waste) at a facility (other than a landfill facility) where the annual intake is likely to exceed 25,000 tonnes but be less than 100,000 tonnes. A copy of the review of the waste licence application, the Environmental Impact Statement and any such further information relating to the application as may be furnished to the Agency in the course of the Agency's consideration of the application will, as soon as practicable after receipt by the Agency be available for inspection at the headquarters of the Agency, Johnstown Castle Estate, PO Box 3000, Co. Wexford.



# LOCATION OF SITE NOTICE

Scale 1:500



LOCATION OF SITE NOTICE  
 GRID REFERENCE  
 258278 E, 109453 N



ONYX IRELAND Ltd.  
 REVIEW OF WASTE LICENCE

Figure B5a Rev1

## BusinessNews

# Yukos lawyer warns of Putin's reach

*Mikhail Khodorkovsky's counsel says image of Russia 'phoney'*

ARTHUR BEESLEY, SENIOR BUSINESS CORRESPONDENT

Robert Amsterdam is an international lawyer who was expelled last year from Russia over his work for the jailed oil tycoon Mikhail Khodorkovsky.

His client is serving eight years in a Siberian prison camp for fraud and tax evasion at the energy company he once owned, Yukos.

The temperature frequently drops as low as minus 40 degrees in the camp near Russia's border with China, but Mr Amsterdam presents a case that is even more chilling. This US-Canadian lawyer says his client's plight is the direct result of grand-scale theft and rampant disregard for the rule of law by the government of Vladimir Putin.

Mr Putin and his government dispute that analysis, but Mr Amsterdam presents the case for the defence in uncompromising terms. Adamant that right is on his side, he is in Dublin this week to highlight the affair.

He points out too that the Putin government's seizure of energy assets could have worrying implications for the supply of gas to Ireland, which is a net importer of gas.

The case has its genesis in the controversial privatisation of Russian state assets in the mid-1990s during the troubled presidency of Putin's predecessor, Boris Yeltsin. Khodorkovsky was just one of the "oligarchs" to emerge with a vast fortune from that process.

He bought a majority stake in the oil holding company Yukos for \$309 million (€259 million), ruthlessly took full control of the group and built it into an entity that was valued, at its peak, at \$35 billion. By any standards, Khodorkovsky's \$15 billion personal fortune was immense. He was the richest man in Russia, a place where severe poverty is the norm for tens of millions.

Some say that it was Khodorkovsky's sponsorship of liberal political causes that provoked the ire of Putin, who had promised Russia's richest businessmen that they could keep their empires if they kept out of politics.

Mr Amsterdam says a move by Yukos into the gas sector was more important because it clashed with the interests of Gazprom, the gas giant controlled by the Russian state.

"It's very simple. Putin is Gazprom. Gazprom viewed Khodorkovsky as a threat because



Robert Amsterdam, lawyer for jailed oil tycoon Mikhail Khodorkovsky, speaking at the School of Politics in UCD, yesterday: "The destruction of Yukos was a tax-engineered state theft." Photograph: Cyril Byrne

Khodorkovsky was getting into gas. That's one critical reason and there are many, many others. Essentially Khodorkovsky was a dynamic transparent entrepreneur in a country where corruption is exploding."

According to Mr Amsterdam, that was the cue for a tax case against Yukos and Khodorkovsky, which resulted in his imprisonment and the seizure of the company by the Russian state. Citing a critical report by the Council of Europe human rights watchdog, he claims the trial was a sham and a farce.

"The destruction of Yukos was

a tax-engineered state theft. What's truly amazing about it is that the Russians don't even try to justify it. This is what is the most shocking. They have been granted so much impunity and licence from the West that they can go out and steal an asset like this," he says.

So what does all this mean for Ireland? After addressing students yesterday in UCD, Mr Amsterdam said he took issue with recent remarks by former EU commissioner Peter Sutherland, the chairman of BP and Goldman Sachs, who spoke favourably last month of "work-

able" business conditions in Russia and the prospects for growth there.

"I won't speak ill of Mr Sutherland. He's a tremendously accomplished fellow. But take a look at what he said about Russia... I've read the Irish press. The pictures and the conferences about Russia present frankly a phoney picture of what's going on inside Russia."

More than that, Mr Amsterdam says Russia's decision to switch off gas supplies to Ukraine at the end of last year demonstrated that it was prepared to manipulate energy markets for its own ends.

He said this was an issue which concerned Ireland, since it was a gas-importing country.

"I haven't seen many statements going on in terms of Ireland where they've taken a strong position on the sorry state of the rule of law in Russia."

Mr Amsterdam says Khodorkovsky has no prospect of freedom before 2009 and says his client's sole objective for the moment is survival.

He will not say who is funding his Irish visit. He is meeting some politicians, but he won't say who. "People fear for their lives after meeting me."

# Belgium sues Ryanair over €2.28m in state aid

Belgium has brought High Court proceedings against Ryanair for the recovery of more than €2.28 million provided by the Belgian authorities to the private airline for services to and from Charleroi Airport.

The Belgian move follows a decision by the European Commission in February 2004 that many of the financial arrangements agreed between Ryanair and the Walloon region of Belgium constitute state aid incompatible with the common market.

Ryanair yesterday asked the High Court to put a stay on the proceedings by Belgium pending the determination of Ryanair's appeal against the European Commission decision, which is currently before the Court of First Instance of European Communities. Belgium is opposing the stay.

The €2.28 million state aid relates to the launching costs of new routes, hotel and other accommodation, and subsistence for Ryanair staff and associated companies during the development of the base at Charleroi and aid for the recruitment and training of pilots and aircraft staff.

Counsel for Ryanair told the High Court yesterday that, if the proceedings by Belgium are stayed now, the cost to the public purse will be limited.

This was not a case where Ryanair has run away, he said. The airline had an interest in testing the European Commission decision. Money had been paid into an account by Ryanair and, if the airline does not succeed in Europe, the money goes to Belgium.

In an affidavit, the head of regulatory affairs at Ryanair, Jim Callaghan, said that, in the late 1990s, Charleroi Airport had an average of 57 passengers daily. Ryanair decided to set up a base there

even though it was a wholly unknown airport and a very risky venture.

Since Ryanair's arrival at Charleroi in 1997, Mr Callaghan said passenger numbers had grown to about two million per annum.

Following an anonymous complaint, the European Commission's director general for transport and energy investigated the incentives offered to Ryanair and "purported to conclude that they constituted a package of both lawful and unlawful State aid", he said.

The European Commission decision has very serious ramifications for Ryanair, Mr Callaghan said. It seriously hampered the ability of state-owned regional airports to compete with monopolistic major airports which were typically extremely expensive to operate from.

On December 22nd, 2004, Ryanair had, under protest and without prejudice to its appeal, lodged €4 million into an escrow account with the government of the Walloon region in respect of the first tranche of the payments that the European Commission has required to be made to Belgium. This was because, he claimed, the Walloon region failed to comply with its own legislation in terms of granting discounts.

The European Commission had rejected back-up documentation provided by Ryanair and demanded that the Walloon region bring these proceedings.

In an affidavit, the director general of legal affairs of the Belgian federal public service Jan Devadder said the appeal process may take some considerable years and a judgment was unlikely to be reached before early 2007.

# THE IRISH TIMES

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## PUBLIC NOTICES

### TEMPORARY ROAD CLOSURE



Dublin City Council

Comhairle Cathrach Bhaile Átha Cliath

ST. PATRICK'S FESTIVAL 2006

Notice is hereby given that Dublin City Council is considering closing the following streets on the dates and times as stated below: -

#### Festival Parade - 17th March

6am to 12.30pm - Western Way

7am to 12.30pm - Dominick Street Upper, Mountjoy Street, St. Mary's Place North

7am to 1pm - Granby Row, Parnell Square North, Parnell Square East, O'Connell Street (west lane), O'Connell Bridge

7am to 2pm - Westmoreland Street, College Green, Dame Street, Lord Edward Street, Christchurch Place

7am to 2.30pm - Nicholas Street, Patrick Street

10am to 3.30pm - Clanbrassil Street Lower (Kevin Street to South Circular Road).

#### Céili - Earlsfort Terrace - 17th March

7am to 6.30pm - Earlsfort Terrace (between its junctions with St Stephen's Green South and Hatch Street Upper).

#### Treasure Hunt - Castle Street - 18th March

9am to 5pm - Castle Street

#### Big Day Out - Merrion Square - 19th March

8am to 7pm - Merrion Square South, Merrion Square East, Fitzwilliam Street Lower, Merrion Street Upper (between its junctions with Fitzwilliam Lane and Merrion Square South), Mount Street Upper (to Stephen's Place).

#### Fun Fair - Merrion Square West - 13th March to 20th March

10pm on 13th March to 10pm on 20th March - Merrion Square West

#### Fun Fair - Haymarket / Smithfield - 14th March to 20th March

6am on 14th March to 6am on 20th March - Haymarket (to Burgess Lane) Smithfield West (New Church Street to Phoenix Street).

#### O'íche - Smithfield - 15th, 16th & 18th March

7pm to 9.45pm on 15th March, and 7pm to 9pm on 16th March & 18th March - Smithfield, Friary Avenue, New Church Street

Any person may lodge an objection, in writing, to Dublin City Council, Roads & Traffic Department, Civic Offices, Wood Quay, Dublin 8. The closing time and date for receipt of objections is 12:00 midday on Monday 6th March 2006.

Written objections can be faxed to (01) 222 2813.

www.dublincity.ie



WEXFORD  
COUNTY COUNCIL

COMHAIRLE CHONTAE LOCH GARMAN

### PUBLIC NOTICE

#### NOTICE OF PROPOSED MATERIAL CONTRAVENTION OF DEVELOPMENT PLAN PLANNING & DEVELOPMENT ACT 2000 MATERIAL CONTRAVENTION OF THE COUNTY WEXFORD DEVELOPMENT PLAN 2001 (REFERENCE NO. IN REGISTER 20053079).

Notice is hereby given pursuant to Section 34 (6) of the Planning & Development Act, 2000, that Wexford County Council intends to consider deciding to grant a permission for the proposed development to **DEMOLISH EXISTING DERELICT HOUSE AND TO ERECT A D.O.E. VEHICLE TEST CENTRE, ENTRANCE, SEWAGE TREATMENT SYSTEM AND ASSOCIATED SITE ROADS AND FOOTPATHS ETC. at ARDCAVAN, ARDCAVAN.**

The development would contravene materially the zoning provisions as stated in the Wexford Town and Environs Plan 2002.

Particulars of the development may be inspected at the Offices of the Planning Department, Wexford County Council, County Hall, Wexford during office hours of 10.00am to 4.00pm Monday to Friday inclusive. The Planning Authority will duly consider any objections or representations received in writing not later than 4 weeks after Wednesday, 01 March 2006. Further details available at [www.wexford.ie](http://www.wexford.ie).

Signed: Ger Griffin, COUNTY SECRETARY

Date: 21st February, 2006.

GER GRIFFIN, COUNTY SECRETARY,  
WEXFORD COUNTY COUNCIL WWW.WEXFORD.IE

### APPLICATION TO THE ENVIRONMENTAL PROTECTION AGENCY FOR A REVIEW OF A WASTE LICENCE

Onyx Ireland Ltd, Carrignard, Six Cross Roads Business Park, Waterford is applying to the Environmental Protection Agency, in accordance with the Waste Management Regulations, 1997 (SI No.13 of 1997) in respect of its Waste Transfer Station at the aforementioned address. The National Grid Reference for the activity is 2583E, 1095N. The classes of activity in accordance with the Third and Fourth Schedules of the Waste Management Act, 1996 and as amended are:

Principal Activity:  
Third Schedule, Class 12. Repackaging prior to submission to any activity referred to in a preceding paragraph of this Schedule.

Other Activities  
1. Third Schedule  
Class II. Blending or mixture prior to submission to any activity referred to in a preceding paragraph of this Schedule.  
Class 13. 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.

2. Fourth Schedule  
Class 2. Recycling or reclamation of organic substances (including composting and other biological transformation processes) which are not used as solvents.

Class 3. Recycling or reclamation of metals and metal compounds.

Class 4. Recycling or reclamation of other inorganic materials.

Class 13. 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.

A copy of the review of the waste licence application, the Environmental Impact Statement and any such further information relating to the application as may be furnished to the Agency in the course of the Agency's consideration of the application will as soon as practicable, after receipt by the Agency be available for inspection at the headquarters of the Agency, Johnstown Castle Estate, PO Box 3000, Co. Wexford.

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FAO: Mr. Michael Walsh  
Waterford City Council  
The Mall  
Waterford City

24th February 2006

Dear Mr. Walsh,

Please be advised that Onyx Ireland Ltd., Carrignard, Six Cross Roads Business Park, Waterford City is applying to the Environmental Protection Agency, in accordance with the Waste Management Regulations, 1997 (SI No. 133 of 1997) and as amended, for a review of Waste Licence (Reg No. 177-2) in respect to its Waste Transfer Station at the aforementioned address. The National Grid Reference for the activity is 2583E, 1095N.

The classes of activity in accordance with the Third and Fourth Schedules of the Waste Management Act, 1996 and as amended are:

**Principal Activity:**

*Third Schedule, Class 12.* Repackaging prior to submission to any activity referred to in a preceding paragraph of this Schedule.

**Other Activities**

Third Schedule

*Class 11.* Blending or mixture prior to submission to any activity referred to in a preceding paragraph of this Schedule.

*Class 13.* 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.

Fourth Schedule

*Class 2.* Recycling or reclamation of organic substances (including composting and other biological transformation processes) which are not used as solvents.

*Class 3:* Recycling or reclamation of metals and metal compounds.

*Class 4.* Recycling or reclamation of other inorganic materials.

*Class 13.* 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.

The review is made for the disposal of waste (other than hazardous waste) at a facility (other than a landfill facility) where the annual intake is likely to exceed 25,000 tonnes but be less than 100,000 tonnes.

A copy of the review of the waste licence application, the Environmental Impact Statement and any such further information relating to the application as may be furnished to the Agency in the course of the Agency's consideration of the application will, as soon as practicable after receipt by the Agency be available for inspection at the headquarters of the Agency, Johnstown Castle Estate, PO Box 3000, Co. Wexford.

Should you have any queries in relation to this matter, please do not hesitate to contact me.

Yours sincerely,

---

Michael Storan  
Environmental Officer

ONYX Ireland Limited

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# ATTACHMENT B7

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Please refer to Section 2.3 of the EIS.

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# ATTACHMENT B8

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Not applicable

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# ATTACHMENT C1

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## Site Management

- A chart of the on-site management structure indicating responsibility levels for environmental management is included in Section 2.9 of the EIS
- The structures in place for the management and responsibility for the operation and control of all abatement/treatment systems on-site are discussed in more detail in Section 2.9 of the EIS
- Quality System:

Onyx Ireland Ltd. have been assessed and registered by NQA against the provisions of IS EN ISO 9001:2000 in it's Dublin facility. The approved quality administration systems apply to the company's Waste Management Services. This registration is subject to the company maintaining a quality management system, to the above standard, which will be monitored by NQA.

It is intended to have similar registrations in place in Waterford by the end of 2006.

A copy of the ISO Registration Certificate for Dublin is attached.

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# Certificate of Registration



This is to certify that the Quality Management System of

**Onyx Ireland Limited**  
Ballymount Cross, Dublin 24, Ireland

applicable to

**The provision of waste management and recycling services**

has been assessed and registered by  
National Quality Assurance Limited against the provisions of

IS EN ISO 9001 : 2000

This registration is subject to the company maintaining a quality management system, to the above standard, which will be monitored by NQA.

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Managing Director

Certificate No: 19996  
Date: 20 October 2005  
Valid Until: 20 January 2009  
EAC Code: 39



# ATTACHMENT C2

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## **Environmental Management System**

Onyx Ireland Ltd. have been assessed and registered by NQA against the provisions of IS EN ISO 14001:2000 in it's Dublin facility. The approved quality administration systems apply to the company's Waste Management Services. This registration is subject to the company maintaining a quality management system, to the above standard, which will be monitored by NQA.

It is intended to have similar registrations in place in Waterford by the end of 2006.

A copy of the ISO Registration Certificate for Dublin is attached.

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# Certificate of Registration



This is to certify that the Environmental Management System of

**Onyx Ireland Limited**  
Ballymount Cross, Dublin 24, Ireland

applicable to

**The provision of waste management and recycling services**

has been assessed and registered by  
National Quality Assurance Limited against the provisions of

IS EN ISO 14001 : 2004

This registration is subject to the company maintaining an environmental management system,  
to the above standard, which will be monitored by NQA

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Managing Director

Certificate No: E944  
Date: 20 October 2005  
Valid Until: 20 January 2009



This certificate is the property of National Quality Assurance Limited and must be returned on request.  
The use of the UKAS Accreditation Mark indicates accreditation in respect of those activities covered by the accreditation certificate number 015 held by National Quality Assurance Ltd.  
National Quality Assurance Ltd is registered in England, Registration No. 2269525. Registered Office: Warwick House, Houghton Hill Park, Houghton Regis, Dunstable, LU5 5ZX

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# ATTACHMENT C3

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## **Hours of Operation**

For hours of operation please see Section 2.7.13 of the EIS.

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# ATTACHMENT C4

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Not applicable

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# ATTACHMENT D1

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D1 - Infrastructure

Refer to Section 2 of the EIS.

Please see following site drawings overleaf:

Figure D1a-Rev 1 Site Layout plan

Figure D1c-Rev 1 Traffic Control Plan

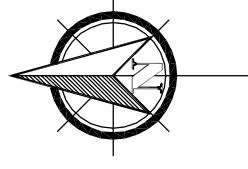
Figure D1e-Rev1 Hard standing Area

Figure D1f-Rev1 Main Inflow Meter

Figure D1g-Rev1 Pest Control System

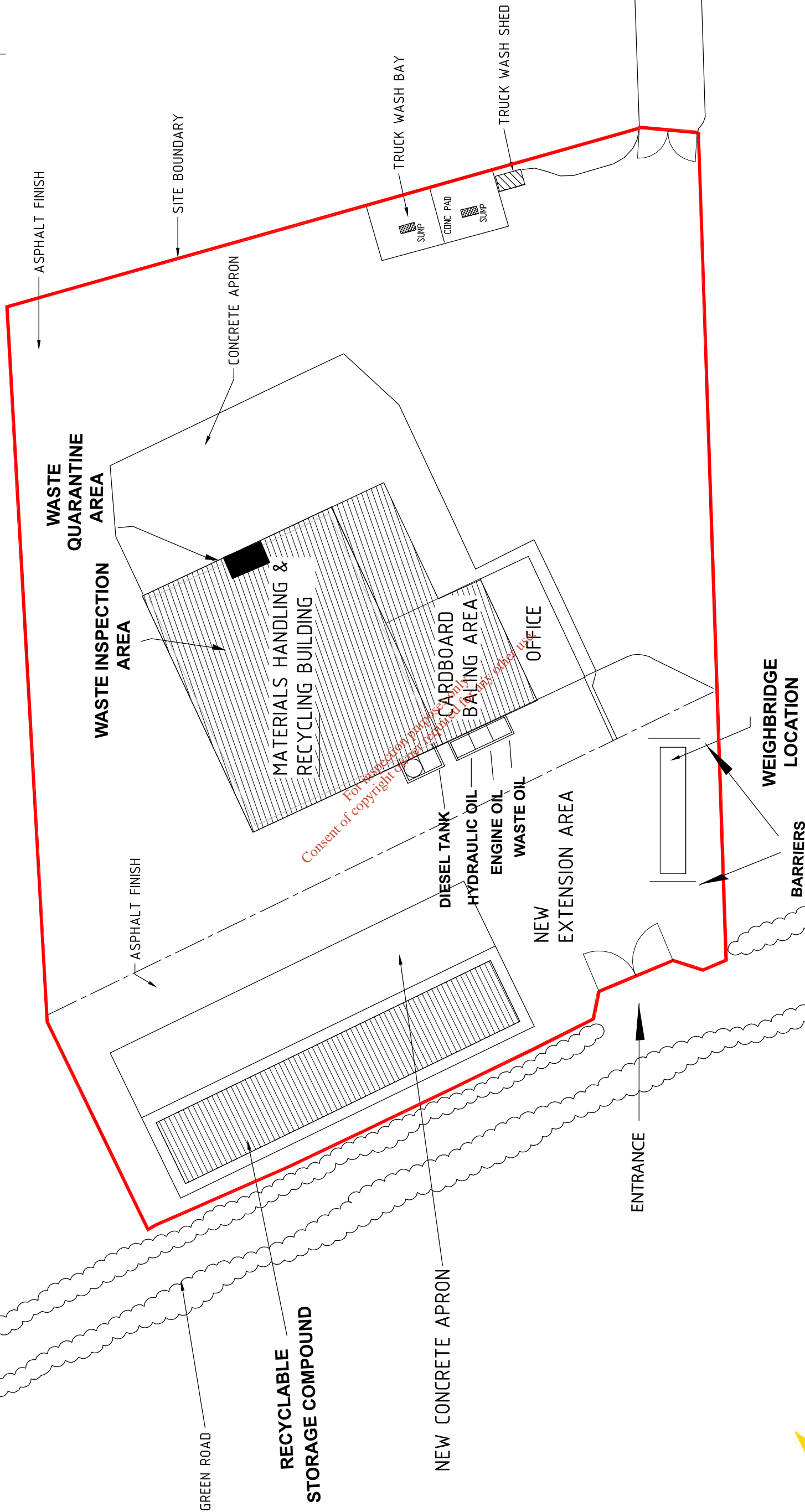
Figure B3 Site Services Plan

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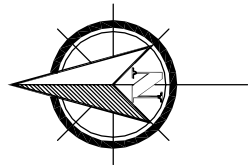
# SITE LAYOUT PLAN

Scale 1:500



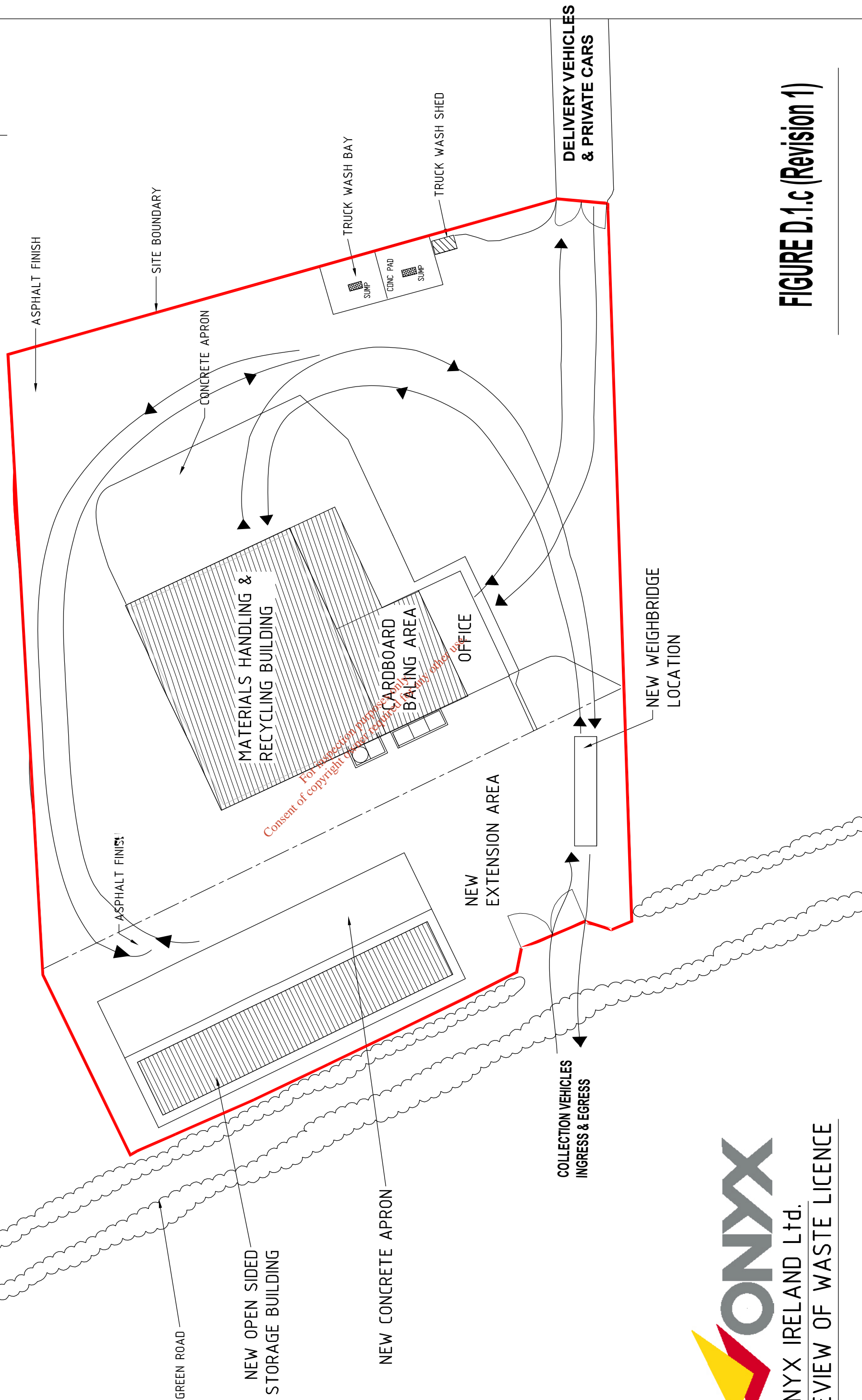
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FIGURE D.1.a (Revision 1)



# TRAFFIC CONTROL PLAN

Scale 1:500



ONYX IRELAND Ltd.  
REVIEW OF WASTE LICENCE

FIGURE D.1.c (Revision 1)

# HARDSTANDING AREA

Scale 1:500

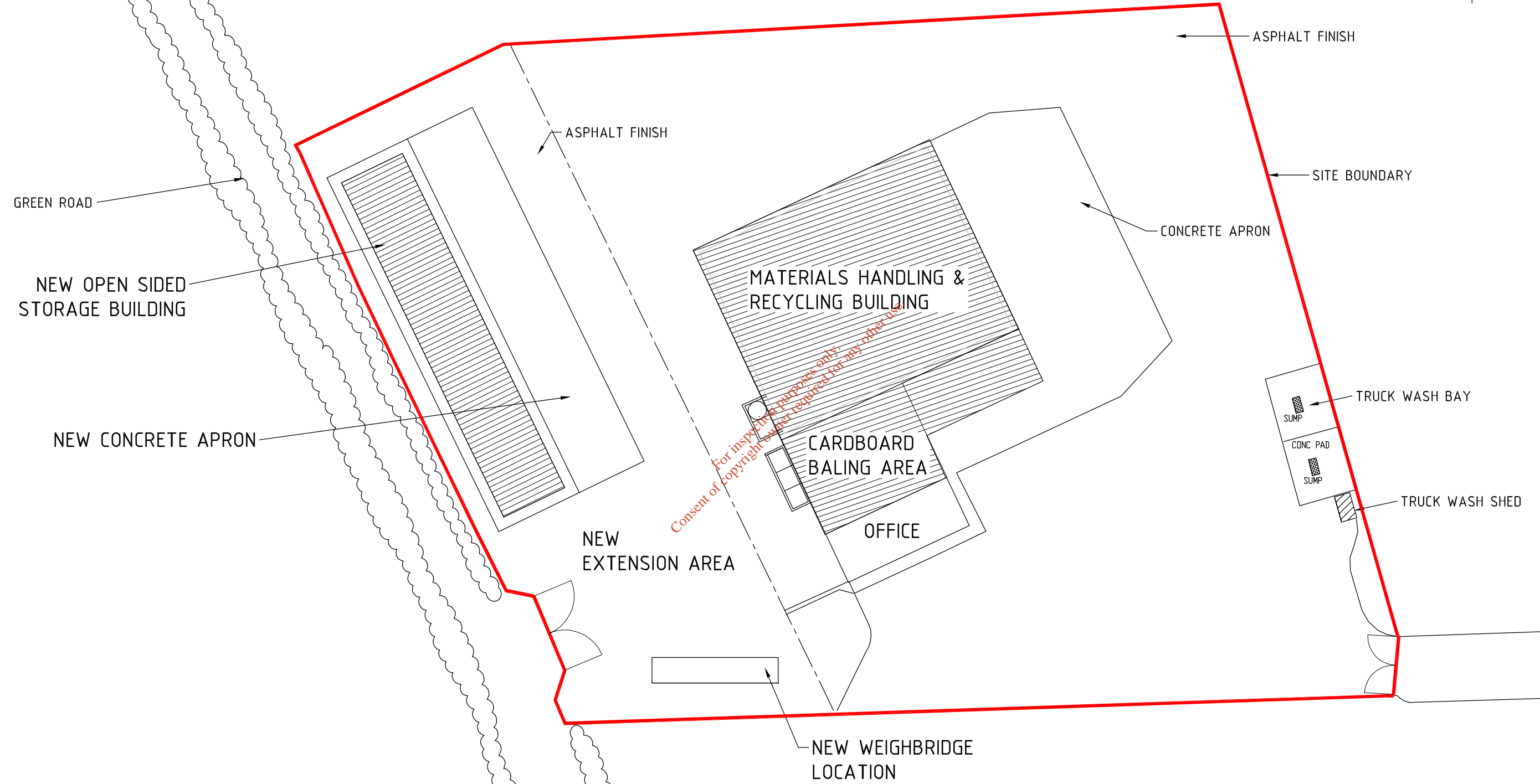
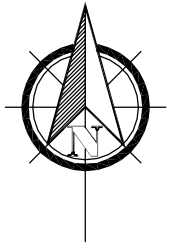


FIGURE D.1.e (Revision 1)



**Legend:**

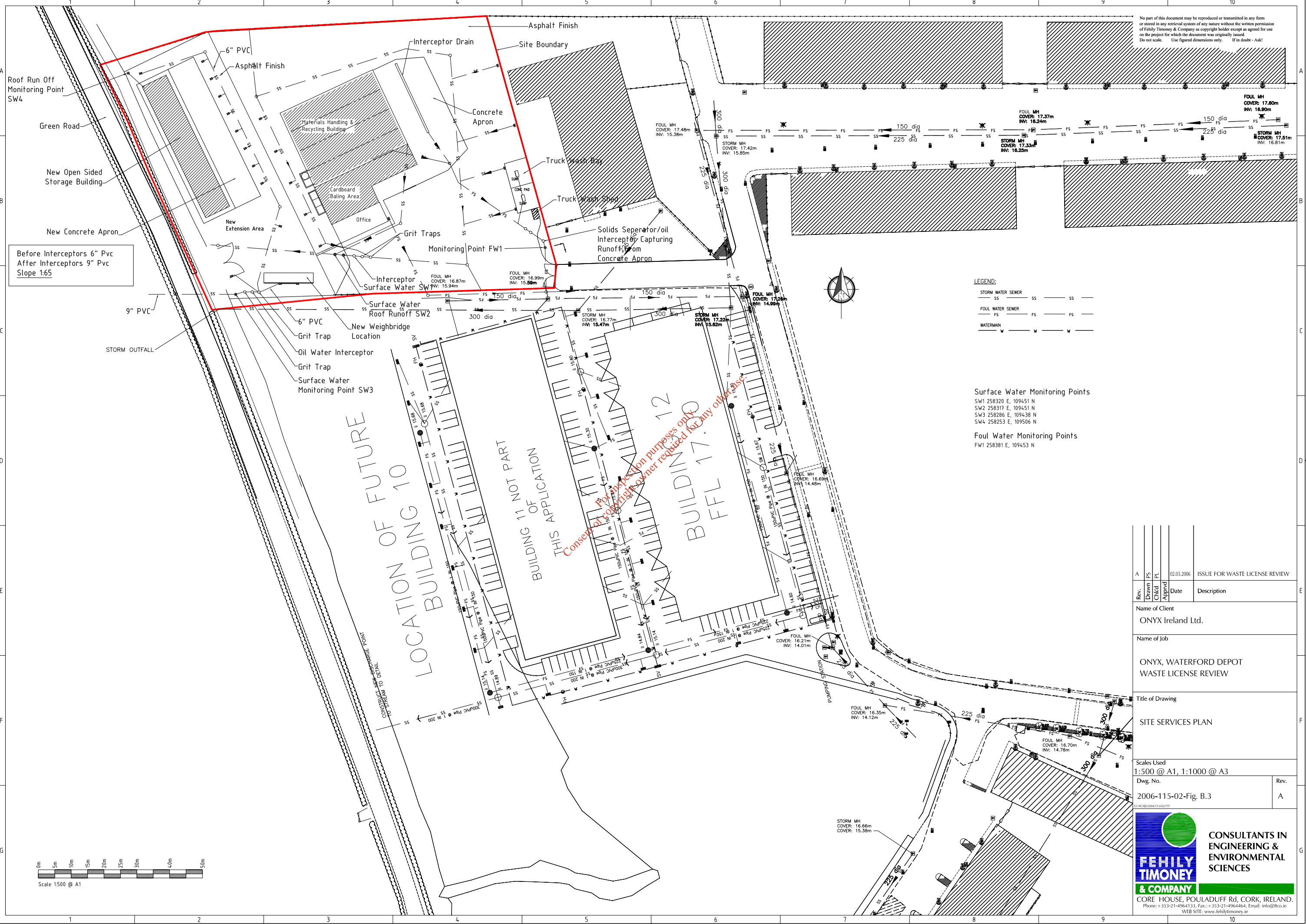
- (5) Pest Control Station



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Rev.	Drawn	IS	PL	Date	Description
	Checked			02.03.2006	ISSUE FOR WASTE LICENSE REVIEW
Name of Client					
ONYX Ireland Ltd.					
Name of Job					
ONYX, WATERFORD DEPOT WASTE LICENSE REVIEW					
Title of Drawing					
PEST CONTROL SYSTEM					
Scales Used					
1:250 @ A1, 1:500 @ A3					
Dwg. No.					Rev.
2006-115-02-Fig. D.1.g Rev 1					A
<b>CONSULTANTS IN ENGINEERING &amp; ENVIRONMENTAL SCIENCES</b> CORE HOUSE, POULADUFF Rd, CORK, IRELAND. Phone: +353-21-4964133, Fax: +353-21-4964464, Email: info@ftco.ie WEB SITE: www.fehilytimoney.ie					

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**LEGEND:**  
 STORM WATER SEWER SS — SS —  
 FOUL WATER SEWER FS — FS —  
 WATERMAIN W — W —

**Surface Water Monitoring Points**  
 SW1 258320 E, 109451 N  
 SW2 258317 E, 109451 N  
 SW3 258286 E, 109438 N  
 SW4 258253 E, 109506 N

**Foul Water Monitoring Points**  
 FW1 258381 E, 109453 N

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BUILDING 10  
BUILDING 11 NOT PART OF THIS APPLICATION  
BUILDING 12  
BUILDING 17  
FFL 17.0

LOCATION OF FUTURE BUILDING 10

Rev.	Drawn	PS	CHKD	PL	Date	Description
A					10.03.2006	ISSUE FOR WASTE LICENSE REVIEW
Name of Client						
ONYX Ireland Ltd.						
Name of Job						
ONYX, WATERFORD DEPOT WASTE LICENSE REVIEW						
Title of Drawing						
SITE SERVICES PLAN						
Scales Used						
1:500 @ A1, 1:1000 @ A3						
Dwg. No.						
2006-115-02-Fig. B.3						
Rev.						
A						

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# ATTACHMENT D2

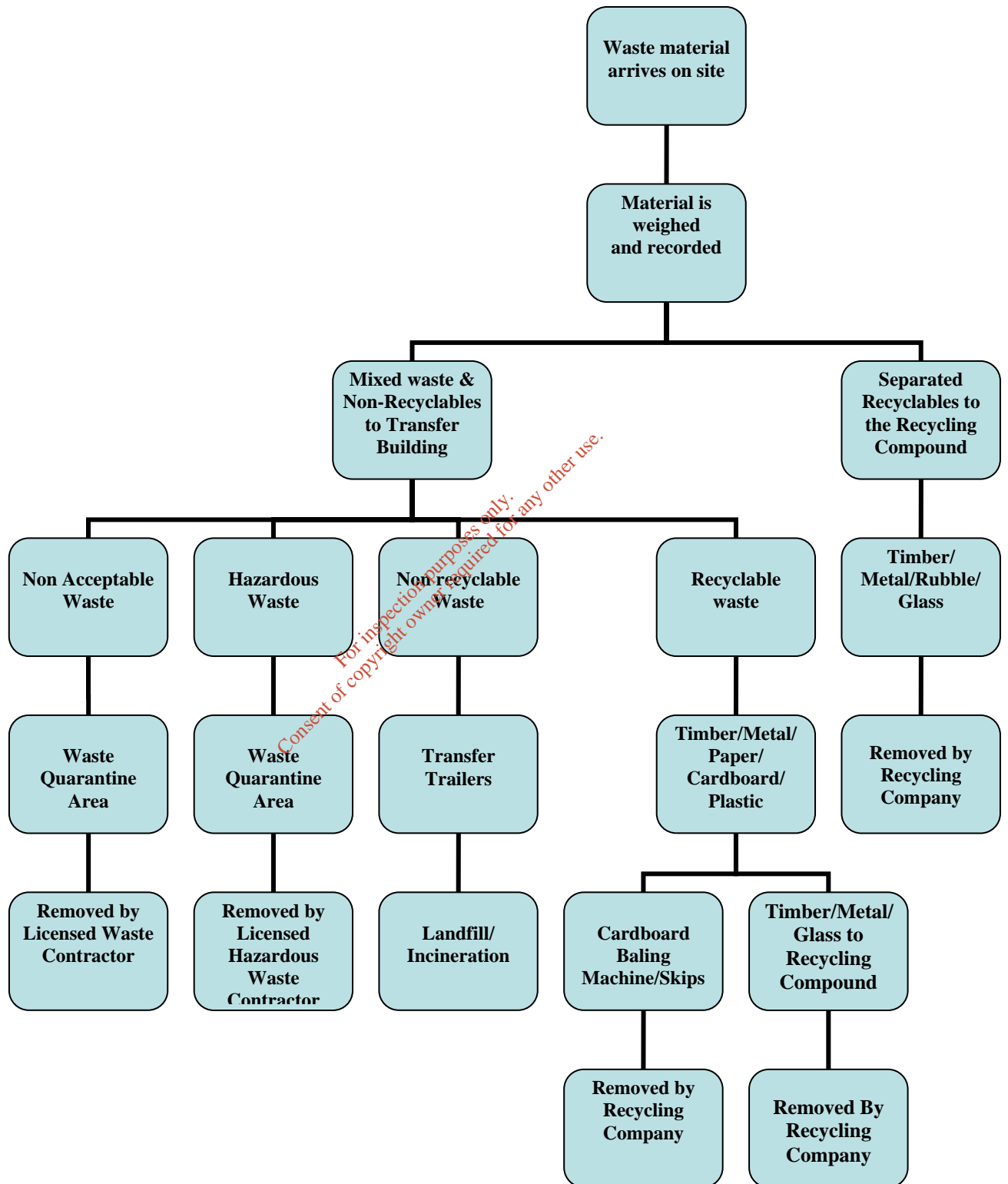
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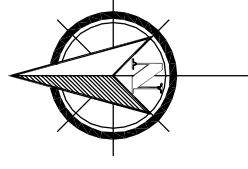
- a) Please see drawing D1a-Rev1 Site Layout Plan included. For unit operations please refer to Section 2 of the EIS.
  
- b) For flow diagram, please see overleaf.
  
- c) For emissions to the environment please see Section 3 and Section 5 of the EIS.
  
- d) Not applicable
  
- e) Not applicable

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**b) Flow Diagram**

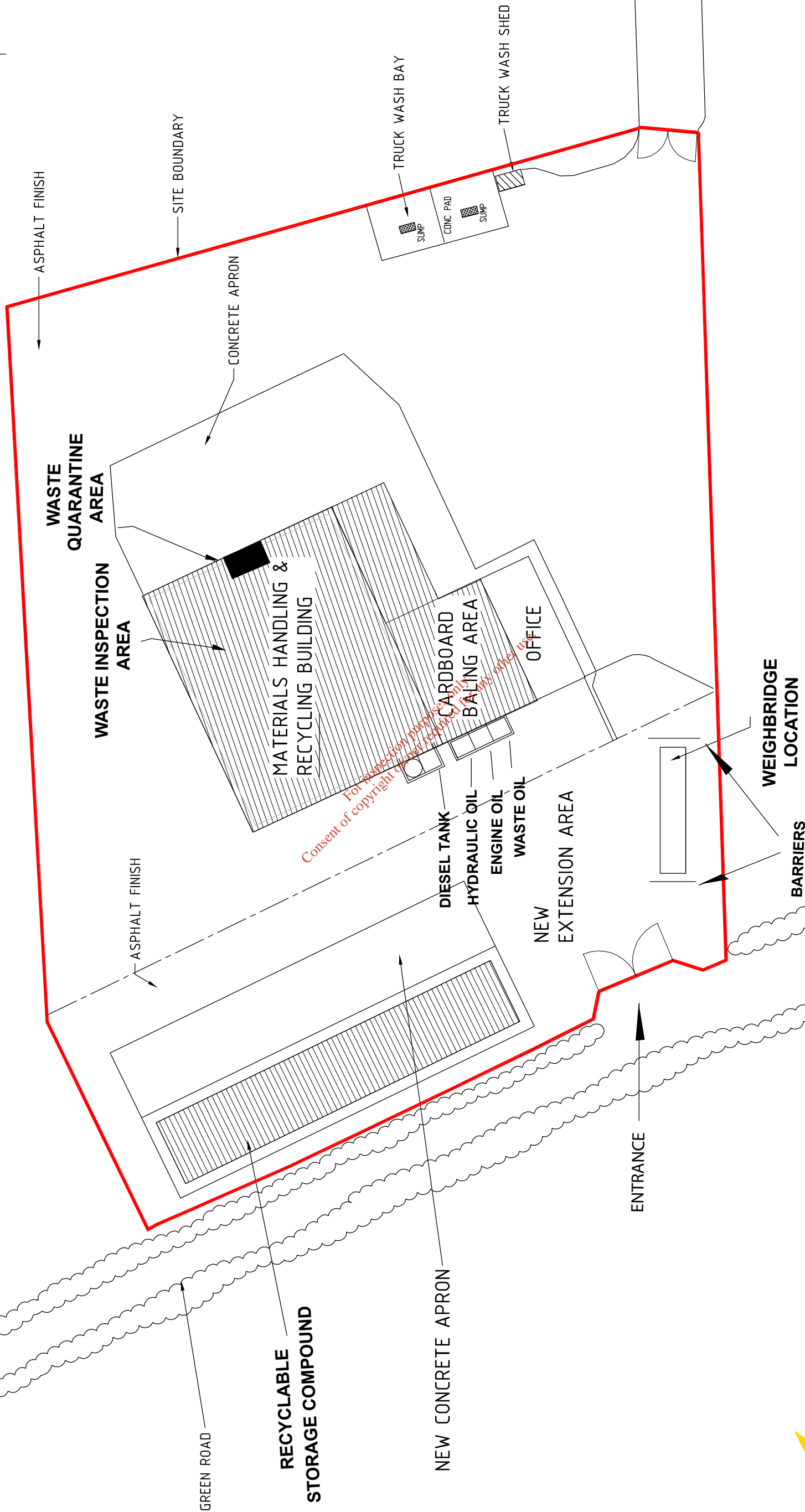
**Flow Diagram of the Facility Operation**





# SITE LAYOUT PLAN

Scale 1:500



RECYCLABLE STORAGE COMPOUND

NEW CONCRETE APRON

NEW EXTENSION AREA

ENTRANCE

BARRIERS

WEIGHBRIDGE LOCATION



**ONYX IRELAND Ltd.**  
**REVIEW OF WASTE LICENCE**

FIGURE D.1.a (Revision 1)

# ATTACHMENT D3-D6

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Attachments D3 – D6 are not applicable.

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# ATTACHMENT E1

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## **E1 – Emissions to Atmosphere**

Please refer to Sections 3.1.3, 3.2.3 & 3.3.3 of the EIS for details of all point emissions.

Please find overleaf Figure F2a showing each emission point.

Please find overleaf Tables E1 (i) – E1 (iv) completed where applicable.

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**TABLE E.1(i) LANDFILL GAS FLARE EMISSIONS TO ATMOSPHERE**

**Emission Point:**

Emission Point Ref. N <sup>o</sup> :	<b>Not applicable</b>
Location :	
Grid Ref. (12 digit, 6E,6N):	
<b>Vent Details</b>  Diameter:  Height above Ground(m):	
Date of commencement of emission:	

**Characteristics of Emission :**

CO		mg/m <sup>3</sup>
Total organic carbon (TOC)		mg/m <sup>3</sup>
NO <sub>x</sub>		mg/Nm <sup>3</sup> 0°C. 3% O <sub>2</sub> (Liquid or Gas), 6% O <sub>2</sub> (Solid Fuel)
Maximum volume of emission		m <sup>3</sup> /hr
Temperature	°C(max)	°C(min)      °C(avg)

- (i) Period or periods during which emissions are made, or are to be made, including daily or seasonal variations (*start-up/shutdown to be included*):

Periods of Emission (avg)	_____min/hr    _____hr/day    _____day/yr
---------------------------	---

**TABLE E.1(ii) MAIN EMISSIONS TO ATMOSPHERE** (1 Page for each emission point)

Emission Point Ref. N <sup>o</sup> :	<b>Not applicable</b>
Source of Emission:	
Location :	
Grid Ref. (12 digit, 6E,6N):	
Vent Details Diameter:	
Height above Ground(m):	
Date of commencement:	

**Characteristics of Emission :**

(i) Volume to be emitted:			
Average/day	m <sup>3</sup> /d	Maximum/day	m <sup>3</sup> /d
Maximum rate/hour	m <sup>3</sup> /h	Min efflux velocity	m.sec <sup>-1</sup>
(ii) Other factors			
Temperature	°C(max)	°C(min)	°C(avg)
For Combustion Sources:			
Volume terms expressed as : <input type="checkbox"/> wet. <input type="checkbox"/> dry. _____% O <sub>2</sub>			

(iii) Period or periods during which emissions are made, or are to be made, including daily or seasonal variations (*start-up /shutdown to be included*):

Periods of Emission (avg)	_____ min/hr _____ hr/day _____ day/yr
---------------------------	--

**TABLE E.1(iii): MAIN EMISSIONS TO ATMOSPHERE - Chemical characteristics of the emission** (1 table per emission point)

*Emission Point Reference Number:* NOT APPLICABLE

Parameter	Prior to treatment <sup>(1)</sup>				Brief description of treatment	As discharged <sup>(1)</sup>					
	mg/Nm <sup>3</sup>		kg/h			mg/Nm <sup>3</sup>		kg/h.		kg/year	
	Avg	Max	Avg	Max		Avg	Max	Avg	Max	Avg	Max

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1. Concentrations should be based on Normal conditions of temperature and pressure, (i.e. 0°C,101.3kPa). Wet/dry should be the same as given in Table E.1(ii) unless clearly stated otherwise.

**TABLE E.1(iv): EMISSIONS TO ATMOSPHERE - Minor /Fugitive**

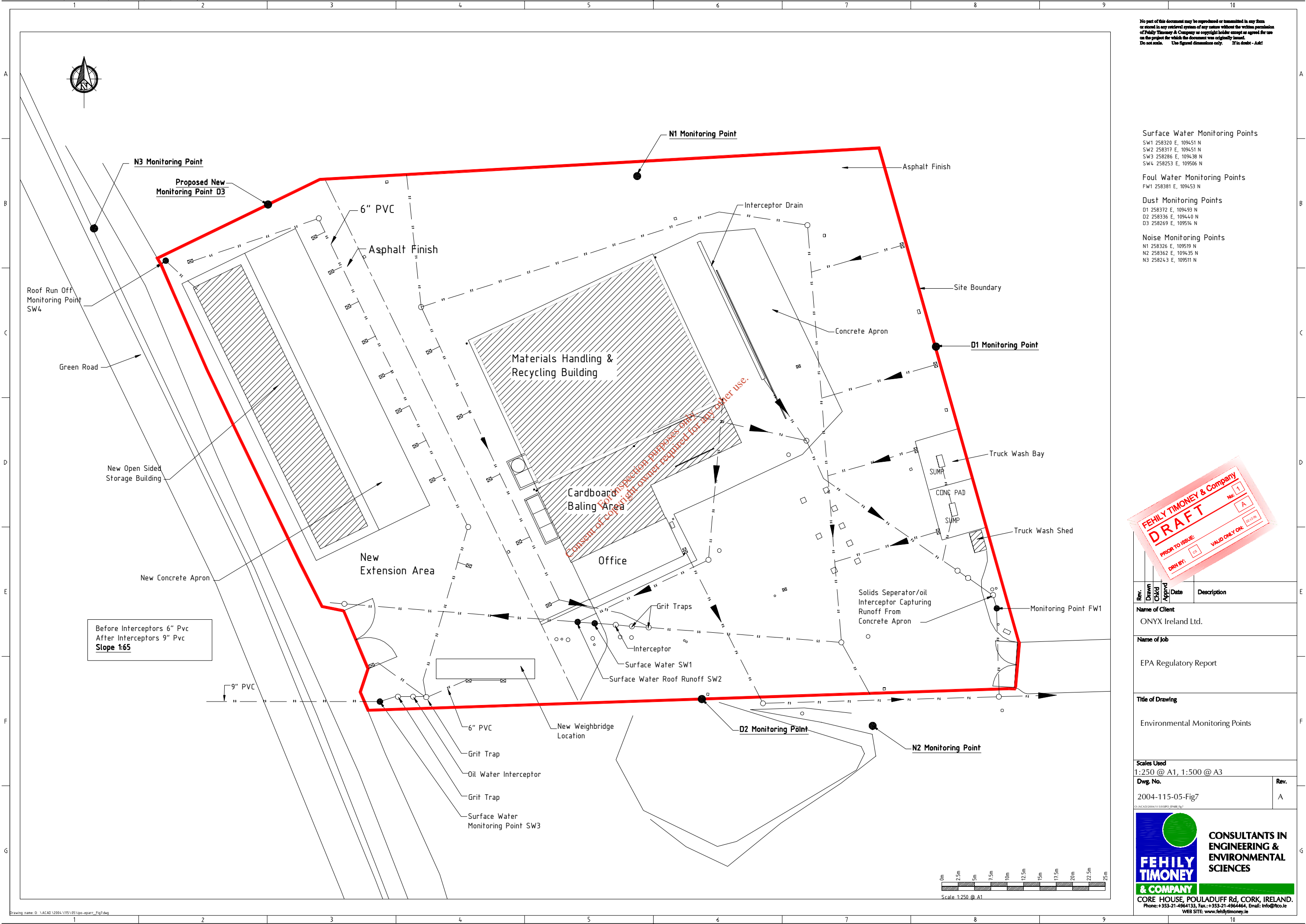
**NOT APPLICABLE**

Emission point Reference Numbers	Description	Emission details <sup>1</sup>				Abatement system employed
		material	mg/Nm <sup>3(2)</sup>	kg/h.	kg/year	

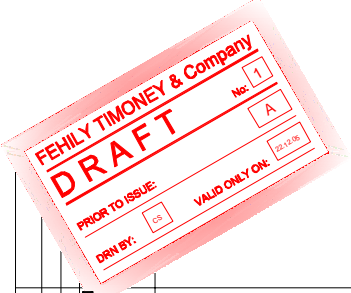
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- 1 The maximum emission should be stated for each material emitted, the concentration should be based on the maximum 30 minute mean.
- 2 Concentrations should be based on Normal conditions of temperature and pressure, (i.e. 0°C/101.3kPa). Wet/dry should be clearly stated. Include reference oxygen conditions for combustion sources.

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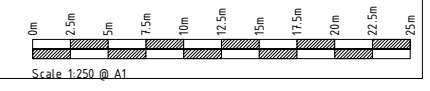


- Surface Water Monitoring Points**  
 SW1 258320 E, 109451 N  
 SW2 258317 E, 109451 N  
 SW3 258286 E, 109438 N  
 SW4 258253 E, 109506 N
- Foul Water Monitoring Points**  
 FW1 258381 E, 109453 N
- Dust Monitoring Points**  
 D1 258372 E, 109493 N  
 D2 258336 E, 109440 N  
 D3 258269 E, 109514 N
- Noise Monitoring Points**  
 N1 258326 E, 109519 N  
 N2 258362 E, 109435 N  
 N3 258243 E, 109511 N



Rev.	Drawn	Checked	Approved	Date	Description
<b>Name of Client</b>					
ONYX Ireland Ltd.					
<b>Name of Job</b>					
EPA Regulatory Report					
<b>Title of Drawing</b>					
Environmental Monitoring Points					
<b>Scales Used</b>					
1:250 @ A1, 1:500 @ A3					
<b>Dwg. No.</b>					<b>Rev.</b>
2004-115-05-Fig7					A

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 WEB SITE: www.fehilytimoney.ie



# ATTACHMENT E2

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## **E2 – Emissions to Surface Waters**

Please see Section 5 of the EIS for details on emissions to surface waters.

Please find Figure B2c Rev1 showing all surface water emission points included overleaf.

Please find completed tables E2 (i) & E2 (ii) for all surface water emission points overleaf.

Meteorological Data included in Section 6 of the EIS.

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**TABLE E.2(i): EMISSIONS TO SURFACE WATERS**  
(One page for each emission)

**Emission Point: SW1**

Emission Point Ref. N <sup>o</sup> :	SW1
Source of Emission:	Yard Run-off
Location :	In yard opposite offices
Grid Ref. (10 digit, 5E,5N):	258327E, 109438N
Name of receiving waters:	River Suir
Flow rate in receiving waters:	<p style="text-align: center;">_____ 6.5 _____ m<sup>3</sup>.sec<sup>-1</sup> Dry Weather Flow</p> <p style="text-align: center;">_____ 11.0 _____ m<sup>3</sup>.sec<sup>-1</sup> 95%ile flow</p>
Available waste assimilative capacity:	kg/day

**Emission Details:**

(i) Volume to be emitted			
Normal/day	76.9m <sup>3</sup>	Maximum/day	5,794m <sup>3</sup>
Maximum rate/hour	214.4m <sup>3</sup>		

(ii) Period or periods during which emissions are made, or are to be made, including daily or seasonal variations (*start-up /shutdown to be included*):

Periods of Emission (avg)	_____ min/hr _____ hr/day _____ day/yr
---------------------------	--



**TABLE E.2 (i): EMISSIONS TO SURFACE WATERS**  
(One page for each emission)

**Emission Point: SW2**

Emission Point Ref. N <sup>o</sup> :	SW2
Source of Emission:	Roof Run-off from Offices and Waste Transfer and Recycling Building
Location :	In yard opposite offices
Grid Ref. (10 digit, 5E,5N):	258338E, 109440N
Name of receiving waters:	River Suir
Flow rate in receiving waters:	<div style="display: flex; justify-content: space-between; align-items: center;"> <span>_____ 6.5 _____ m<sup>3</sup>.sec<sup>-1</sup> Dry Weather Flow</span> </div> <div style="display: flex; justify-content: space-between; align-items: center;"> <span>_____ 11.0 _____ m<sup>3</sup>.sec<sup>-1</sup> 95%ile flow</span> </div>
Available waste assimilative capacity:	kg/day

**Emission Details:**

(i) Volume to be emitted			
Normal/day	3.9m <sup>3</sup>	Maximum/day	1,185m <sup>3</sup>
Maximum rate/hour	49.4m <sup>3</sup>		

(ii) Period or periods during which emissions are made, or are to be made, including daily or seasonal variations (*start-up /shutdown to be included*):

Periods of Emission (avg)	_____min/hr _____hr/day _____day/yr
---------------------------	-------------------------------------

**TABLE E.2 (i): EMISSIONS TO SURFACE WATERS**  
(One page for each emission)

**Emission Point: SW3**

Emission Point Ref. N <sup>o</sup> :	SW3
Source of Emission:	New Yard Run-Off
Location :	Adjacent to Weighbridge
Grid Ref. (10 digit, 5E,5N):	258286E, 109438N
Name of receiving waters:	River Suir
Flow rate in receiving waters:	6.5 _____ m <sup>3</sup> .sec <sup>-1</sup> Dry Weather Flow 11.0 _____ m <sup>3</sup> .sec <sup>-1</sup> 95%ile flow
Available waste assimilative capacity:	_____ kg/day

**Emission Details:**

(i) Volume to be emitted			
Normal/day	2.1m <sup>3</sup>	Maximum/day	3,695m <sup>3</sup>
Maximum rate/hour	154.0m <sup>3</sup>		

(ii) Period or periods during which emissions are made, or are to be made, including daily or seasonal variations (*start-up /shutdown to be included*):

Periods of Emission (avg)	_____ min/hr _____ hr/day _____ day/yr
---------------------------	--

**TABLE E.2 (i): EMISSIONS TO SURFACE WATERS**  
(One page for each emission)

**Emission Point: SW4**

Emission Point Ref. N <sup>o</sup> :	SW4
Source of Emission:	Recycling Compound Roof Run-off
Location :	NW corner of site
Grid Ref. (10 digit, 5E,5N):	258253E, 109506N
Name of receiving waters:	River Suir
Flow rate in receiving waters:	6.5 _____ m <sup>3</sup> .sec <sup>-1</sup> Dry Weather Flow 11.0 _____ m <sup>3</sup> .sec <sup>-1</sup> 95%ile flow
Available waste assimilative capacity:	_____ kg/day

**Emission Details:**

(i) Volume to be emitted			
Normal/day	1.4m <sup>3</sup>	Maximum/day	414m <sup>3</sup>
Maximum rate/hour	17.2m <sup>3</sup>		

(ii) Period or periods during which emissions are made, or are to be made, including daily or seasonal variations (*start-up /shutdown to be included*):

Periods of Emission (avg)	_____ min/hr _____ hr/day _____ day/yr
---------------------------	--

**TABLE E.2 (ii): EMISSIONS TO SURFACE WATERS - Characteristics of the emission** (1 table per emission point)

*Emission point reference number* : SW1

Parameter	Prior to treatment				As discharged				% Efficiency
	Max. hourly average (mg/l)	Max. daily average (mg/l)	kg/day	kg/year	Max. hourly average (mg/l)	Max. daily average (mg/l)	kg/day	kg/year	
pH (pH units)					6 - 10	6 - 10	-	-	Not determined
Temperature (C)					25.0	25.0	-	-	Not determined
BOD					25.0	25.0	0.4	154	Not determined
OFG					10.0	10.0	0.16	61.7	Not determined
Suspended Solids					35.0	35.0	0.59	216	Not determined
Conductivity(µS/cm)					1000	1000	-	-	Not determined
Mineral Oils					5.0	5.0	0.08	30.8	Not determined

Figures based on average rainfall from 1990-2005

**TABLE E.2 (ii): EMISSIONS TO SURFACE WATERS - Characteristics of the emission** (1 table per emission point)

*Emission point reference number:* SW2

Parameter	Prior to treatment				As discharged				% Efficiency
	Max. hourly average (mg/l)	Max. daily average (mg/l)	kg/day	kg/year	Max. hourly average (mg/l)	Max. daily average (mg/l)	kg/day	kg/year	
pH (pH units)					6 - 10	6 - 10	-	-	Not determined
Temperature (C)					25.0	25.0	-	-	Not determined
BOD					25.0	25.0	0.1	35.3	Not determined
OFG					10.0	10.0	0.04	14.1	Not determined
Suspended Solids					35.0	35.0	0.14	49.4	Not determined
Conductivity(µS/cm)					1000	1000	-	-	Not determined
Mineral Oils					5.0	5.0	0.02	7.1	Not determined

Figures based on average rainfall from 1990-2005

**TABLE E.2 (ii): EMISSIONS TO SURFACE WATERS - Characteristics of the emission** (1 table per emission point)

*Emission point reference number:* SW3

Parameter	Prior to treatment				As discharged				% Efficiency
	Max. hourly average (mg/l)	Max. daily average (mg/l)	kg/day	kg/year	Max. hourly average (mg/l)	Max. daily average (mg/l)	kg/day	kg/year	
pH (pH units)					6 - 10	6 - 10	-	-	Not determined
Temperature (C)					25.0	25.0	-	-	Not determined
BOD					25.0	25.0	0.30	110.4	Not determined
OFG					10.0	10.0	0.12	44.2	Not determined
Suspended Solids					35.0	35.0	0.42	154.5	Not determined
Conductivity(µS/cm)					1000	1000	-	-	Not determined
Mineral Oils					5.0	5.0	0.06	22.1	Not determined

Figures based on average rainfall from 1990-2005

**TABLE E.2 (ii): EMISSIONS TO SURFACE WATERS - Characteristics of the emission** (1 table per emission point)

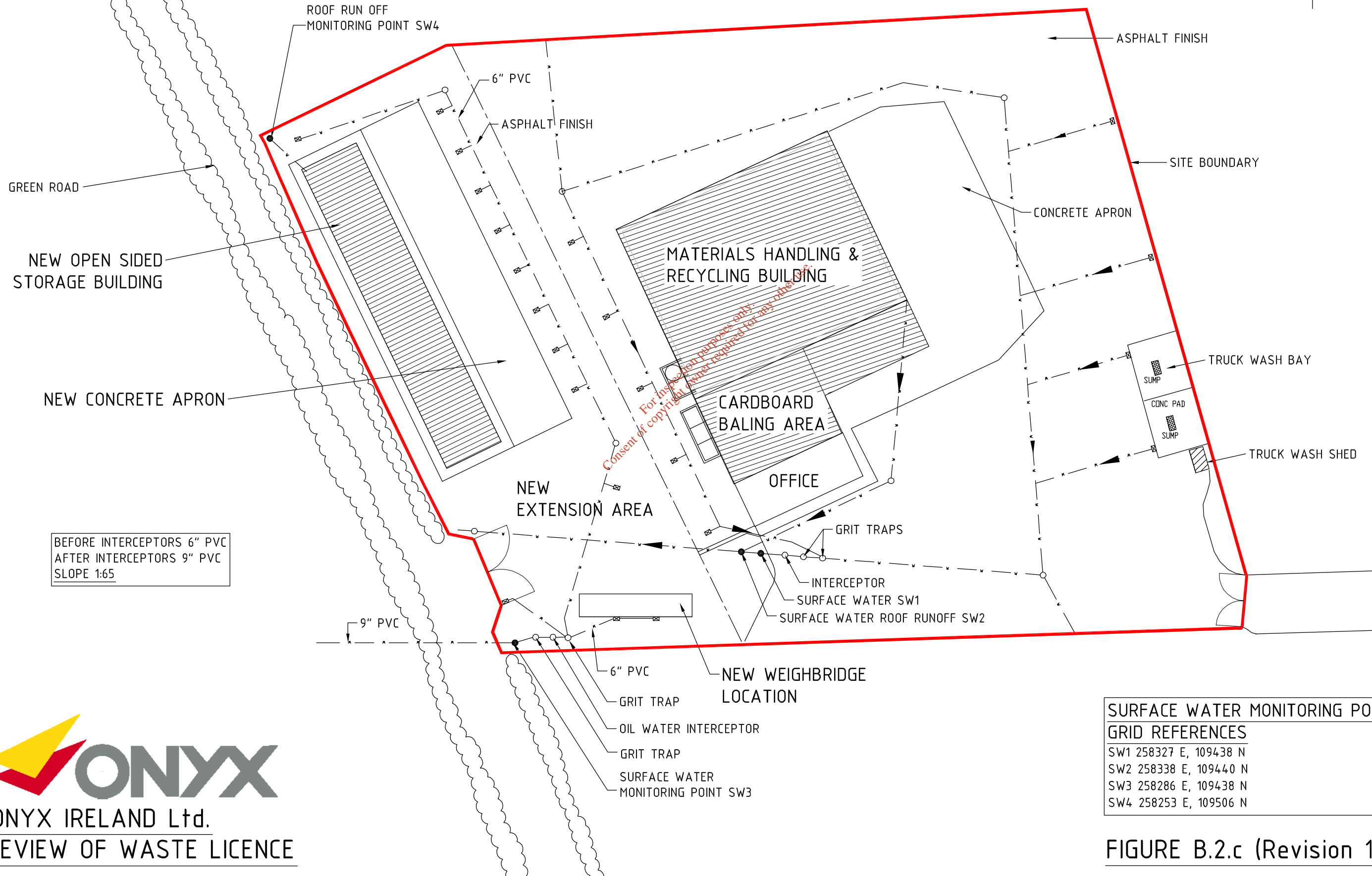
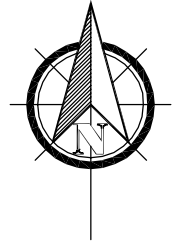
*Emission point reference number:* SW4

Parameter	Prior to treatment				As discharged				% Efficiency
	Max. hourly average (mg/l)	Max. daily average (mg/l)	kg/day	kg/year	Max. hourly average (mg/l)	Max. daily average (mg/l)	kg/day	kg/year	
pH (pH units)					6 - 10	6 - 10	-	-	Not determined
Temperature (C)					25.0	25.0	-	-	Not determined
BOD					25.0	25.0	0.03	10.9	Not determined
OFG					10.0	10.0	0.01	3.6	Not determined
Suspended Solids					35.0	35.0	0.05	18.2	Not determined
Conductivity(µS/cm)					1000	1000	-	-	Not determined
Mineral Oils					5.0	5.0	< 0.01	< 3.0	Not determined

Figures based on average rainfall from 1990-2005

# SURFACE WATER DRAINAGE SYSTEM

Scale 1:500



BEFORE INTERCEPTORS 6" PVC  
AFTER INTERCEPTORS 9" PVC  
SLOPE 1:65

SURFACE WATER MONITORING POINTS GRID REFERENCES	
SW1	258327 E, 109438 N
SW2	258338 E, 109440 N
SW3	258286 E, 109438 N
SW4	258253 E, 109506 N

FIGURE B.2.c (Revision 1)



# ATTACHMENT E3

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## **E3 – EMISSIONS TO SEWERS**

Please see Section 5 of the EIS for details on emissions to sewers.

Please find Figure B2c-Rev1a included overleaf showing foul sewer emission points.

Tables E3 (i) & E3 (ii) included overleaf.

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**TABLE E.3 (i): EMISSIONS TO SEWER**

(One page for each emission)

**Emission Point: FW1**

Emission Point Ref. N <sup>o</sup> :	FW1
Location of connection to sewer :	Adjacent to Truck Wash Shed
Grid Ref. (10 digit, 5E,5N):	258384E, 109456N
Name of sewage undertaker:	Waterford City Council

**Emission Details:**

(i) Volume to be emitted			
Normal/day	2.45m <sup>3</sup>	Maximum/day	775m <sup>3</sup>
Maximum rate/hour	31.2m <sup>3</sup>		

(ii) Period or periods during which emissions are made, or are to be made, including daily or seasonal variations (*start-up /shutdown to be included*):

Periods of Emission (avg)	_____min/hr	_____hr/day	_____day/yr
---------------------------	-------------	-------------	-------------

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**TABLE E.3 (ii): EMISSIONS TO SEWER - Characteristics of the emission** (1 table per emission point)

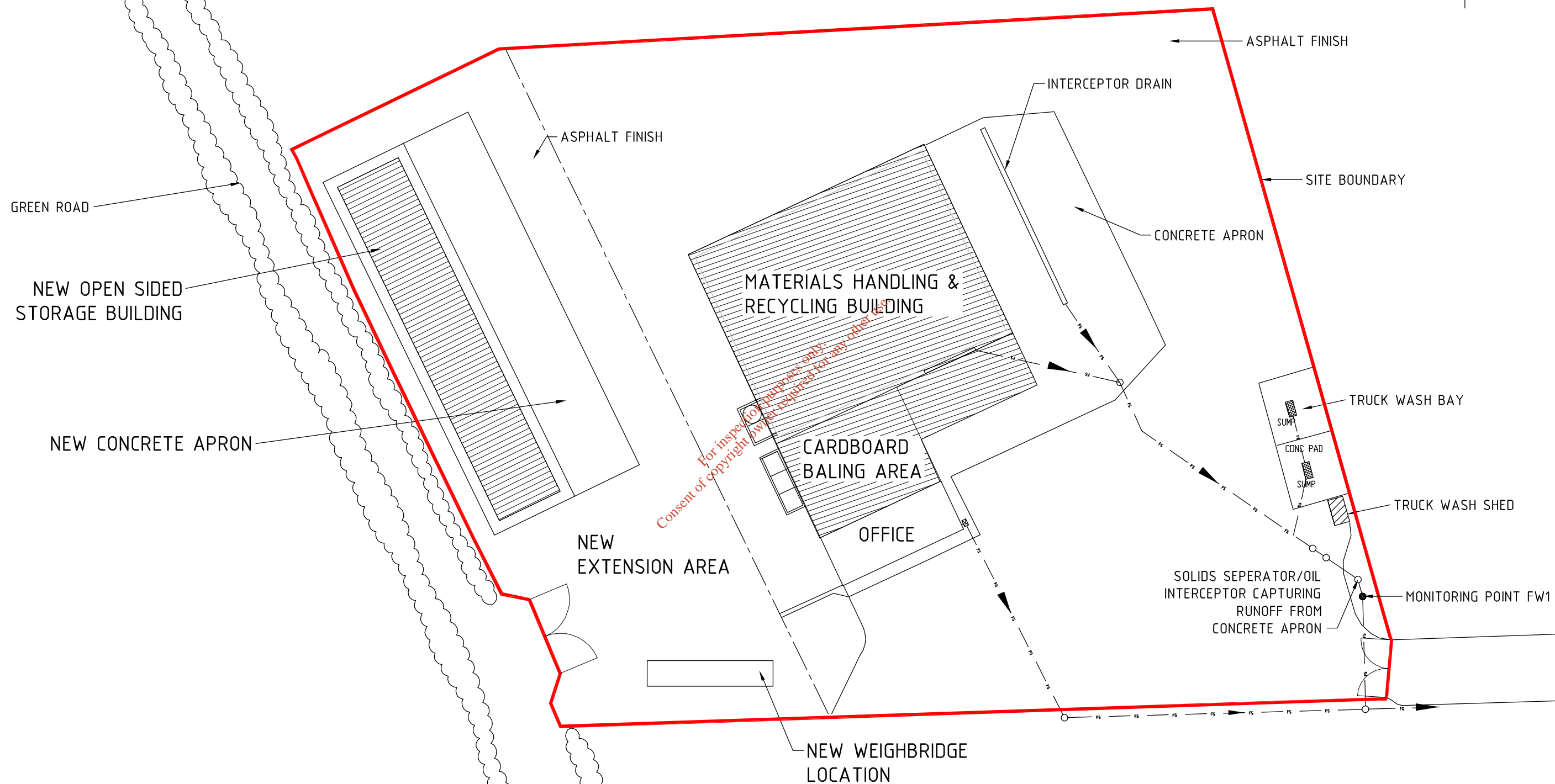
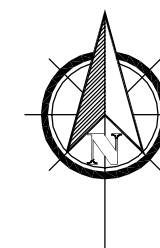
*Emission point reference number:* FWI

Parameter	Prior to treatment				As discharged				% Efficiency
	Max. hourly average (mg/l)	Max. daily average (mg/l)	kg/day	kg/year	Max. hourly average (mg/l)	Max. daily average (mg/l)	kg/day	kg/year	
pH (pH units)					6 – 9	6 – 9	-	-	Not Determined
Temperature (C)					18.0	18.0	-	-	Not Determined
BOD					400	400	0.98	357	Not Determined
COD					1100	1100	2.69	979	Not Determined
OFG					10	10	0.02	8.9	Not Determined
Suspended Solids					300	300	0.73	268	Not Determined
Conductivity(µS/cm)					1500	1500	-	-	Not Determined

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# FOUL WATER DRAINAGE SYSTEM

Scale 1:500



FOUL WATER MONITORING POINTS	
GRID REFERENCES	
FW1	258384 E, 109456 N

FIGURE B.2.c (Revision 1a)

# ATTACHMENT E4

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Please refer to Section 4.0 of the E.I.S.

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# ATTACHMENT E5

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Please refer to Sections 3.1.1, 3.2.1 & 3.3.1 of the EIS for particulars regarding noise emissions.

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**Table E.5(i): NOISE EMISSIONS - Noise sources summary sheet NOT APPLICABLE**

Source	Emission point Ref. No	Equipment Ref. No	Sound Pressure <sup>1</sup> dBA at reference distance	Octave bands (Hz) Sound Pressure <sup>1</sup> Levels dB(unweighted) per band								Impulsive or tonal qualities	Periods of Emission
				31.5	63	125	250	500	1K	2K	4K		

1. For items of plant sound power levels may be used.

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# ATTACHMENT E6

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### **Dust Control**

Please refer to Sections 3.1.3, 3.2.3 & 3.3.3 of the EIS for details on dust emissions.

### **Fire Control**

Please refer to Section 2.7.12 of the EIS for details on the fire control.

### **Litter Control**

Please refer to Sections 3.1.5, 3.2.5 & 3.3.5 of the EIS for details on litter.

### **Traffic Control**

Please refer to Sections 2.7.9, 3.1.2, 3.2.2 & 3.3.2 of the EIS for further details on traffic control.

### **Vermin Control**

Please refer to Sections 3.1.4, 3.2.4 & 3.3.4 of the EIS for further details on vermin control.

### **Road Cleansing**

Please refer to Section 5.3 of the EIS for further details on road cleansing.

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# ATTACHMENT F1

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***F.1: Treatment, Abatement and Control Systems***

The proposed technologies and other techniques for preventing or, where this is not possible, reducing emissions from the installation/facility are detailed in Section 3 & 5 of the EIS.

Please find the following drawings included overleaf:

Site Services Plan - Figure B3

Pest Control Systems – Figure D1g Rev1

Odour Control System – Figure F1a

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**TABLE F.1: ABATEMENT / TREATMENT CONTROL**

*Emission point reference number* : SWI

Control <sup>1</sup> parameter	Equipment <sup>2</sup>	Equipment maintenance	Equipment calibration	Equipment back-up
	Grit Traps Oil Interceptor	Desludged Desludged	None required None required	None required None required

Control <sup>1</sup> parameter	Monitoring to be carried out <sup>3</sup>	Monitoring equipment	Monitoring equipment calibration
	Ammonia Conductivity Visual Inspection	Potable Probe Portable Probe No equipment Required	Standard Methods Standard Methods No Calibration required

<sup>1</sup> List the operating parameters of the treatment / abatement system which control its function.

<sup>2</sup> List the equipment necessary for the proper function of the abatement / treatment system.

<sup>3</sup> List the monitoring of the control parameter to be carried out.

**TABLE F.1: ABATEMENT / TREATMENT CONTROL**

*Emission point reference number* : SW3

Control <sup>1</sup> parameter	Equipment <sup>2</sup>	Equipment maintenance	Equipment calibration	Equipment back-up
	Grit Traps	Desludged	None required	None required
	Oil Interceptor	Desludged	None required	None required

Control <sup>1</sup> parameter	Monitoring to be carried out <sup>3</sup>	Monitoring equipment	Monitoring equipment calibration
	Ammonia	Potable Probe	Standard Methods
	Conductivity	Portable Probe	Standard Methods
	Visual Inspection	No equipment Required	No Calibration required

<sup>1</sup> List the operating parameters of the treatment / abatement system which control its function.

<sup>2</sup> List the equipment necessary for the proper function of the abatement / treatment system.

<sup>3</sup> List the monitoring of the control parameter to be carried out.



**TABLE F.1: ABATEMENT / TREATMENT CONTROL**

*Emission point reference number* : FWI

Control <sup>1</sup> parameter	Equipment <sup>2</sup>	Equipment maintenance	Equipment calibration	Equipment back-up
	Grit Traps	Desludged	None required	None required
	Oil Interceptor	Desludged	None required	None required

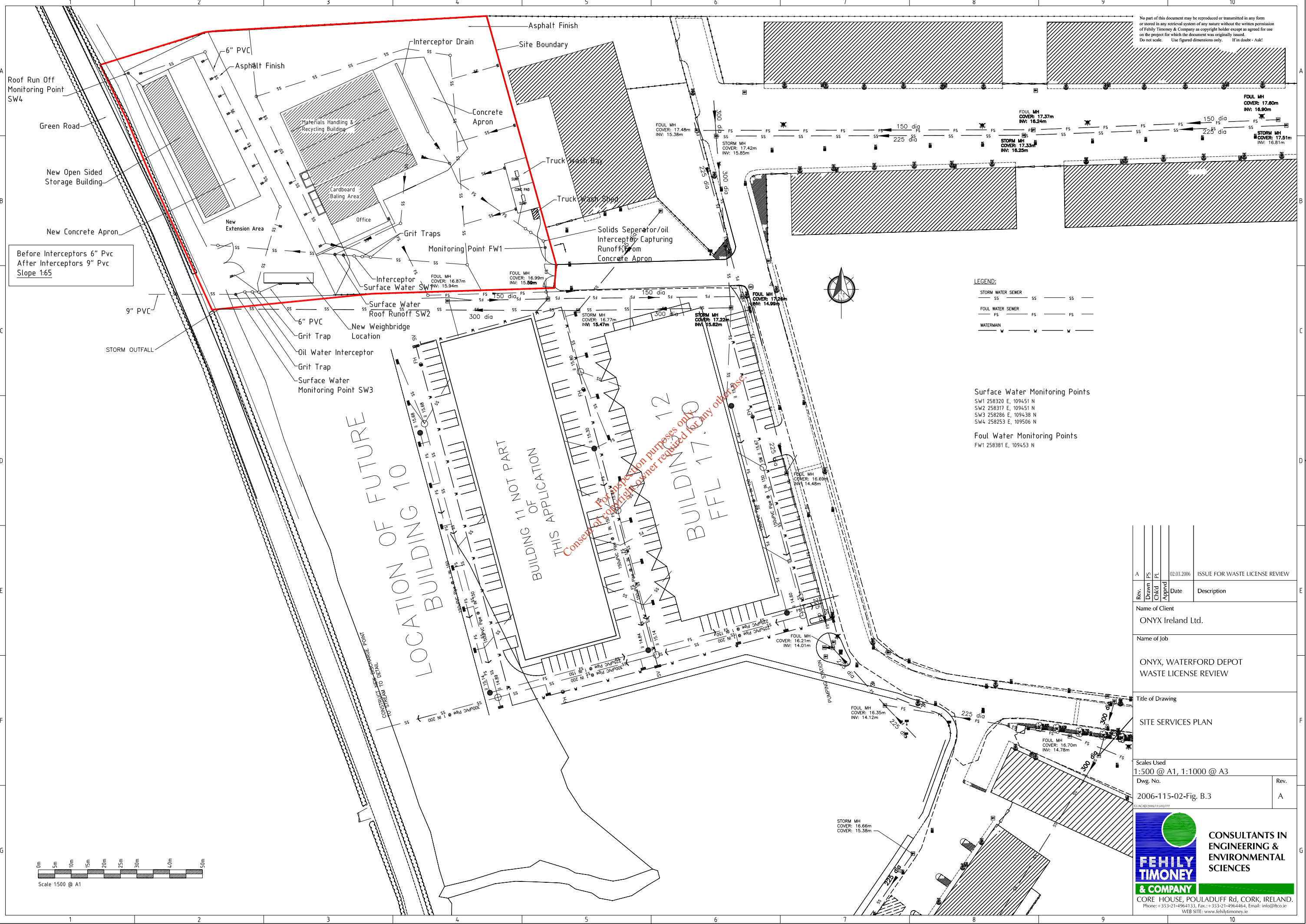
Control <sup>1</sup> parameter	Monitoring to be carried out <sup>3</sup>	Monitoring equipment	Monitoring equipment calibration
	pH	Potable Probe	Standard Methods
	Conductivity	Portable Probe	Standard Methods
	Flow	None	Calculated daily (water usage plus rainfall)
	COD		Standard Methods
	BOD Suspended Solids		Standard Methods
	OFG's		Standard Methods
	MBAS		Standard Methods
	Temperature	Temp. Probe	Standard Methods

<sup>1</sup> List the operating parameters of the treatment / abatement system which control its function.

<sup>2</sup> List the equipment necessary for the proper function of the abatement / treatment system.

<sup>3</sup> List the monitoring of the control parameter to be carried out.

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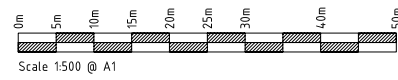


**LEGEND:**  
 STORM WATER SEWER: SS — SS —  
 FOUL WATER SEWER: FS — FS —  
 WATERMAIN: W — W —

**Surface Water Monitoring Points**  
 SW1 258320 E, 109451 N  
 SW2 258317 E, 109451 N  
 SW3 258286 E, 109438 N  
 SW4 258253 E, 109506 N

**Foul Water Monitoring Points**  
 FW1 258381 E, 109453 N

NATURAL SCALE



ORIGINAL DRAWING SIZE A1 - (841 x 594) NATURAL SCALE

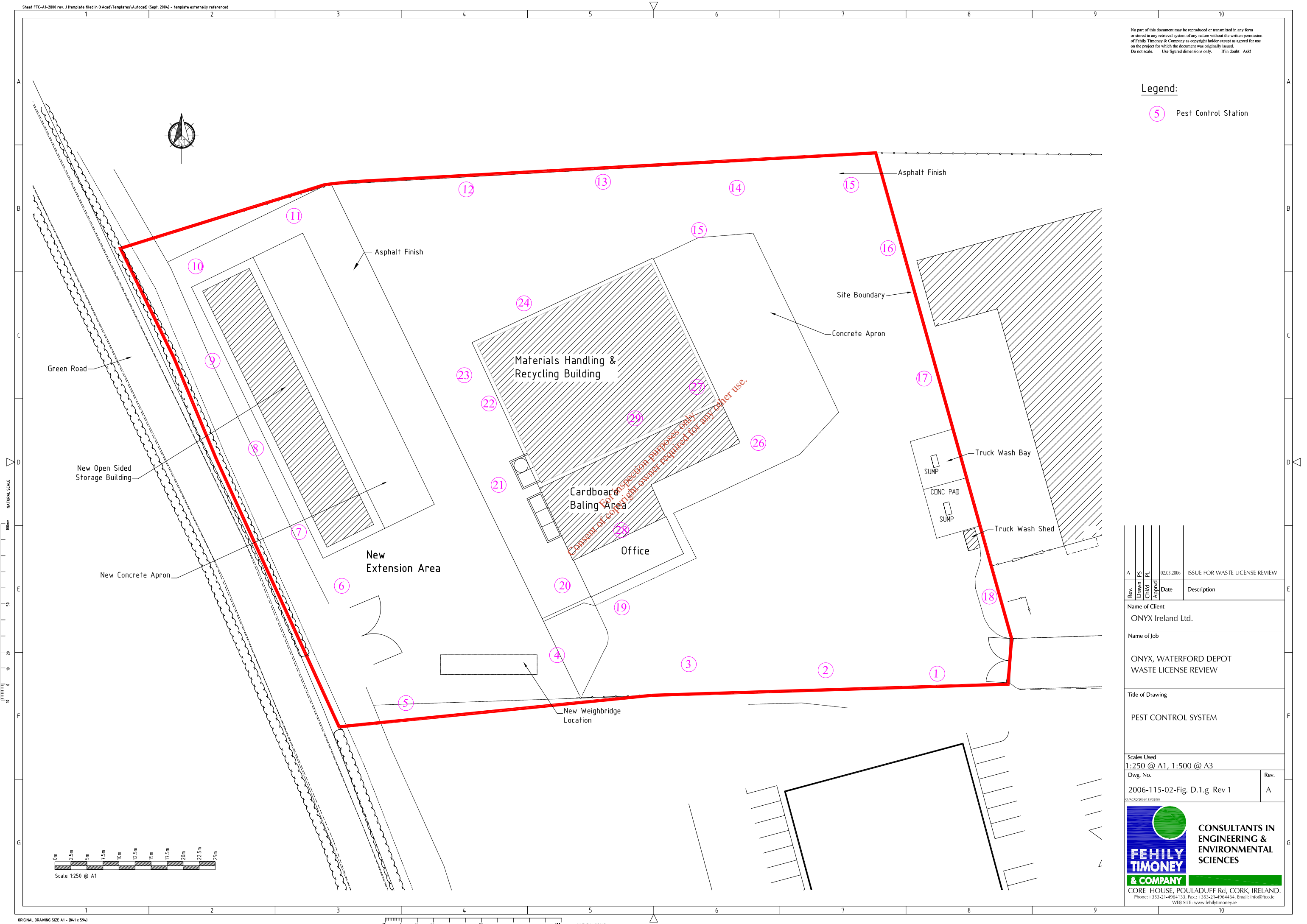
Rev.	Drawn	PS	CHKD	PL	Date	Description
A					02.03.2006	ISSUE FOR WASTE LICENSE REVIEW
Name of Client						
ONYX Ireland Ltd.						
Name of Job						
ONYX, WATERFORD DEPOT WASTE LICENSE REVIEW						
Title of Drawing						
SITE SERVICES PLAN						
Scales Used						
1:500 @ A1, 1:1000 @ A3						
Dwg. No.						
2006-115-02-Fig. B.3						
Rev.						
A						

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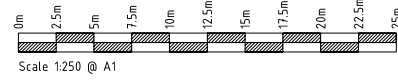
CORE HOUSE, POULADUFF Rd, CORK, IRELAND.  
 Phone: +353-21-4964133, Fax: +353-21-4964464, Email: info@ftco.ie  
 WEB SITE: www.fehilytimoney.ie

**Legend:**

(5) Pest Control Station

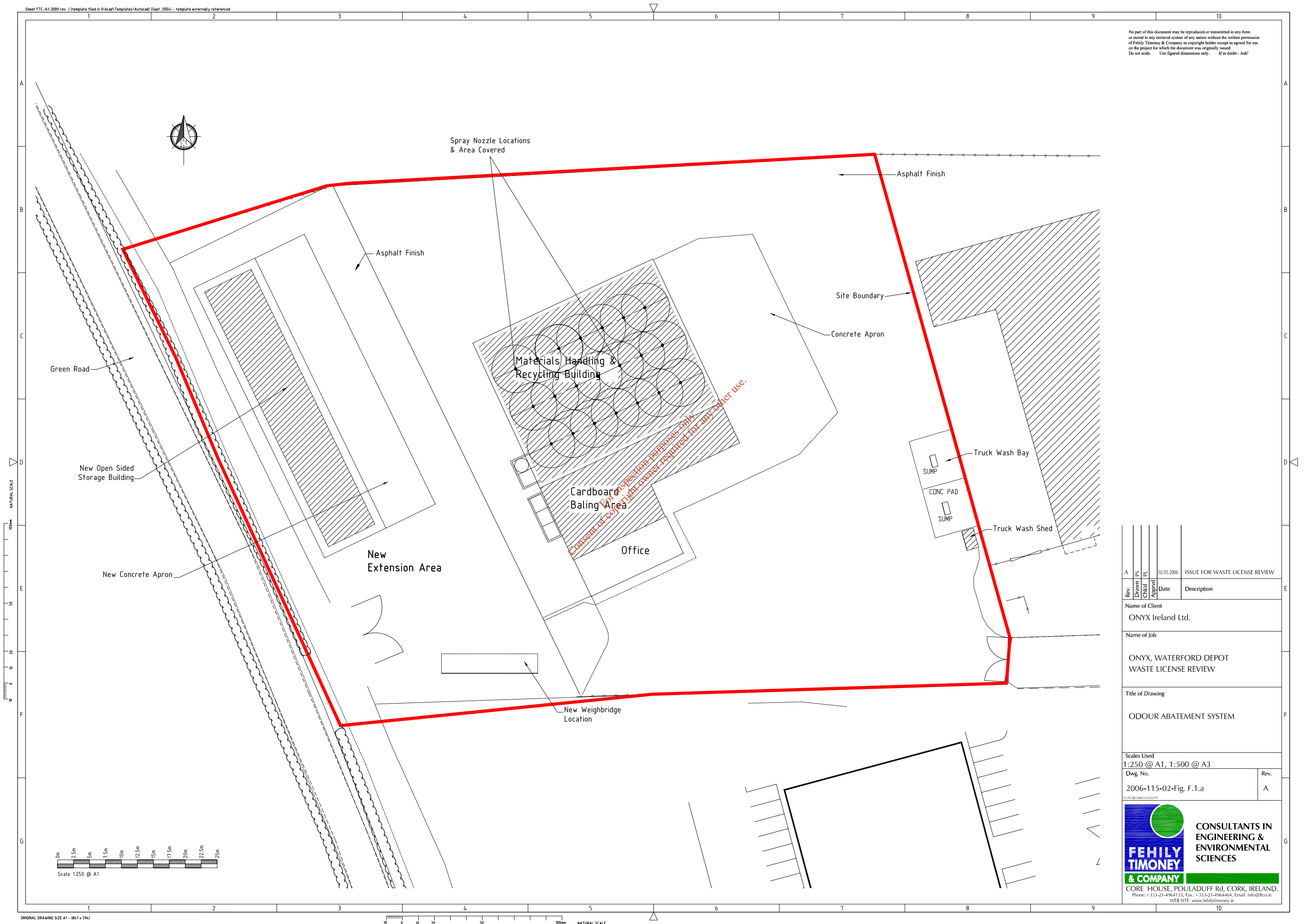



NATURAL SCALE



NATURAL SCALE

Rev.	Drawn	IS	PI	02.03.2006	ISSUE FOR WASTE LICENSE REVIEW
Checked	PI			Date	Description
Name of Client ONYS Ireland Ltd.					
Name of Job ONYS, WATERFORD DEPOT WASTE LICENSE REVIEW					
Title of Drawing PEST CONTROL SYSTEM					
Scales Used 1:250 @ A1, 1:500 @ A3					
Dwg. No. 2006-115-02-Fig. D.1.g Rev 1					Rev. A
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Rev.	Drawn	Chkd	Pl	Date	Description
A	JS	PL		02.03.2006	ISSUE FOR WASTE LICENSE REVIEW
Name of Client					
ONYX Ireland Ltd.					
Name of Job					
ONYX, WATERFORD DEPOT WASTE LICENSE REVIEW					
Title of Drawing					
ODOUR ABATEMENT SYSTEM					
Scales Used					
1:250 @ A1, 1:500 @ A3					
Dwg. No.					Rev.
2006-115-02-Fig. F.1.a					A
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## **F2-F9: Monitoring & Sampling Points**

Figure F2a Environmental Monitoring Points is included overleaf.

Tables F2-F7 are included overleaf.

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**TABLE F.2 to F.8 : EMISSIONS MONITORING AND SAMPLING POINTS  
( 1 table per media)**

*Emission Point Reference No(s).* : SW1, SW2, SW3, SW4

Parameter	Monitoring frequency	Accessibility of Sampling Points
Ammonia	Weekly	V.Good
Conductivity	Weekly	V.Good
Visual Inspection	Daily	V.Good

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**TABLE F.2 to F.8 : EMISSIONS MONITORING AND SAMPLING POINTS  
( 1 table per media)**

*Emission Point Reference No(s).* : FW1

Parameter	Monitoring frequency	Accessibility of Sampling Points
pH	Quarterly	V.Good
Flow	Daily	V.Good
Temperature	Quarterly	V.Good
COD	Quarterly	V.Good
BOD	Quarterly	V.Good
Total Suspended Solid	Quarterly	V.Good
OFG	Quarterly	V.Good
Conductivity	Quarterly	V.Good
MBAS	Quarterly	V.Good

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**TABLE Ff: Fugitive ENVIRONMENT MONITORING AND SAMPLING LOCATIONS ( 1 table per media)**

*Monitoring Point Reference No :*           **D1 – D3**          

Parameter	Monitoring frequency	Accessibility of Sampling point
Dust Deposition	3 times per year	Very Good

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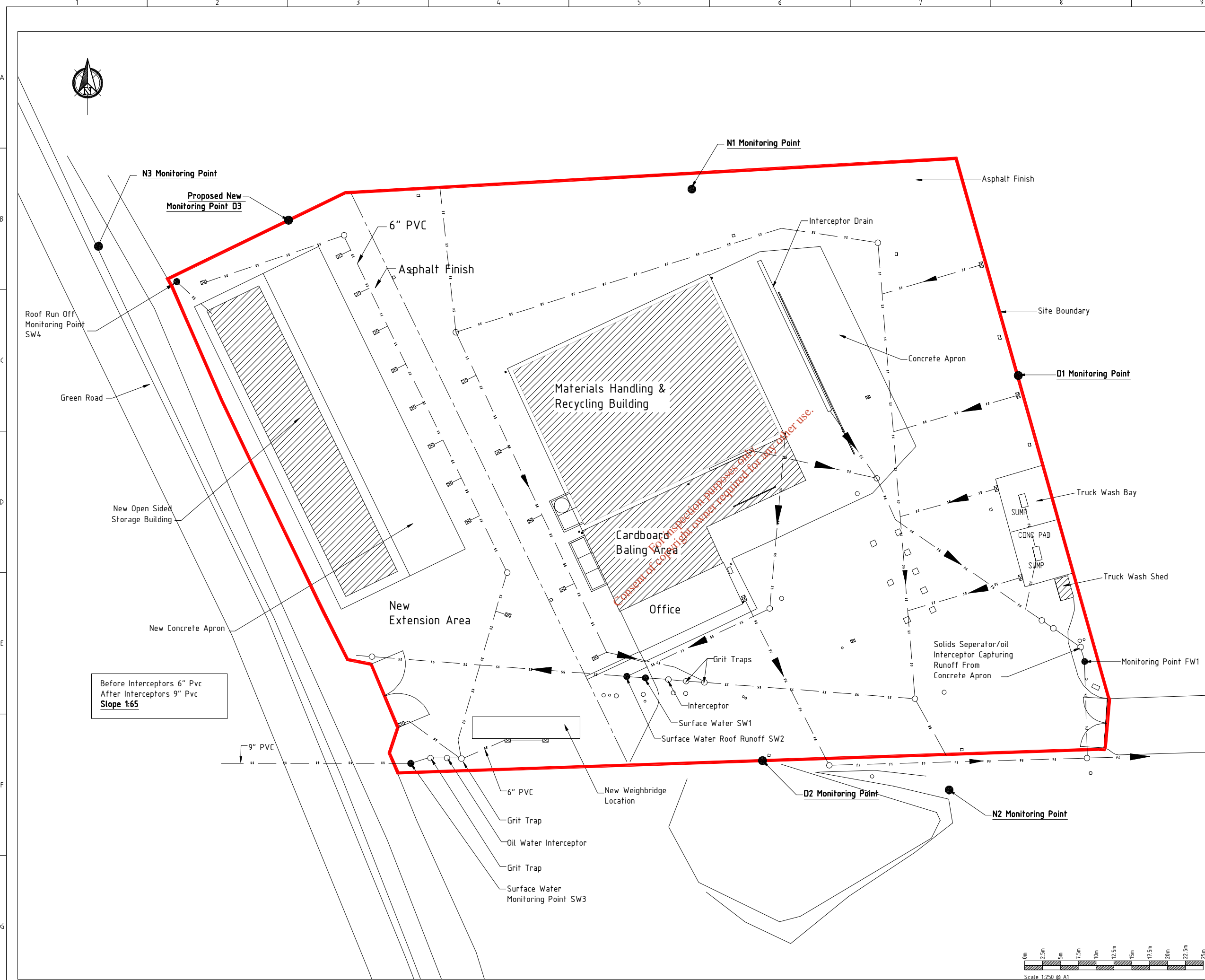


**TABLE Ff: Fugitive ENVIRONMENT MONITORING AND SAMPLING LOCATIONS ( 1 table per media)**

Monitoring Point Reference No :           N1 – N3          

Parameter	Monitoring frequency	Accessibility of Sampling point
Noise LA <sub>EQ</sub> (30 minutes)	3 times per year	Very Good

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**Surface Water Monitoring Points**

- SW1 258320 E, 109451 N
- SW2 258317 E, 109451 N
- SW3 258286 E, 109438 N
- SW4 258253 E, 109506 N

**Foul Water Monitoring Points**

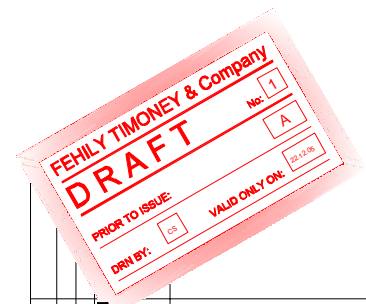
- FW1 258381 E, 109453 N

**Dust Monitoring Points**

- D1 258372 E, 109493 N
- D2 258336 E, 109440 N
- D3 258269 E, 109514 N

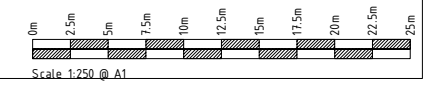
**Noise Monitoring Points**

- N1 258326 E, 109519 N
- N2 258362 E, 109435 N
- N3 258243 E, 109511 N



Rev.	Drawn	Checked	Approved	Date	Description
					Name of Client ONX Ireland Ltd.
					Name of Job EPA Regulatory Report
					Title of Drawing Environmental Monitoring Points
					Scales Used 1:250 @ A1, 1:500 @ A3
					Dwg. No. 2004-115-05-Fig7
					Rev. A

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# ATTACHMENT G1

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## G1.

### Raw Materials and Products Data

<b>Raw Material</b>	<b>Units</b>	<b>Storage Location</b>	<b>Volume Stored</b>	<b>Consumption/annum 2005</b>	<b>Supplier</b>
<b>Water</b>	M <sup>3</sup>	Local Authority	-	272	<b>Waterford City Council</b>
<b>Odour Neutraliser</b>	Litres	Transfer Station Bund	200	400	<b>North Chemicals</b>
<b>Traffic Film Remover</b>	Litres	Truck wash shed	125	800	<b>Murco Chemicals</b>
<b>Disinfectant</b>	Litres	Transfer Station Bund	50	100	<b>Murco Chemicals</b>
<b>Hydraulic Oil</b>	Litres	Transfer Station Bund	2000	4,000	<b>Maxol</b>
<b>Engine Oil</b>	Litres	Transfer Station Bund	2000	700	<b>Maxol</b>
<b>Diesel Oil</b>	Litres	Transfer Station Bund	2000	18,000	<b>Vale Oil</b>

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**Table G.1 Details of Process related Raw Materials, Intermediates, Products, etc., used or generated on the site**

<b>Ref. N° or Code</b>	<b>Material/ Substance<sup>(1)</sup></b>	<b>CAS Number</b>	<b>Danger<sup>(2)</sup> Category</b>	<b>Amount Stored (tonnes)</b>	<b>Annual Usage (tonnes)</b>	<b>Nature of Use</b>	<b>R<sup>(3)</sup> - Phrase</b>	<b>S<sup>(3)</sup> - Phrase</b>
	Clean Air -25			0.2	0.4	Odour neutraliser		
	Clint SK Traffic Film Remover			0.125	0.80	Traffic Film remover		
	Clint Detergent			0.05	0.1	Bin Cleaning		
	Hydraulic Oil			2.0	4.0	On-site plant equipment		
	Engine Oil			2.0	0.7	On-site plant equipment		
	Diesel Oil			2.0	14.6	Fuel for On-site plant Equipment	R-40	

- Notes:
1. In cases where a material comprises a number of distinct and available dangerous substances, please give details for each component substance.
  2. c.f. Article 2(2) of SI N° 77/94
  3. c.f. Schedules 2 and 3 of SI N° 77/94

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# ATTACHMENT G2

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**G2.**

**Energy Efficiency**

Energy consumption for 2005 was 107,617kWh. The principal usage was for the operation of the baler and lighting. In 2006 it is intended to source a new baler (current baler is c.20yrs old) which will be more energy efficient. The on-site lighting is operated on photocells to minimize electricity consumption. All office lighting is turned off at close of business.

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# ATTACHMENT H1

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**TABLE H.1(i): WASTE - Hazardous Waste Recovery/Disposal NOT APPLICABLE**

Waste material	EWC Code	Main source <sup>1</sup>	Quantity		On-site Recovery/Disposal (Method & Location )	Off-site Recovery, reuse or recycling (Method, Location & Undertaker)	Off-site Disposal (Method, Location & Undertaker)
			Tonnes / month	m <sup>3</sup> / month			

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<sup>1</sup> A reference should be made to the main activity / process for each waste.

**TABLE H.1(ii) WASTE - Other Waste Recovery/Disposal**

Waste material	EWC Code	Main source <sup>1</sup>	Quantity		On-site recovery/disposal <sup>2</sup> (Method & Location)	Off-site Recovery, reuse or recycling (Method, Location & Undertaker)	Off-site Disposal (Method, Location & Undertaker)
			Tonnes / month	m <sup>3</sup> / month			
Brewing Waste	020701	Brewing Industry	c. 3.5		See EIS Section 2.3 -2.6	See EIS Section 2.3 -2.6	See EIS Section 2.3 -2.6
Bottom Ash	100101	Combustion Plant	Once off				
Cardboard	150101	Commercial Facilities	c. 325				
Plastic	150102	Commercial Facilities	c. 30				
Timber packaging	150103	Commercial Facilities	c. 45				
Mixed Packaging	150106	Commercial Facilities	c. 55				
Tiles and ceramics	170103	Building Developments	once off				
Mixed C&D Materials	170107	Building Developments	c.80				
Aluminium	170402	Building Developments	c.3.0				
Mixed C&D wastes	170904	Building Developments	c.55				
Wastes from aerobic treatment of solid wastes	<b>1905</b>	Composting Facility	54				

1 A reference should be made to the main activity/ process for each waste.

2 The method of disposal or recovery should be clearly described and referenced to Attachment H.1

***Note: These were the waste types accepted at the facility in 2005 and may differ somewhat in 2006 depending on the company development. Only Non-hazardous waste is accepted.***

**TABLE H.1(ii) WASTE - Other Waste Recovery/Disposal (cont)**

Waste material	EWC Code	Main source <sup>1</sup>	Quantity		On-site recovery/disposal <sup>2</sup> (Method & Location)	Off-site Recovery, reuse or recycling (Method, Location & Undertaker)	Off-site Disposal (Method, Location & Undertaker)
			Tonnes / month	m <sup>3</sup> / month			
Paper	200101	Commercial Facilities	c.180		See EIS Section 2.3 -2.6	See EIS Section 2.3 -2.6	See EIS Section 2.3 -2.6
Glass	200102	Commercial Facilities	c.10				
Biodegradable kitchen waste	200108	Commercial & Household	c.30				
Textiles	200111	Commercial & Household	c.4.0				
Non-haz electrical goods	200136	CA Facilities	c.40				
Wood	200138	Commercial Facilities	c.30				
Plastics	200139	Commercial Facilities	c.3				
Metals	200140	Commercial Facilities	c.60				
Soil and Stones	200202	Commercial & Household	Once off				
Mixed Municipal Waste	200301	Commercial & Household	c.1700				
Street Cleaning Waste	200303	Street Cleaning	c.1				

3 A reference should be made to the main activity/ process for each waste

4 The method of disposal or recovery should be clearly described and referenced to Attachment H.1

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***Note: These were the waste types accepted at the facility in 2005 and may differ somewhat in 2006 depending on the company***

***Development. Only Non-hazardous waste is accepted.***

# ATTACHMENT H2

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## H2

Please refer to Section 2.5 of the EIS.

Weighbridge dockets are an integral part of recording waste as a condition of the licence. Please see copy of weighbridge docket overleaf.

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Onyx Ireland Ltd

Ballymount Cross, Tallaght  
Dublin 24, Ireland  
Tel. Admin: (01) 413 6600  
Fax Admin: (01) 413 6502  
Tel. Operations: (01) 413 6565  
Fax Operations: (01) 413 6699  
Email: service@iposte.ie



418751



DISPOSAL DOCKET

DATE: \_\_\_\_\_

VEHICLE REGISTRATION: \_\_\_\_\_

BIN SIZE: \_\_\_\_\_

WEIGHT: \_\_\_\_\_

WEIGHT DOCKET NO: \_\_\_\_\_

DISPOSAL SITE: \_\_\_\_\_

BONUS: \_\_\_\_\_

Terms and Conditions available on request

Onyx Ireland Ltd

Ballymount Cross, Tallaght  
Dublin 24, Ireland  
Tel. Admin: (01) 413 6600  
Fax Admin: (01) 413 6502  
Tel. Operations: (01) 413 6565  
Fax Operations: (01) 413 6699  
Email: service@iposte.ie



418751



Dublin City Council Permit No.: CPD891 Kildare County Council Permit No.: WCPKE064C-02 b  
Meath County Council Permit No.: MFB001/1100

SERVICE DOCKET

DATE: \_\_\_\_\_ TIME: \_\_\_\_\_

DROP  EXCHANGE  SERVICE  REMOVAL  PICK-UP

CLIENT & LOCATION: \_\_\_\_\_

VEHICLE REGISTRATION: \_\_\_\_\_

REL/FEL: Op.  Cl.  Mini  Wheelie  Bale  Bags

RORO: Static  Portable  Large  Flat

SKIP: Static  Portable  Large  Flat

SERVICE: PERMANENT  CASUAL

WASTE: Paper  Gen.  Crt.  Wood  Plastic  Metal  Rubble   
EWC: 200101  200801  150101  200135  150102  200140  170107

COMMENTS: \_\_\_\_\_

SIGNATURE OF CLIENT: \_\_\_\_\_

PRINT \_\_\_\_\_ DRIVER: \_\_\_\_\_

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# ATTACHMENT H3

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H3

Please refer to Section 2.6 of the EIS for information relating to waste handling.

Please refer to Section 2.7.4 of the EIS for information relating to plant equipment.

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# ATTACHMENT I1

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## **I1 – Assessment of Atmospheric Emissions**

Please refer to Sections 3.1.3, 3.2.3 & 3.3.3 of the EIS for information relating to Assessment of atmospheric emissions.

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# ATTACHMENT I2

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## **I2 – Assessment of Impacts of Surface Water discharges on the receiving waters**

Please see tables overleaf.

Please refer to Section 5 of the EIS for information relating to Assessment of impacts of surface water discharges on the receiving waters.

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**Table I.2(i) SURFACE WATER QUALITY**

(Sheet 1 of 2) Monitoring Point/ Grid Reference: \_\_\_\_\_SW1\_\_\_\_\_

Parameter	Results (mg/l)				Sampling method <sup>2</sup> (grab, drift etc.)	Normal Analytical Range <sup>2</sup>	Analysis method / technique
	21/12/04	24/03/05	07/06/05	21/09/05			
pH	7.1	7.0	7.2	7.6	Grab		pH meter
Temperature	8.3	11.1	16.6	12.3	Grab		Temp Probe
Electrical conductivity EC	146	N/A	N/A	N/A	Grab		Cond. Meter
Ammoniacal nitrogen NH <sub>4</sub> -N							
Chemical oxygen demand	<10	<10	<10	<10	Grab		G/03*
Biochemical oxygen demand	6	7	5	4	Grab		G/04*
OFG (mg/l)	-	<10	<10	<10	Grab		Std. Method 5520B
Suspended Solids (mg/l)	23	36	<5	17	Grab		Std. Method 2450D
Cadmium Cd							
Chromium Cr							
Chloride Cl							
Copper Cu							
Iron Fe							
Lead Pb							
Magnesium Mg							
Manganese Mn							
Mercury Hg							

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Surface Water Quality (Sheet 2 of 2)

Parameter	Results (mg/l)				Sampling method (grab, drift etc.)	Normal Analytical Range	Analysis method / technique
	Date	Date	Date	Date			
Nickel Ni							
Potassium K							
Sodium Na							
Sulphate SO <sub>4</sub>							
Zinc Zn							
Total alkalinity (as CaCO <sub>3</sub> )							
Total organic carbon TOC							
Total oxidised nitrogen TON							
Nitrite NO <sub>2</sub>							
Nitrate NO <sub>3</sub>							
Faecal coliforms ( /100mls)							
Total coliforms ( /100mls)							
Phosphate PO <sub>4</sub>							

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\* *G/ Accredited Standard Method carried out by BNM Environmental Ltd.  
All other methods listed are based on APHA, ASTM, OSHA, NIOSH, or USEPA methods carried out by BNM Environmental Ltd.*

**Table I.2(i) SURFACE WATER QUALITY**

(Sheet 1 of 2) Monitoring Point/ Grid Reference: \_\_\_\_\_SW2\_\_\_\_\_

Parameter	Results (mg/l)				Sampling method <sup>2</sup> (grab, drift etc.)	Normal Analytical Range <sup>2</sup>	Analysis method / technique
	21/12/04	24/03/05	07/06/05	21/09/05			
pH	6.4	7.3	6.9	7.5	Grab		pH meter
Temperature	8.0	11.4	16	12.6	Grab		Temp Probe
Electrical conductivity EC	83	N/A	N/A	N/A	Grab		Cond. Meter
Ammoniacal nitrogen NH <sub>4</sub> -N							
Chemical oxygen demand	<10	<10	<10	<10	Grab		G/03*
Biochemical oxygen demand	2	2	23	2	Grab		G/04*
OFG (mg/l)	-	<10	<10	<10	Grab		Std. Method 5520B
Suspended Solids (mg/l)	7	8	5	<5	Grab		Std. Method 2450D
Cadmium Cd							
Chromium Cr							
Chloride Cl							
Copper Cu							
Iron Fe							
Lead Pb							
Magnesium Mg							
Manganese Mn							
Mercury Hg							

Surface Water Quality (Sheet 2 of 2)

Parameter	Results (mg/l)				Sampling method (grab, drift etc.)	Normal Analytical Range	Analysis method / technique
	Date	Date	Date	Date			
Nickel Ni							
Potassium K							
Sodium Na							
Sulphate SO <sub>4</sub>							
Zinc Zn							
Total alkalinity (as CaCO <sub>3</sub> )							
Total organic carbon TOC							
Total oxidised nitrogen TON							
Nitrite NO <sub>2</sub>							
Nitrate NO <sub>3</sub>							
Faecal coliforms ( /100mls)							
Total coliforms ( /100mls)							
Phosphate PO <sub>4</sub>							

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### Table I.2(i) SURFACE WATER QUALITY

(Sheet 1 of 2) Monitoring Point/ Grid Reference: \_\_\_\_\_SW3\_\_\_\_\_

Parameter	Results (mg/l)				Sampling method <sup>2</sup> (grab, drift etc.)	Normal Analytical Range <sup>2</sup>	Analysis method / technique
	23/01/06						
pH					Grab		
Temperature					Grab		Temp Probe
Electrical conductivity EC	406 us				Grab		Cond. Meter
Ammoniacal nitrogen NH <sub>4</sub> -N	1.4mg/l NH <sub>3</sub> N				Grab		Probe
Chemical oxygen demand							
Biochemical oxygen demand							
OFG (mg/l)							
Suspended Solids (mg/l)							
Cadmium Cd							
Chromium Cr							
Chloride Cl							
Copper Cu							
Iron Fe							
Lead Pb							
Magnesium Mg							
Manganese Mn							
Mercury Hg							

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Surface Water Quality (Sheet 2 of 2)

Parameter	Results (mg/l)				Sampling method (grab, drift etc.)	Normal Analytical Range	Analysis method / technique
	Date	Date	Date	Date			
Nickel Ni							
Potassium K							
Sodium Na							
Sulphate SO <sub>4</sub>							
Zinc Zn							
Total alkalinity (as CaCO <sub>3</sub> )							
Total organic carbon TOC							
Total oxidised nitrogen TON							
Nitrite NO <sub>2</sub>							
Nitrate NO <sub>3</sub>							
Faecal coliforms ( /100mls)							
Total coliforms ( /100mls)							
Phosphate PO <sub>4</sub>							

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**Table I.2(i) SURFACE WATER QUALITY**

(Sheet 1 of 2) Monitoring Point/ Grid Reference: \_\_\_\_\_SW4\_\_\_\_\_

Parameter	Results (mg/l)				Sampling method <sup>2</sup> (grab, drift etc.)	Normal Analytical Range <sup>2</sup>	Analysis method / technique
	23/01/06						
pH					Grab		
Temperature					Grab		Temp Probe
Electrical conductivity EC	270 us				Grab		Cond. Meter
Ammoniacal nitrogen NH <sub>4</sub> -N	0.51 mg/l NH <sub>3</sub> N				Grab		Probe
Chemical oxygen demand							
Biochemical oxygen demand							
OFG (mg/l)							
Suspended Solids (mg/l)							
Cadmium Cd							
Chromium Cr							
Chloride Cl							
Copper Cu							
Iron Fe							
Lead Pb							
Magnesium Mg							
Manganese Mn							
Mercury Hg							

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Surface Water Quality (Sheet 2 of 2)

Parameter	Results (mg/l)				Sampling method (grab, drift etc.)	Normal Analytical Range	Analysis method / technique
	Date	Date	Date	Date			
Nickel Ni							
Potassium K							
Sodium Na							
Sulphate SO <sub>4</sub>							
Zinc Zn							
Total alkalinity (as CaCO <sub>3</sub> )							
Total organic carbon TOC							
Total oxidised nitrogen TON							
Nitrite NO <sub>2</sub>							
Nitrate NO <sub>3</sub>							
Faecal coliforms ( /100mls)							
Total coliforms ( /100mls)							
Phosphate PO <sub>4</sub>							

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# ATTACHMENT I3

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### **I3-Assessment of Impact on receiving sewer**

Please refer to Section 5 of the EIS for information on Assessment of impact on receiving sewer.

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# ATTACHMENT I4

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Please refer to Section 4.0 of the EIS.

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# ATTACHMENT I5

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## **I5 – Ground and/or groundwater contamination**

Please refer to Section 4 of the EIS for information regarding ground water contamination.

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# ATTACHMENT I6

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## **I6 – Noise Impact**

Please see table overleaf.

Please refer to Sections 3.1.1, 3.2.1 & 3.3.1 of the EIS.

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**Table I.6(i) Ambient Noise Assessment**

*Third Octave analysis for noise emissions should be used to determine tonal noises*

	National Grid Reference	Sound Pressure Levels					
	(5N, 5E)	L(A) <sub>eq</sub>		L(A) <sub>10</sub>		L(A) <sub>90</sub>	
<b>1. SITE BOUNDARY</b>		Day Time	Night Time	Day Time	Night Time	Day Time	Night Time
<b>Location 1:</b>	258326E, 109519N	64	46	150	49	54	45
<b>Location 2:</b>	258362E, 109435N	64	47	62	49	58	44
<b>Location 3:</b>	258243E, 109511N	55	46	68	51	48	43
<b>Location 4:</b>							
<b>2. NOISE SENSITIVE LOCATIONS</b>							
<b>Location 1:</b>							
<b>Location 2:</b>							
<b>Location 3:</b>							
<b>Location 4:</b>							

NOTE: All locations should be identified on accompanying drawings.

No relevant noise Sensitive Locations due to distance and other activities occurring between the Onyx facility and the noise sensitive areas.

# ATTACHMENT I7

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## **I7 – Ecological Impacts and Mitigation Measures**

Please refer to Section 8 of the EIS.

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# ATTACHMENT J

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## **J**

Please see Emergency Response Procedures overleaf for:

- minimizing the impact on the environment of an accidental emission or spillage
- the response to emergency situations outside of normal working hours, i.e. during night-time, weekends and holiday periods.
- the arrangements for abnormal operating conditions including start-up, leaks, malfunctions or momentary stoppages.

### **Public Liability Insurance**

Please find overleaf a letter from our insurance company showing our levels of public liability insurance. Environmental Liability is covered as part of the general liability programme.

### **Bund Testing**

Please see letter overleaf confirming that the Bunds on site are leak proof.

A Fire Risk Assessment and Environmental Liability Assessment were carried out and copies of both reports are also included overleaf.

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**To Whom It May Concern**6<sup>th</sup> January 06**Re: Oynx Ireland Limited, Ballymount Cross, Tallaght, Dublin . 24**

We act as Insurance Brokers to the above client in respect of their Liability insurance and set out below details of cover currently in place.

**Public/Products Liability**

**Insurer :** Codeve Insurance Company Limited  
**Policy No:** 2005/CGL/IR/0014 and 2005/CGL/IR0001  
**Renewal Date :** 1<sup>st</sup> July 2006  
**Business :** Waste Management and Recycling Company  
**Indemnity :** €5,000,000 any one event and in the aggregate .  
**Deductible :** €30,000 each and every property damage claim

In addition protection is afforded under the parent company Global Programme in excess of above Policy .

**Insurer :** AXA Corporate Solutions Assurance  
**Policy No :** 150 155 033 20  
**Indemnity :** €45,000,000 any one event in excess of above Policy

**Employers Liability**

**Insurer:** Codeve Insurance Company Ltd  
**Policy No:** 2006/EL/IR/0006  
**Renewal Date:** 1<sup>st</sup> January 2007  
**Indemnity:** €25,000,000 any one accident.  
**Deductible:** €50,000 each & every claim - €250,000 aggregate

Yours sincerely



**John O'Neill**  
**Director**  
**(Direct Line: 6059305)**  
**E-mail: john\_o\_neill@aon.ie**

# **WILLIAM HOGAN & Associates Architects**

St. Catherines Hall, Catherine Street, Waterford.  
Tel: (051) 853633/841242 • Fax: (051) 841242 • Mobile: 087 2227652

Mr. Michael Storan,  
I.P.O.D.E.C. Ltd.,  
Six Cross Roads Business Park,  
Kilbarry,  
Waterford.

27<sup>th</sup> February 2002

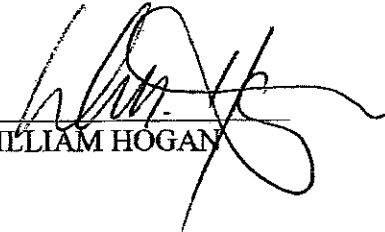
**Re: I.P.O.D.E.C. Ltd. – Bunding to oil tanks.**

Dear Mr. Storan,

I William Hogan Architect hereby confirm that I carried out a visual inspection of the above bunding on Friday 22<sup>nd</sup> February 2002.

I further confirm that the said bunding is leakproof, a flooding test having been carried out over a 1 month period.

Yours sincerely,

  
WILLIAM HOGAN

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**Onyx Ireland Ltd**

14A Six Cross Roads Business Park  
Waterford  
Tel 051 333944  
Fax 051 333945  
Email info@onyxgroup.ie  
Website www.onyxgroup.ie

Atten: Caitriona Cleary Fax: 01-4136502  
From: Mich Storan. Pgs: 1 of 2

Burd integrity test

As Requested

(4 yrs old now!)

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Rgds,

Mich



# **WILLIAM HOGAN & Associates** **Architects**

St. Catherines Hall, Catherine Street, Waterford.

Tel: (051) 853633 • Fax: (051) 841242 • Mobile: 087 2227652 • wfhog@eircom.net

Mr. Michael Storan  
ONYX Ireland Ltd.,  
Six Cross Roads Business Park  
Kilbarry  
WATERFORD

14/2/06

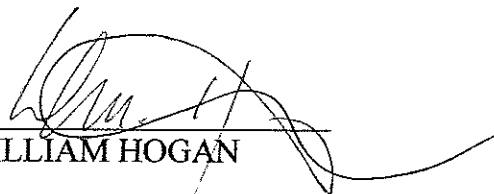
**Re: ONYX Ireland Ltd, - Bunding to Oil Tanks**  
**Our Ref: 694/97**

Dear Mr. Storan,

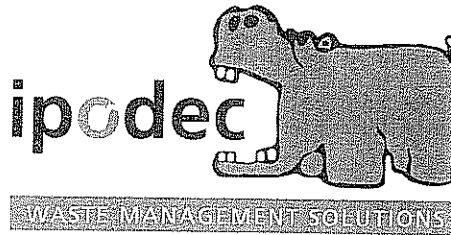
I, William Hogan, Architect hereby confirm that I carried out a visual inspection at the above building on Tuesday 14<sup>th</sup> February 2006.

I further confirm that the said bunding is leakproof, a flooding test having been carried out over a 1 month period.

Yours sincerely,

  
WILLIAM HOGAN

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## **FIRE RISK ASSESSMENT**

**AT**

**IPODEC IRELAND LTD.  
WASTE TRANSFER STATION  
AT  
SIX CROSS ROADS, WATERFORD**

**Copy**

**EPA Ref. 177 - 1**

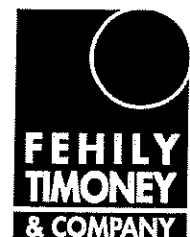
**Prepared for:**

IPODEC Ireland Ltd.  
Six Cross Roads  
Waterford

**Prepared by:**

Fehily Timoney & Company  
Core House  
Pouladuff Road  
Cork

**July 2004**



# FIRE RISK ASSESSMENT

AT

IPODEC IRELAND LTD.  
WASTE TRANSFER STATION  
AT  
SIX CROSS ROADS, WATERFORD

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**User is Responsible for Checking The Revision Status Of This Document**

Rev. Nr.	Description of Changes	Prepared by:	Checked by:	Approved by:	Date:
0	Issued to Client	DF	DE	DE	12/07/04

Client: IPODEC Ireland Ltd.

Keywords: Firewater, Risk Assessment, IPODEC, EPA, Waste Transfer Station

Abstract: This report presents the findings and recommendations of a fire risk assessment and a firewater retention study carried out at IPODEC Ireland's waste transfer station at Six Cross Roads, Waterford.

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## 1. INTRODUCTION

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### 1.1. Scope

As a condition of the site waste licence (EPA Reference No. 177-1), IPODEC Ireland is required to carry out a Fire Risk Assessment (FRA) of their materials recovery and waste transfer facility at Six Cross Roads, Waterford. This risk assessment will determine the requirements at the facility for fire fighting and firewater retention. IPODEC has retained Fehily Timoney & Company (FTC) to carry out the assessment.

Waterford City Council (WCC) Fire Brigade was consulted during the preparation of this report concerning the fire brigade's emergency response procedures and the capacity of site's fire hydrants. This FRA has been prepared to comply with the requirements of Condition 8.2 of the site waste licence (177-1). Regard was had to the draft EPA guidelines on Firewater Retention Facilities, which includes guidance on risk assessments to determine the need for firewater retention, during the preparation of this report. A preliminary firewater risk assessment was carried out for the facility by RPS Environmental Sciences Ltd. in March 2001. This report builds on the findings of the RPS report. A consultant from FTC inspected the site on 16<sup>th</sup> April 2004.

The activities carried out as part of the site assessment were:

- A review of the preliminary fire risk assessment for the site, EIS, waste licence and other documentation relating to the existing site
- A review of plans for site expansion
- The identification of potential fire hazards in each area of the site
- An assessment of fire detection and control measures on site
- A fire risk assessment for each site area
- Consultation with Waterford City Fire Brigade
- A firewater risk assessment and the requirement for firewater retention
- Make recommendations for fire fighting, fire prevention and fire water retention

---

## 2. SITE DESCRIPTION

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### 2.1. Physical Layout

The current site is located in the Six Cross Roads Business Park, Carrignard, Co. Waterford and covers an area of approximately 0.6 ha. There are plans to extend the storage yard of the facility to include an additional 0.25 ha to the rear of the facility. This area will be a hardstand area and will include 5 open air bunkers for the separate storage of recyclable materials. The materials handling facility and offices cover approximately 1,045 m<sup>2</sup> of the site with the remainder of the site being used for skip storage, truck movement and parking, storage of recovered cardboard, plastic, paper, metal and timber and for car parking. The Material Handling and Recycling Building (MHRB) will be expanded in the near future to accommodate a truck loading bay and additional storage space on site. The new footprint area of the entire building will be approximately 1,420 m<sup>2</sup>. In addition, banded fuel storage facilities, a truck wash bay and a weighbridge are located on the premises. The entire site is enclosed by palisade fencing. The surrounding land is occupied by industrial premises and farm land. A proposed biological waste facility is under construction in the adjacent plot to the facility.

Prior to the construction of the IPODEC facility the site was a greenfield location used for agriculture. The current facility is a purpose-built waste transfer station. Planning permission was granted in July 2000 and the facility has been in operation since January 2001.

### 2.2. Site Activities

The scheduled activities licensed at the site under the waste management acts are outlined below:

#### Licensed Waste Disposal Activities in accordance with the Third Schedule of the Waste Management Act, 1996.

**Class 11: Blending or mixture prior to submission to any activity referred to in a preceding paragraph of this Schedule.**

This activity is limited to the mixing of non-recyclable waste prior to loading into ejection trailers for transfer to landfill.

**Class 12: Repackaging prior to submission to any activity referred to in a preceding paragraph of this Schedule.**

This activity is limited to the loading of waste into containers prior to transfer to an appropriate facility.

**Class 13:** 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.

This activity is limited to the storage of waste prior to transfer to an appropriate facility.

**Licensed Waste Disposal Activities in accordance with the Fourth Schedule of the Waste Management Act, 1996.**

**Class 2:** Recycling or reclamation of organic substances which are not used as solvents (including composting and other biological transformation processes).

This activity is limited to the recovery of plastics, timber, cardboard, glass and paper prior to transfer to an appropriate facility.

**Class 3:** Recycling or reclamation of metals and metal compounds.

This activity is limited to the recovery of construction and demolition waste.

**Class 4:** Recycling or reclamation of other inorganic materials:

This activity is limited to the recovery of construction and demolition waste.

**Class 13:** 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.

This activity is limited to the temporary storage of baled cardboard, timber, plastics, glass, paper and metal prior to transfer to recycling facilities.

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### 2.3. Waste Types and Quantities

The waste accepted at the site is non-hazardous, commercial, industrial, household and some construction and demolition waste. The site does not accept liquid or hazardous waste. The approximate breakdown of waste composition is given below:

### 2.4. Site Operations

Waste is accepted at the site from IPODEC's own vehicles and from approved waste collection contractors. There is no public access to the site. All waste that arrives on site is weighted, checked that the load is covered and documented. Uncovered loads are not accepted at the facility.

The waste is accepted into the materials handling and recycling building (MHRB). The waste is deposited onto the MHRB floor and inspected. Following visual inspection, the load is processed for recovery or disposal. Any unacceptable waste discovered in the loads delivered is quarantined in a designated quarantine area within the MHRB. Clean cardboard, timber and metal are manually removed to their designated storage areas. Non-recyclable material is stockpiled in the MHRB prior to bulk loading for removal off site. This mixed waste is moved from the site in 70 m<sup>3</sup> ejection trailers. The waste is loaded onto the ejection trailer with a mechanical shovel. The trailers are covered prior to removal off site for disposal to licensed facilities.

The recyclable waste fractions at the facility are cardboard, paper, glass, metal, timber and plastic. From its storage area, cardboard is loaded onto a conveyor by a mechanical shovel feeding a baler. The bales of cardboard are stored on the hardstanding area prior to transfer to a recycling company. Timber is currently removed from the waste loads manually and placed on the hardstanding area in front of the MHRB. Metal is currently removed from loads and stored in high-sited metal containers prior to removal off site to a metal recycling company. Plastic bales delivered to the site are stored prior to removal to a recycling facility. Paper is stockpiled on site within the MHRB and is collected by truck and bulk transported to a paper recycling facility.

---

### 3. FIRE RISK ASSESSMENT

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For the purpose of this assessment the site has been divided into three separate operational areas. These correspond to the main areas on site, namely;

- Site office accommodation
- Materials Handling and Recovery Building, including baling area
- Yard Area, Skip Storage and Car Park

The assessment report for each area, a brief description of the area, the potential fire hazards are identified, an assessment of the current fire control measures is provided and an assessment of the fire risk is presented.

#### 3.1. Site Offices

The site offices are located on the side of the main building. They comprise of a weighbridge office; several administration offices; canteen; toilets and storage areas. The offices are occupied by an average of 6 – 8 people. Smoking is not permitted on site.

##### Hazard Identification

Fire hazards within offices are mainly from electrical faults such as wiring faults, overloading of sockets and equipment overheating. The potential fuel material in the offices is paper and office fixtures and fittings.

##### Fire Control Measures

There is no access to the site or the offices by the general public. Smoking is banned from the entire site. Each office is fitted with a smoke detector and manually activated alarms are located in the corridors. The smoke detectors and alarms are connected to a centrally monitored alarm system.

There are fire extinguishers located in key areas on the ground and first floor hallways. A carbon dioxide extinguisher and foam extinguisher are located at each area. The fire extinguishers have been checked on 3/12/03. All staff are trained in their operation. A first aid box is maintained in the site offices.

## **Fire Risk Assessment**

The likelihood of a fire occurring in these areas is low based on the nature of the activities conducted. Should a fire occur, it would most likely be controlled quickly and quenched using the fire extinguishers located within the building. The alarm would be manually activated and evacuation procedures implemented as necessary. The details presented on the site notice board adequately address fire response measures.

### **Summary**

The likelihood of a fire occurring in these areas is low and buildings are adequately manned with personnel and fire extinguishers. No additional measures are required.

## **3.2. Materials Handling and Recycling Building**

### **Hazard Identification**

Fire hazards in this area are associated with the nature of the waste handled. The principle waste types in this area are cardboard, paper and mixed municipal waste. There are other waste types such as timber, plastic, glass and construction and demolition waste (rubble) that will be stored in proposed bays to the rear of the site.

The municipal solid waste is by its nature of mixed materials. Fire risk arises as a result of the presence of potentially flammable materials and the potential presence of such ignition sources as hot vehicle exhausts, electrical equipment and loads that may contain smouldering materials.

The average amount of material on site at any one time is 150 – 200 tonnes. Of this approximately 50 tonnes is baled cardboard. The baled cardboard is stored outdoors awaiting collection. These bales are considered a low risk fuel as they are difficult to ignite due to the compaction levels associated with the bales. In addition to a potential fire within the waste material, an electrical or mechanical fault in the conveyors, baling equipment or within the vehicles used in the area may give rise to a fire.

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## Summary

Although the material stored on site can be considered flammable, e.g. loose MSW, paper and cardboard prior to baling, the fire risk is low. This is due to the absence of significant ignition sources and the controls in place to prevent, detect and extinguish fire.

### 3.3. Open Yard

#### Hazard Identification

The baled cardboard, wood, plastic, glass, rubble and metal are/ will be stored in the open yard. The baled cardboard is stored on the hardstand area in front of the MHRB. Sources of fuel include plastic, timber and cardboard. The most likely potential ignition source in the open yard would be through arson. There has been past incidences of unauthorised access to the site, however there have been no arson attempts during these break-ins. The cardboard is baled, ready for collection and is stored on the hardstand area in front of the MHRB. The wood, plastic, glass and rubble will be stored in dedicated open are storage bays which are to be constructed to the rear of the facility.

#### Fire Control

There are no extinguishers stored in the front yard. The extinguishers from the MHRB are easily accessible, stored near the entrance. These will be used to fight fires in the front yard. There is adequate access for the fire hose and hydrant for fire fighting. The proposed storage bays to the rear of the site are some distance from existing fire control points. A fire fighting station with the appropriate extinguishers will be provided within a suitable distance of these storage areas. An additional fire hydrant will be provided opposite the proposed Storage bays in the new extension.

There is no public access to the site, with the entire site surrounded by 2.0 m palisade fencing. The access to the site is controlled via one entrance during operating hours. The site is monitored via closed circuit television cameras.

#### Fire Risk Assessment

Should a fire occur in the open yard, it would most likely be detected as the yard is patrolled by a number of staff as part of their duties. Vehicle drivers using the site also have a view of the yard and could alert staff to any fires.

## Summary

A fire is only likely to occur in the yard area as a result of an arson attempt. A review of site security to ensure adequate detection of intruders is recommended.

---

## 4. FIREWATER RETENTION

---

### 4.1. Requirement for Fire Water Retention

The overall risk of fire at the site is considered to be low. However, in the event of a fire, it is likely to be contained within the area that it starts due to:

- Fire warning systems in place giving early detection of fire
- Fire control measures and on-site equipment for early intervention
- Fire separation of building areas.

Firewater used on the fire may become contaminated. Paper and cardboard do not pose a contamination risk. Fires involving MSW may be contaminated by leachate from the waste. Water used on fires on timber stockpiles may become contaminated by wood preservative. Fighting foam is unlikely to be used. However, this foam, if used, should not be released into the environment as it contains ecologically damaging organohalogenes.

Considering the above, there is a potential for the generation of contaminated fire water. The volume of the fire water is calculated using the procedures in the EPA's Draft Guidance Note to Industry on the Requirements for Fire Water Retention Facilities. In summary the calculation involves;

- The calculation of the total volume of water likely to be used to fight a fire
- Calculate rainfall contribution
- Calculate the total required volume for contaminated firewater

A fire in the Materials Handling and Recycling Building has been taken as the worst case scenario, with the potential to create the greatest volume of contaminated fire water. Fires in other areas, such as a skip in the storage yard would also have the potential to generate contaminated fire water, but at lesser volumes than in the MHRB.

### 4.2. Calculation of total volume of water likely to be used to fight a fire

In the event of a fire in the recycling area, the volume of firewater generated is estimated as follows:

- The fire only occurs within the MHRB. The fire is contained within this area and the other areas of the site are not affected by the fire.
- The duration of the fire is 60 minutes.
- Assume both on-site hydrants are working for a full 60 minutes fire duration at a rate of 1,500 l/minute
- Assume fire services control the fire in 60 minutes, with two tenders having capacity to deliver 1,818 litres of water.



Fire hydrants:

Total delivery of water from hydrants	=	1,500 litres per minute	
Fire duration	=	60 minutes	
Total hydrant water volume	=	90,000 litres	
Convert to m <sup>3</sup>	=	90 m <sup>3</sup>	(A)
Water volume in each WCC tender	=	1,818 litres each	
1,818 X 2	=	3,636 litres	
Convert to m <sup>3</sup>	=	3.636 m <sup>3</sup>	(B)
<hr/>			
Net fire water volume (A) + (B)	=	93.6 m <sup>3</sup>	(C)

#### 4.3. Calculation of Rainfall Contribution

MHRB Floor area, including baling area and proposed extension (Assume roof destroyed)

= 1350 m<sup>2</sup>

Maximum 24-hour rainfall

= 0.0974 m (Met Éireann)

0.0947 X MHRB area

= 132 m<sup>3</sup>

Other Areas discharging to sewer

= 525 m<sup>3</sup> (hardstand area)

= 38 m<sup>3</sup> (truck wash)

= 563 m<sup>3</sup> (sum)

0.0947 X other areas discharging to sewer

= 55 m<sup>3</sup>

Rainfall Allowance

= 187 m<sup>3</sup>

#### 4.4. Calculation of the Total Retention Volume Required

Fire water volume

= 93.6 m<sup>3</sup>

Rainfall allowance

= 187 m<sup>3</sup>

Total retention volume required:

= 280.60 m<sup>3</sup>

Total current retention available on site  
(c.f. RPS Report)

= 568 m<sup>3</sup>

---

## 5. CONCLUSIONS AND RECOMMENDATIONS

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### 5.1. Conclusion

The risk of fire occurring is low in the facility, with the highest risk area being the Materials Handling and Recycling Area. The fire control facilities provided on site are deemed to be sufficient.

If a fire occurred the potential for contaminated fire water to be generated exists. A fire water retention facility is required to retain the fire water generated from a fire in the Materials Handling and Recycling area. The calculated maximum volume of fire water, including for rainfall allowance, from a fire in the MHRB is 280.60 m<sup>3</sup>.

A preliminary fire water risk assessment carried out for the site by RPS recommended the use of the site drainage network and the hardstand areas as a fire water retention arrangement. The shut off valves in the foul sewer and surface water drainage network would be used to contain water in these systems. The hardstand area of the site in conjunction with the kerbing surrounding the site would provide additional storage. A boom or temporary kerbing would have to be placed across the site entrance to retain the water. This arrangement would provide 568 m<sup>3</sup> of firewater storage on the site, which is adequate to contain the estimated 280.60 m<sup>3</sup> of firewater which would be generated by a worst case fire on the site. This excludes the additional storage which could be provided by the new proposed storage bunkers to be built to the rear of the site. Thus adequate storage for potential fire waters can be provided within the existing infrastructure of the site.

### 5.2. Recommendations

Based on the findings of this risk assessment, FTC recommend the following:

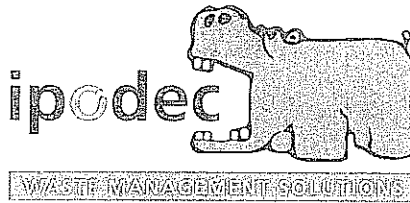
#### General / Fire Prevention

- All staff should receive training on fire prevention and early actions in the case of a fire on site
- All staff should receive training on the use of fire hoses and hydrants
- A review of site security to reduce the potential for arson by preventing access of intruders and a reduction of potential fuel sources located in yard areas. The key to preventing arson is to prevent access to potential fuels. This security review should include a review of fencing, walls and gates, review of adequacy of doors and windows, letter boxes should be fire proofed, stored material should not be stacked adjacent to boundaries where it can be easily set alight from outside
- Place a set of extinguishers at the proposed storage areas to the rear of the site in that a fire outbreak can be immediately controlled

### Firewater retention

- The recommendations of the RPS report to provide 568 m<sup>3</sup> of on-site firewater retention should be implemented. This will provide adequate storage on site.
- The emergency response procedures should include the necessary actions to contain potentially contaminated firewater.

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# ENVIRONMENTAL LIABILITY RISK ASSESSMENT

FOR

**WASTE TRANSFER FACILITY,  
SIX CROSS ROADS, WATERFORD**

Copy

**EPA REF. NO. 177-1**

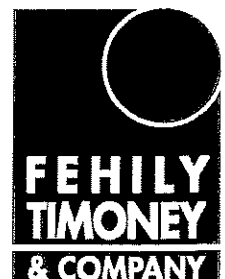
**Prepared for:**

Ipodec Ireland Ltd.  
Six Cross Roads Business Park  
Waterford

**Prepared by:**

Fehily Timoney & Company  
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Pouladuff Road  
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July 2004



# ENVIRONMENTAL LIABILITY RISK ASSESSMENT

FOR

## WASTE TRANSFER FACILITY, SIX CROSS ROADS, WATERFORD

**User is Responsible for Checking The Revision Status Of This Document**

Rev. Nr.	Description of Changes	Prepared by:	Checked by:	Approved by:	Date:
0	Issued to Client	DF	DE	DE	12/07/04

Client: Ipodec Ireland Ltd.

Keywords: Environmental Liability, Risk Assessment, Ipodec, Waste Transfer Station,

Abstract: An environmental liability risk assessment prepared as part of the requirements of the site waste licence. The report examines the facility and identifies the potential environmental risks and the likelihood of their occurrence. A cost is estimated for the site environmental liability.

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## 1. INTRODUCTION

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### 1.1. Background to the Assessment

In part fulfilment of the requirements of waste licence Reg. No. 177-1<sup>1</sup>, Ipodec Ireland Ltd retained Fehily Timoney & Co. (FTC) to prepare an environmental liability risk assessment (ELRA) for the waste transfer facility at Six Cross Roads, Waterford.

Condition 11.2.1 of Licence 177-1, states;

*"Within six months of the date of grant of this licence the licensee shall arrange for a risk assessment of the facility to be carried out. The risk assessment shall have particular regard to any accidents, emergencies, or other incidents, which might occur at the facility and their effect on the environment, on the neighbours of the facility and on adjoining land-uses. The risk assessment shall include a comprehensive and fully costed Environmental Liabilities Risk Assessment for the facility including the cost of making adequate Financial Provision. The financial provision shall include the costs entered into or incurred in the carrying on of the activities to which this licence relates including and the decommissioning and closure of the facility."*

This report qualifies and quantifies any environmental liabilities associated with operations at the facility.

### 1.2. Environmental Liabilities Risk Assessment

Environmental liabilities are defined as the cost of environmental remediation due to activities or events occurring on the site. This environmental liabilities risk assessment covers the current environmental liabilities associated with the activities on the site. The risk assessment also considers the implications of the proposed installation of separated storage bays at the facility.

### 1.3. Scope of the Assessment

This assessment examined environmental aspects of the facility operation. This includes waste handling operations such as waste acceptance, waste inspection and storage of recyclable and non-recyclable materials on site. The assessment also examined;

- Any historical environmental liabilities related to the site
- The identification of potential emissions from the operating activities at the site; and the impact of same on the receiving environment
- Potential environmental liabilities arising from ceasing to carry out these activities
- Financial provisions required for the site.



---

## 2. DESCRIPTION OF THE SITE AND SITE OPERATIONS

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The information summarised below has been provided to the Environmental Protection Agency in more detail in both the Environmental Impact Statement and Waste Licence Application for the site.

### 2.1. Site Description

The site is located in the Six Cross Roads Business Park, Carrignard, and Waterford and covers an area of approximately 0.6 of a hectare. The materials handling facility and offices cover approximately 1,045 m<sup>2</sup> of the site with the remainder of the site used for skip storage, truck movement and parking, storage of recovered cardboard, plastic, paper, metal, glass, rubble, timber and for car parking. A view of the site from the entrance is shown on Plate 1 overleaf. In addition bunded fuel storage facilities, a truck wash bay and a weighbridge are located on the premises. The entire site is enclosed by palisade fencing. The surrounding land is occupied by industrial premises and farm land. A proposed biological waste facility is under-construction in the adjacent plot to the facility.

Prior to the construction of the IPODEC facility the site was a greenfield location used for agriculture. The current facility is a purpose build waste transfer station. Planning permission was granted in July 2000 and the facility has been in operation since January 2001.

### 2.2. Site Operations

The scheduled activities licensed at the site under the waste management acts are outlined below;

#### Licensed Waste Disposal Activities, in accordance with the Third Schedule of the Waste Management Act 1996

- Class 11**      **Blending or mixture prior to submission to any activity referred to in a preceding paragraph of this Schedule.**  
This activity is limited to the mixing of non-recyclable waste prior to loading into ejection trailers for transfer to landfill.
- Class 12**      **Repackaging prior to submission to any activity referred to in a preceding paragraph of this Schedule.**  
This activity is limited to the loading of waste into containers prior to transfer to an appropriate facility.
- Class 13**      **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.**

This activity is limited to the storage of waste prior to transfer to an appropriate facility.

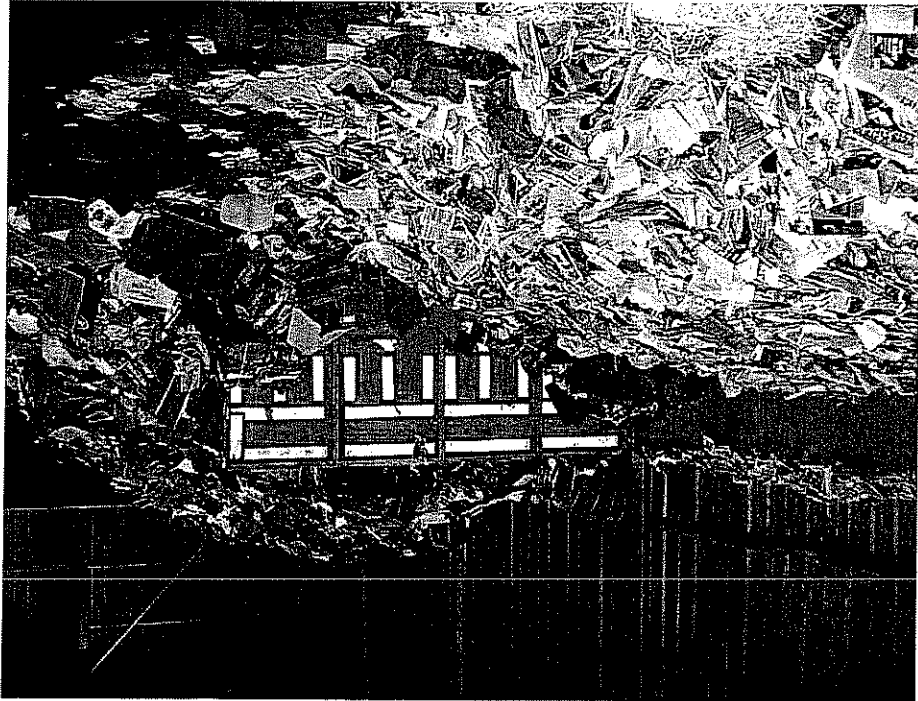


PLATE 2 - Paper and Cardboard Receiving Area

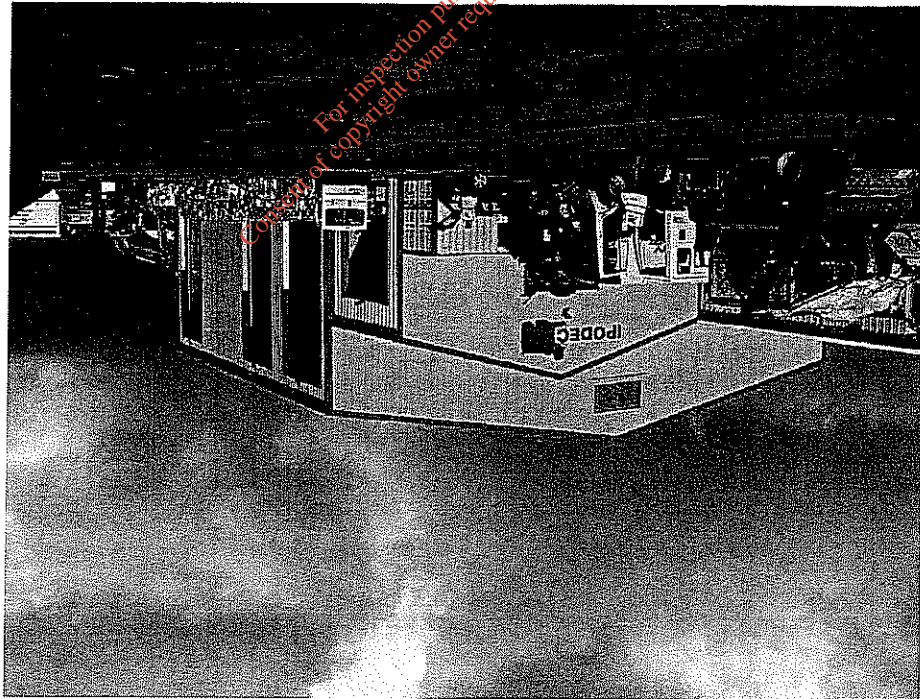


PLATE 1 - View of Facility from Site Entrance

**Licensed Waste Recovery Activities, in accordance with the Fourth Schedule of the Waste Management Act 1996**

- Class 2**      **Recycling or reclamation of organic substances which are not used as solvents (including composting and other biological transformation processes):**  
This activity is limited to the recovery of plastics, timber, cardboard, glass and paper prior to transfer to an appropriate facility.
- Class 3**      **Recycling or reclamation of metals and metal compounds:**  
This activity is limited to the recovery of metal prior to transfer to recycling facilities.
- Class 4**      **Recycling or reclamation of other inorganic materials:**  
This activity is limited to the recovery of construction and demolition waste.
- Class 13**     **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:**
- This activity is limited to the temporary storage of baled cardboard, timber, plastics, glass, paper and metal prior to transfer to recycling facilities.

### **2.3. Site Geology and Hydrogeology**

The information on the site geology and the hydrogeology is based on the information contained in the environmental impact statement prepared for the site and waste licence application. The site is located south of Waterford City and the River Suir, and is approximately six metres above sea level. The bedrock geology is associated with Ordovician rocks of the lower Palaeozoic period. The entire bedrock geology of the site consists of the Ross Member of the Campile Formation. The Ross Member contains a grey, green and black shale with minor tuffs. The area is locally faulted with igneous Dolerite rock to the southeast. The Lower Palaeozoic rocks have undergone faulting and low-grade metamorphism. Strong folding has resulted in the development of joint systems, which has increased the permeability of these units. The overburden geology consists of sandy or silty gravely clay, with silt and peat deposits in places. The bedrock beneath the site has been classified as a regionally important fissured aquifer.

---

## 3. ENVIRONMENTAL CONTROLS ON SITE

---

### 3.1. Site Facilities

The site is surrounded by 2.5 metre high palisade fencing. Access to the site is via the front entrance which opens onto the internal business park road. Control of access to the site during hours of operation is maintained by the Operations Manager. The front gates are locked outside the hours of operation. The site is further secured by a closed-circuit television system. The office buildings are secured by an intruder alarm system.

The facilities on site include the recycling building and offices. The remainder of the site is used to conduct waste transfer operations, skip storage and associated activities. Electricity is used on site in the office area, canteen, baling area and lighting of the facility. All wastewater (i.e. domestic, truck wash and run-off from waste areas) discharges to the local authority sewer line. The surface water runoff is directed to a stream to the rear of the facility.

### 3.2. Environmental Controls

#### 3.2.1. Surface and Groundwater

A number of measures are in place to control emissions to surface and groundwater. These include the following:

- All waste handling and recycling activities are conducted on hardstanding areas.
- The site is not licensed for liquid waste. No liquid waste is handled, stored on-site or transferred through the facility. Fuels and oils on site are stored in bunded areas.
- All domestic wastewater from the canteens and toilets pass to the local authority sewer.
- The truck wash effluent passes through a sediment and oil trap prior to discharge to the local authority storm water network.
- Weekly inspections of the interceptors, grit traps, gullies and drains take place and these are de-sludged as necessary.

#### 3.2.2. Leachate

The potential for leachate generation is reduced by the following control measures:

- The hardstanding area of the site is swept as necessary. The MHRB is covered.
- No waste is allowed to accumulate outside the transfer area.

- All leachate and run-off from the waste loading area is collected and diverted to a the site foul sewer system. This is passed through a silt trap and oil water interceptor prior to discharge to the local authority sewer.
- The majority of waste accepted at the facility is dry and hence the liquid content of the waste is low.

### 3.2.3. Dust

The potential for dust generation is low due to the nature of the waste transferred through the facility which is mainly of an industrial/commercial origin. It comprises the following components which are recycled:

- Cardboard
- Paper
- Plastic
- Metal
- Glass
- Timber

### 3.2.4. Odour

There is efficient handling of the waste brought on-site, so that, fast turnaround times are achieved in processing waste to sealed containers prior to removal off-site. Due to the hours of operation at the landfill, it may not possible to clear the floor of the transfer area at the end of every day. However, no non-recyclable waste remains on-site for more than 56 hours. Every evening a transfer trailer is loaded with this waste and covered. This transfer trailer on occasions will remain on-site overnight prior to dispatch, to the landfill site, the following morning, with the exception of Sundays.

All empty skips are covered and general housekeeping measures implemented to ensure the potential for odour to occur is reduced further. The site has a K-Fog active odour control system installed.

One complaint was received relating to odour; however on investigation it was found that the odour was not a problem and that the complaint has arisen as a result of a mis-communication between the complainant and his employees at a neighbouring work site. There have been no further complaints relating to the site.

### 3.2.5. Litter Control

Litter is controlled by the following:

- Any loose material lying inside the site is gathered and disposed of regularly to keep the site tidy.
- Waste handling areas and the loading operations for mixed waste are carried out indoors. This limits the access of scavenging birds and eliminates windblown litter.
- This waste is generally landfilled every day so that waste is not stored on site over an extended time period.

### 3.2.6. Noise

Noise emissions are reduced by the following control measures:

- Waste handling operations are conducted within dedicated buildings to reduce noise levels emanating from the grab machine operating at the site.
- All trucks and plant are regularly serviced. Trucks are not permitted to sound horns or rev engines unnecessarily while on-site.
- Site roads are maintained to reduce noise from vehicle movements.

The results of noise monitoring at the site indicate that the site noise levels are within the levels set by the site waste licence.

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## 4. RISK ASSESSMENT METHODOLOGY

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### 4.1. Methodology

In the absence of specific Irish guidelines on environmental liability risk assessments; FTC have referred to the guidelines produced by the Department of Environment, Food and Rural Affairs (DEFRA) on Environmental Risk Assessment and Management<sup>ii</sup>. In assessing the environmental risk associated with the operation of the waste transfer site normal and abnormal operating conditions were considered. The environmental liability risk assessment has five stages, given below.

1. The risk identification.
2. Identification of the consequence of the risk occurring.
3. Estimation of the magnitude of the consequences of the risk occurring.
4. Estimation of the probability of the risk occurring.
5. An evaluation of the significance of the risk.

These stages fall into two broad activities; the risk identification (Stage 1) and the risk assessment (Stages 2 – 5). For the purposes of this assessment an environmental risk is defined as a property or situation that in particular circumstances could lead to harm to the environment.

### 4.2. Risk Identification

The risk identification has been carried out by means of a site inspection, review of waste licence application and EIS as well as an examination of the site waste licence. The risks have been identified by FTC personnel based on their expertise in environmental science and waste management, their experience of similar facilities, the site waste licence and waste licence application, guidelines produced and the BREF notes for non-landfill waste management facilities.

#### Stage 1 Risk Identification

Identification of the aspect of operation at the site that could potentially have an impact on the environment or public.

### 4.3. Risk Assessment

During the risk assessment the risks identified in Stage 1 are considered. The consequence of the risk occurring, an estimate of the magnitude of the consequences of the risk occurring, an estimation of the probability of the risk occurring and an evaluation of the significance of the risk are all established during this activity.

#### Stage 2 Impact

A description of the environmental impact associated with the aspect.

**Stage 3 Hazard Rating**

This assesses the magnitude of the hazard. Depending upon the size of the source, three hazard classes are identified. These are shown in Table 4.1 – Risk Scoring Sheet.

**Stage 4 Probability**

Four classes of probability are identified. These are described in Table 4.1 – Risk Scoring Sheet.

**Stage 5 Severity of Consequences**

This takes into account the extent, duration and seriousness of the effects on the environment. Five classes of severity are listed in Table 4.1 – Risk Scoring Sheet.

**Stage 6 Risk**

The risk is calculated:

$$\text{Risk} = \text{Hazard Rating} \times \text{Probability} \times \text{Severity}$$

If a risk has a rating of 30 or greater then it is considered to be significant.

The risks are scored during each of the stages 3 – 5 according to a set scale. The scale for hazard rating, probability of occurrence and severity of consequences is shown on Table 4.1.

**Table 4.1: Risk Scoring Sheet**

Hazard Rating Class	Score	Description
P0	0.25	Size of the source of the risk is negligible
P1	0.5	Size of source may cause a non-negligible risk
P2	1	Size of source is substantial
Probability Class	Score	Description
V1	0.25	Not likely to occur
V2	0.5	Possibility of occurring some time
V3	0.75	Possibility of isolated incidents
V4	1	Possibility of repeated incidents
Severity of Consequences	Score	Description
S0	10	Negligible consequence on the environment
S1	20	Slight consequence, affecting only the area owned by IPODEC; local attention to the event
S2	40	Contamination affects surrounding areas without permanent consequences; local interest
S3	60	Contamination affects surrounding areas with known toxic effect; attention from media and regional authorities
S4	80	Serious long-term environmental damage, remediation mandatory, national attention, possible closure
S5	100	Serious large scale environmental damage with international attention, involvement of authorities



## Information used in this Assessment

The data used in the compilation of this report included:

- Waste Licence Application, submitted to the Environmental Protection Agency (EPA).
- Environmental Impact Statement submitted to the Environmental Protection Agency.
- Waste licence issued for the facility (Reg. No.177-1).

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## 5. RISK IDENTIFICATION

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To fully assess the risk associated with activities at the site, FTC reviewed the risks under normal and abnormal operating conditions.

### 5.1. Environmental Risk during Normal Operating Conditions

Emissions to the environment during normal operating conditions are considered below.

#### 5.1.1. Emissions to Air

Potential atmospheric emissions that may occur during the transferring operations at the facility include airborne particulates and odour. The potential sources of dust emissions are from the site roads and to a much lesser extent from the tipping area and the on-site generator.

Dust is monitored at three locations around the facility three times annually. Historical monitoring conducted at the site since the grant of the licence indicates that the dust deposition concentrations were within the limits set by the site's waste licence.

Odorous emissions are largely confined to the transfer area where general refuse is handled and to a lesser extent near the truck wash area. There was no odour from the facility detectable on the off site areas on the day of the FTC inspection. In addition, the odour control system installed at the facility is sufficient in reducing odours.

Good site practices and the use of water bowsers ensure that dust and odour levels are kept to a minimum. Skips and trucks are regularly washed and covered when not in use further reducing the potential for dust and odour.

#### 5.1.2. Emissions to Surface Water

Surface water samples are collected for analysis each quarter and are visually inspected each week. The surface water is monitored at SW1 and SW2. The analysis carried out on the surface water discharges have indicated that all samples are within the limits set by the waste licence. The surface water grit interceptor and oil interceptor are serviced on a regular basis. The surface water system is fitted with an emergency shutoff valve. The surface water collection system discharges to a small stream/ dyke to the west of the site.

#### 5.1.3. Emissions to Groundwater

The results of the groundwater quality assessments indicate the groundwater underlying the IPODEC site to be of satisfactory quality.

#### 5.1.4. Noise Emissions

During normal operation, the main noise sources are from the lorries delivering to and collecting from the site, a loading shovel, a forklift and the cardboard baler. The facility is located in a predominantly commercial/industrial area with no residential sites in the immediate vicinity. The results of noise monitoring conducted demonstrate that noise levels measured at all locations are within the daytime limits imposed by the site waste licence.

#### 5.1.5. Risk to the Environment during Normal Operating Conditions

It is concluded that when the facility is operating normally and within the parameters set down by the conditions of the waste licence, the facility poses no significant environmental risk.

### **5.2. Environmental Risk during Abnormal/ Emergency Operating Conditions**

Emergency situations, as defined by Condition 8.4 of the licence, include:

- Breakdown in key equipment or closure in the transfer station building
- All significant spillages
- A fire at the facility

#### 5.2.1. Equipment Breakdown or Temporary Site Closure

In the event of the above, the Operations Manager will make arrangements in conjunction with appropriate contractors to carry out repairs and remedy the situation in the event of plant or equipment problems. If prolonged downtime is anticipated, material will be directed to another IPODEC facility, the closest being at Forge Hill in Cork. Existing recyclable material will be stored on site until the problem is rectified.

Waste already deposited on the floor of the transfer building will not be transferred until the grab machine has been repaired or replaced. This will take no longer than 24 hours maximum; hence, the waste will be transferred out of the facility on the next working day.

The above emergencies are covered in the site Emergency Response Procedures.

#### 5.2.2. Significant Spillages on Site

The facility is not licensed to accept liquid waste, consequently the likelihood of a significant spill occurring is low. All waste is inspected upon entry to the site and procedures are in place for dealing with unacceptable waste.

Fuel, oil and odour masking essence are stored within bunded areas. The integrity of the bunds was verified on the 22<sup>nd</sup> February 2002.

In the event of a spillage occurring, the shut-off valves for the surface water drainage system will be blocked until such time as the all-clear is given by the Operations Manager or Environmental Officer. The spill will be isolated and contained with absorbent socks, booms or sandbags and every effort made to prevent the spill from entering a storm or foul drain, or the adjacent stream.

The Operations Manager, Environmental Officer and anyone involved in the spill will review the activities leading to the spill, so that procedures can be put in place to avoid reoccurrence. Any recommendations are included in the Incident Report Form.

The above emergency is covered in the site Emergency Response Procedures.

### 5.2.3. Fire

A fire risk assessment was carried out at the facility in March 2004. This identified the on site capability for fire-fighting and firewater retention. The fire risk assessment included the assessment and calculation of the firewater retention requirements on site. It was concluded that adequate firewater retention can be made available on the site through the use of the capacity within the existing drainage facilities and by enclosing hard sanding areas of the site in the event of fire water being generated.

### 5.2.4. Decommissioning

The purpose of decommissioning is to return the site to a condition suitable for the selected after use of the facility. The decommissioned facility will have to be in a condition which will not cause or be likely to cause environmental pollution. This will involve being freed from contamination from waste and free from continuing emissions requiring management.

### 5.2.5. Risk to the Environment during Abnormal/ Emergency Conditions

The sources of potential environmental risk during abnormal or emergency conditions are identified as

1. Equipment breakdown
2. Leachate production from putrescible waste storage
3. Odour from putrescible waste storage, blocked drains, skips
4. Construction on site
5. Spill in diesel storage
6. Fire in the recycling area
7. Facility Closure

These potential risk events are assessed in the risk assessment in Section 6.

## 6. RISK ASSESSMENT

Table 6.1: Results of Environmental Liability Risk Assessment

No	Aspect	Impact	Hazard Rating PO(0.25) – P2(1)	Probability PO(0.25) – P2(1)	Severity of Consequences S0(10) – S5(100)	Risk Rating A x B x C	Total Cost of Risk Event Occurring (€)
			A	B	C	D	E
1	Normal Operation Conditions	None	-	-	-	-	0
2	Facility Closure	Waste stockpile	0.25	0.25	10	0.6	84,000
3	Release of leachate production from putrescible waste storage	Contamination of groundwater	0.25	0.25	20	1.2	10,000
		Contamination of surface water	0.25	0.25	20	1.2	10,000
4	Odour from putrescible waste storage, odour from blocked drains, odour from skips	Air quality	0.5	0.5	40	10	1,000
5	Construction works associated with planned facility upgrade works	Contamination of groundwater	1	0.25	40	10	10,000
		Contamination of surface water	1	0.25	40	10	10,000
		Noise	1	0.25	40	10	5,000
		Dust	1	0.25	20	5	5,000

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No	Aspect	Impact	Hazard Rating PO(0.25) – P2(1)	Probability PO(0.25) – P2(1)	Severity of Consequences S0(10) – S5(100)	Risk Rating A x B x C	Total Cost of Risk Event Occurring (€)
6	Spill in diesel storage area	Contamination of groundwater	1	0.5	50	25	10,000
		Contamination of surface water	1	0.5	50	25	10,000
7	Fire in the recycling area	Contamination of groundwater	1	0.75	50	37.5	30,000
		Contamination of surface water	1	0.75	50	37.5	10,000
		Air quality	1	0.5	50	25	1,000
8	Fire in yard area	Contamination of groundwater	1	0.75	50	37.5	30,000
		Contamination of surface water		0.75	50	37.5	10,000
		Air quality	1	0.5	50	25	10,000

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Summary		
Facility Closure / Waste stockpile disposal		€ 84,000
Groundwater contamination		€ 30,000
Surface water contamination		€ 10,000
Air quality		€ 1,000
Noise		€ 5,000
<b>Total</b>		<b>€ 130,000</b>

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## 7. ENVIRONMENTAL LIABILITIES RISK ASSESSMENT – SUMMARY

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It is the policy of the licence holder to conduct all activities on site in such a manner that operations on the site will not have any short-term or long-term consequences on the environment or the public. All work and operations conducted at the site will be conducted in accordance with the waste licence and standard operating procedures.

During normal operations, the environmental liabilities risk assessment has shown that there will be no risk to the environment. However, during abnormal operations, for example emergencies, there will be a level of environmental risk. The implementation of the site emergency response procedures will ensure that even during abnormal operations or emergencies, the environmental risk is controlled. Upon closure of the site, all plant, fuel, buildings etc. will be removed. Subsequently, the potential for the generation of contamination of soil, water or air will be removed.

### 7.1. Financial Provision

The environmental risk assessment and associated costs is given in Table 6.1. The cost of clean-up of the maximum amount of waste and recyclable material that may be stored on site at any one time is estimated at € 84,000. It is assumed that at any one time, there could be 100 tonnes of waste and recyclable material stored indoors and 250 tonnes of recyclable material stored in the open yard. For the purpose of the assessment of a worse case scenario, it is assumed that all the waste and recyclable material will need to be disposed of to landfill. The removal/transport and disposal cost of 350 tonnes of waste (approximately two weeks waste) at approximately € 240/tonne (based on current landfilling gate fees) is estimated at approximately € 84,000.

The risk assessment results show that an environmental liability of € 130,000 will cover the worst case abnormal operations at the current facility.

A suitable financial provision for the site would be € 130,000. This can be in the form of bond, financial allocation or an insurance premium or another form agreed with the Agency, which will guarantee the availability of funds for potential liabilities arising from:

- emergency situations occurring during operation of the site
- closure and decommissioning of the site



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## 8. REFERENCES

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<sup>i</sup> EPA Site Waste Licence No. 177-1 Issued to IPODEC Ireland Limited, 14<sup>th</sup> November 2003.

<sup>ii</sup> DEFRA, "*Guidelines for Environmental Risk Assessment and Management*", Department of Environment, Food and Rural Affairs, (1995, Updated 1997).

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# Emergency Response Procedures

for

A Waste Transfer Station



Operated by

ONYX Ireland Ltd.  
Six Cross Roads Business Park  
Waterford City



**1.0 INTRODUCTION**

ONYX Ireland Ltd., operate a Waste Transfer and Recycling Facility at Six Cross Roads Business Park Waterford. On December 14th December 2003 the company received a Waste Licence (No. 177-1) from the E.P.A. to operate this facility.

This document has been compiled in compliance with this Licence. There exist a number of potential emergencies, which can be grouped under the following headings:

- Unable to load waste to transfer trailers
- Unable to transfer waste to Landfill / Baling Station
- Threats to worker health and safety
- Threats to the environment
- Emergency Situations outside normal working hours

Each of these headings is discussed with an outline of the recommended response procedures. There is overlap between these headings, for example a fire will impact on all of the above headings. Appendix A lists all the emergency response contact names, association and phone numbers. The Safety Statement for the company should be referenced for emergency procedures to be observed in the event of a fire.

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## 2.0 DISTRIBUTION AND REVISION

This ERP is distributed to those people listed below and is available for reference from the Environmental Officer. Amendments to this document can only be made with the approval of the Group Technology Development/Environmental Manger and the written agreement of the Environmental Protection Agency. All amendments to the document are recorded and stored in the Environmental Officers Office.

Name	Position
Environmental Protection Agency	
Kieran Mullins	Group Environmental Manager/ Technology Development Manager
Hugues – Gerald Barthelemy	Southern Regional Manager
Michael Keating	Area Manager
Tom Walsh	Operations Supervisor
Michael Storan	Environmental Officer

All personnel listed above are advised of any revisions made in the status of the procedures, and trained where relevant. Furthermore, any new personnel whose position is relevant to the implementation of these procedures will be trained accordingly. Records of any training are maintained in the Environmental Officers office.

### 3.0 UNABLE TO TRANSFER WASTE TO TRANSFER TRAILERS

The reasons for which the facility might not be able to transfer waste to the transfer trailers include the following:

- Plant /equipment failure (breakdown of Loader)
- Fire

The response procedures detailed below relate to mechanical. The response in the case of a fire is provided in Section 5.1.

#### 3.1 Identify the Problem.

In the event of an operational failure / malfunction:

- 1) The Environmental Officer /Operations Supervisor will inform the Area Manager as soon as possible.
- 2) The Area Manager, availing of the appropriate advice where required, shall determine the nature of the problem.
- 3) The Area Manager will make arrangements, in conjunction with the sub-contractor, with appropriate contractors/ personnel to carry out repairs and remedy the situation in the event of Plant/ equipment repair.

#### 3.2 Determine Staffing Resources.

The Area Manager will:-

- 1) Determine whether there are sufficient resources/ personnel on-site to remedy the situation or whether specialist contractors are required.
- 2) In the event of plant/ equipment failure, determine with the sub-contractor whether the problem can be solved by in-house personnel

#### 3.3 Assess Down-time

The Area Manager will make an assessment of the down-time in consultation with the on-site personnel, sub-contractor and / or specialist contractors.

### 3.4 Notification of Waste Diversion

If a prolonged downtime is anticipated, the Area Manager will notify the following that waste is to be diverted or of the intention to divert waste directly to landfill or other licensed waste transfer facilities,:

- Group Environmental Manager (ONYX Ireland Ltd.)
- All ONYX drivers transporting waste to the facility
- All other waste carriers transporting waste to the facility
- The Environmental Officer
- The Operations Supervisor

It is the responsibility of the Environmental Officer to notify the Environmental Protection Agency.

In the unlikely event that it is not possible to divert the waste ONYX Ireland Ltd. will make arrangements to cease waste collection. In such cases all clients of the company and other waste carriers will be informed.

### 3.5 Waste Handling

The Waste Licence will be affected by an emergency resulting in the facility being unable to transfer waste to the transfer trailers. Waste already deposited on the floor of the transfer building will not be transferred until the Loader has been repaired or replaced. In any event this will take no longer than 24 hours maximum, hence, the waste will be transferred out of the facility on the next working day. Any odour nuisance that is likely to arise as a result of this overnight storage will be negated by the odour control system in place.

### 3.6 Recommencement of Transferring Activities

Once transfer operations have recommenced, the Area Manager will notify the following:

- The Group Technology Development and Environmental Manager (ONYX Ireland Ltd.)
- All ONYX drivers transporting waste to the facility
- All other waste carriers transporting waste to the facility
- The Environmental Officer
- The Operations Supervisor
- Clients (if appropriate)

The transfer facility will recommence waste acceptance and transfer activities. The Environmental Officer will notify the Environmental Protection Agency.

**3.7 Review**

The Area Manager will review the cause of the emergency and will instigate measures, where possible, to prevent a reoccurrence of the breakdown.

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#### **4.0 UNABLE TO TRANSPORT WASTE TO LANDFILL OR OTHER FACILITIES LICENCED TO RECEIVE WASTE.**

The waste that is transferred through the Waterford facility has several disposal routes other than recycling. These are the licenced facilities at

KTK Landfill, Kilcullen, Co. Kildare  
ONYX Dublin, Ballymount Cross, Tallaght, Dublin  
Dunmore Landfill, Dunmore, Co.Kilkenny

It is considered highly unlikely that the facility will be unable to accept waste, however consideration is given here to such an event happening. The reasons for which the transport of waste to these facilities may not be possible are as follows:

- Traffic Congestion
- Industrial Dispute
- Adverse Weather Conditions
- Emergency at the aforementioned facilities.

The response procedures to this emergency are similar to those in section Section 3.

#### **4.1 Notification of the Area Manager**

When a situation likely to affect the transport of waste arises, the Area Manager/Operations Supervisor will be notified. As the situation develops off-site it is the responsibility of all employees / sub-contractors involved in the transport of the waste to notify the Area Manager. Once notified he is responsible for implementing the appropriate emergency response procedure.

#### **4.2 Assess Down-Time**

The Area Manager will assess the backlog in consultation with the appropriate personnel. These will include the following:

- The Manager at the relevant facility unable to accept the waste
- The Manager at the relevant facility able to accept the waste
- The Sub-Contractors
- The Environmental Officer and Operations Supervisor

The estimated downtime will dictate the appropriate response. As the above reasons are outside the control of the Area Manager, a conservative approach will be taken and the Area Manager



will prepare for a prolonged downtime. The exception is traffic congestion, which will be treated as a short term solution.

#### 4.3 Notification of Waste Diversion

(a) In the event that the facility cannot accept waste the Area Manager will notify the following:

- Group Environmental Manager (ONYX Ireland Ltd.).
- All ONYX drivers transporting waste to the facility
- All other waste carriers transporting waste to the facility
- The Environmental Officer
- The Operations Supervisor

All contact numbers are provided in Appendix A.

The Area Manager/Operations Supervisor will in turn ensure that all clients are informed that waste cannot be collected until such time as the facilities are able to accept waste.

The Environmental Officer will ensure that as much waste as possible remaining on-site will be stored in the Transfer Station Building to await shipment. The stored waste will be sprayed with an odour neutraliser to minimise odour and fly infestation.

The Environmental Officer will inform the Environmental Protection Agency.

#### 4.4 Waste Handling

There are a number of conditions of the Waste Licence which will be affected by an emergency resulting in the inability to transport waste to the disposal facilities. These are :

The floor of the waste transfer building shall be cleaned and washed down on a weekly basis and on a daily basis where putrescible waste is handled.

All waste for disposal shall be removed from the facility within twenty-four hours of its arrival on-site, forty-eight hours at weekends and seventy-two hours during bank holidays.

In the event of some the emergencies mentioned above occurring it may not be possible to fulfill these conditions. If this situation arises all exposed faces/ surfaces of the waste on the floor of the building will be sprayed with an odour neutraliser.

**4.5 Recommencement of Transfer Activities**

Once transfer operations have recommenced, the Area Manager will notify the following:

- Group Environmental Manager (ONYX Ireland Ltd.)
- All ONYX drivers transporting waste to the facility
- All other waste carriers transporting waste to the facility
- The Environmental Officer
- The Operations Supervisor
- Clients (if appropriate)

The transfer facility will recommence waste acceptance and transfer activities. The Environmental Officer will notify the Environmental Protection Agency if appropriate.

**4.6 Review**

The Area Manager will review the cause of the emergency and will instigate measures, where possible, to prevent a reoccurrence of the breakdown.

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## 5.0 THREATS TO WORKER HEALTH AND SAFETY

Potential threats to worker health and safety include the following:

- Fire
- Exposure to hazardous waste
- Accidents

The site specific safety statement incorporates preventative safety measures and emergency procedures to be followed in the event of the following.

### 5.1 Fire

In the event of a fire, the alarm will be raised to notify all employees and visitors to the site. Once an alarm is raised the following procedures outlined below will be followed.

#### 5.1.1 Evacuation

All employees will switch off machinery and make their way to the fire assembly point. Employees driving forklifts, front-end loaders, and trucks will park their vehicles outside the building away from the fire and clear of all gates and doorways. The site Safety Officer/Operations Supervisor will ensure that all employees, sub-contractors and visitors are accounted for. The receptionist will provide the visitors sign-in logbook for any visitors currently on-site.

#### 5.1.2 Notification

The Environmental Officer will ensure that the fire brigade has been notified. As a fire will result in the inability to process waste the Environmental Officer will follow the procedures outlined in Section 3 with regard to notification and waste diversion.

#### 5.1.3 Fire Control

The shut-off valves to foul sewer and surface water will be closed. All employees will have received basic instruction on the proper use of the on-site fire fighting equipment. This equipment will not be used unless the person is confident of their ability in handling it, and an escape route is available to them. (Maintenance checks on all fire fighting equipment will be made periodically to ensure that it is in good working order: records will be kept of this maintenance).

The Environmental Officer/Operations Supervisor will meet the fire brigade when they arrive on-site and direct them to the fire location. The Environmental Officer/Operations Supervisor will inform the fire brigade of any potential dangers, i.e. materials likely to accelerate the fire such as fuel, etc.

#### 5.1.4 Damage Assessment

Once the fire has been extinguished and the area made safe an assessment of the damage can be made. All necessary contractors will be mobilised to retrofit the facility so that transfer operations can commence as soon as possible. The procedures outlined in Section 3 will be followed with regard to this.

### 5.2 Hazardous Waste Delivered to Site.

The waste collection vehicles deposit waste within the Transfer Building on the floor from enclosed and covered containers. The Teleporter Operator/Environmental Officer conducts an inspection of the load prior to further processing. Wastes of a potentially hazardous nature are isolated. In the event that such wastes are discovered the following procedures are followed:

In the event of hazardous waste or non-acceptable waste been deposited on the floor of the Transfer Building it is removed immediately to the waste quarantine area within the building (Here the hazardous waste is kept segregated from non-acceptable waste).

The Environmental Officer notifies the Area Manager as soon as possible. The producer of the waste is identified and informed. The incident is photographed, logged in the Unacceptable Waste Register and recorded. The hazardous waste is then removed off-site as soon as possible by a licensed hazardous waste contractor who must also provide a C1 form, if applicable. The unacceptable waste is removed as soon as possible to a facility licenced to receive such waste.

In the event of an employee being exposed to hazardous waste the Safety Officer will ensure First Aid is administered immediately and the employee will be taken to hospital for medical attention. Any information regarding the material to which the employee was exposed will be provided to the medical personnel. The Safety Officer will complete an Accident Report Form and will also put in place procedures to reduce the risk of reoccurrence.

### 5.3 Accident

The procedures to follow in the event of an accident are outlined in 5.2.

## 6. THREATS TO THE ENVIRONMENT

Potential threats to the environment include spills or leaks or exceedances of any emission limit value.

### 6.1 Spillages

All significant spillages occurring at the facility shall be treated as an emergency. The procedures to be followed in the event of such an emergency are detailed below.

In the event of a spillage occurring the shut-off valves for both the foul sewer and surface water drainage system are closed until such time as the all-clear is given by the Area Manager or Environmental Officer. Following the closure of the valves the Area Manager and Environmental Officer are immediately informed of the incident. The spill is assessed for potential risks to Health and Safety of Employees, the public and client's employees, and the potential environmental consequences.

If there is a risk of explosion, or presence of fumes from any chemicals involved, all personnel in the area are evacuated from the area.

The spill is isolated and contained with absorbent socks, booms or sandbags. All effort should be made to prevent the spill from entering a storm or foul drain, or the adjacent stream. In the event that a spillage is contained within the site drainage system (surface water and foul sewer) by the closure of the shut-off valves this spillage remains contained within these systems until such time as approval has been granted by the Environmental Protection Agency and/ or Local Authority to discharge same into the foul drain system or surface water network. Where the spill has entered a storm or foul drain, or the stream, the EPA, local authority and fisheries board must be informed immediately.

Where the spill has occurred on blinded hardcore areas, all efforts should be made to absorb the spill as quickly as possible. The absorbent material containing the spill is stored as detailed below. In addition, any contaminated area is removed and disposed of in the same manner. Where extensive contamination has occurred, outside help will be obtained to assess the extent of the contamination, and advise on remediation methods.

Once the spill has been contained, refer to the Material Safety Data Sheet Register for information regarding potential hazards, information on clean up. Protective clothing must be worn by the clean up team. If relevant information regarding the nature of the material is not

available in the MSDS Register, and where doubt exists, outside help will be obtained from the client or an approved relevant hazardous waste disposal contractor.

All possible ignition sources such as electrical equipment and naked lights should be removed from the area. Any combustibles in the spill area should be removed.

Using a suitable absorbent soak the spillage, and place in a secure container. Any rags used in the clean-up process should also be stored in this secure container. The container is sealed and placed in the hazardous waste storage area for immediate collection and disposal by a certified hazardous waste disposal contractor.

An inventory of the amount of spill adsorbent material is maintained and recorded by the Environmental Officer.

The Area Manager, Environmental Officer and anyone involved in the spill will make a review of the activities leading to the spill, so that procedures can be put in place to avoid reoccurrence. Any recommendations will be included in the Incident Report Form.

## **6.2 Exceedances of Emission Limit Values**

Exceedances of the emission limit values will be identified during the routine monitoring of the foul sewer, emissions to surface water, noise and dust. The monitoring requirements for each of the media are detailed in the Waste Licence. The Environmental Officer is responsible for overseeing the environmental monitoring program.

Once an incident has occurred and corrective action taken the Environmental Officer will issue a report to the Agency outlining the source of the contamination and the actions taken, within 5 days after the initiation of those actions.

## 7.0 EMERGENCY SITUATIONS OUTSIDE NORMAL WORKING HOURS

There exist two potential emergencies which can be grouped under the following headings:

- Fire
- Break-in/Burglary

### 7.1 Fire

The fire risk associated with the Materials Handling and Recycling Building is low/medium and indeed the risk of a fire incident occurring at any other section of the waste transfer facility is also deemed low. While the waste is not high risk in terms of flammability, a significant element of the waste material is considered combustible i.e. cardboard, wood, non-recoverable waste (contains paper and natural & manmade fibres).

Outside of the normal operational hours of the facility no waste is processed. In the event of a fire outside operational hours the fire alarm will sound. A signal will register with ADT Security in Dublin. ADT Security have the contact telephone numbers of the Area Manager and the Environmental Officer. Both personnel and the Waterford Fire Brigade will be contacted immediately to assess the situation. Once on-site the Environmental Officer will shut off the valves to the foul sewer and surface water drainage system.

Once the incident has occurred and the corrective action has taken place, the Environmental Officer will issue a report to the Agency outlining the source of the incident and the actions taken to remedy the situation within 5 working days after the initiation of those actions.

### 7.2 Break-in/Burglary

The site is completely surrounded by security fencing. The only entrance and exit from the facility is immediately in front of the weighbridge. The gates are locked when the facility is closed for business. Close circuit T.V. monitoring of the site operates 24 hours per day.

In the event of a break-in the security alarm will sound. A signal will register with ADT Security in Dublin. ADT Security have the contact telephone numbers of the Area Manager and the Environmental Officer. Both personnel will be contacted immediately in the event of a break-in to assess the situation. The Waterford Garda Station will be contacted once the situation has been fully assessed.

**APPENDIX A**

**EMERGENCY CONTACT NUMBERS**

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## Emergency Telephone List

Association	Contact Name	Contact Phone Numbers
Emergency Services	--	999/112
ONYX Ireand Ltd.	K. Mullins	086-8582469
	M.Keating	086-2717513
	M. Storan	086-8151443
	T.Walsh	086-3834422
Environmental Protection Agency	Office of Environmental Enforcement	053-60600
Waterford City Council	E.Ryan	051-309900
Southern Regional Fisheries Board	--	05223624
John Kavanagh Electrical	John Kavanagh	087-2439772
ONYX Environmental Services	D.Mc Cabe	01-4501100

# ATTACHMENT K

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## K

There are no plans for the closure of the Waste Transfer Station for the foreseeable future. Due to the fact that waste is not permanently held at the facility it will not reach capacity at a certain point in time having received a finite volume of waste. In theory the transfer station can operate indefinitely as waste merely passes through the station.

Only non-hazardous waste is handled at the facility and thus there is unlikely to be any contamination of the site as a result of activities at the station. Therefore, once operations at the station have ceased, it would be a relatively simple process to convert the site into a location for another commercial or industrial activity.

Upon cessation of the activity Onyx Ireland proposes to:

- . Remove all plant equipment
- . Have the site totally cleaned
- . Have all interceptors and drains cleaned out by a licenced waste contractor, once all plant equipment has been removed and the site cleaned.
- . Empty the fuel storage tanks
- . Remove all office equipment
- . Notify the EPA and Local Authorities of the imminent closure of the activity.

Activities at the transfer station are unlikely to result in either groundwater or land contamination and there are no plans for permanent storage of waste on-site. Thus in the event that the transfer station is decommissioned the site would not require a special aftercare management plan.

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# ATTACHMENT L1 & L2

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**The requirements of Section 40(4)[(a) to (i)] of the Waste Management Acts 1996 to 2003 will be met in the following ways:**

**a) any emissions from the recovery will not result in the contravention of any relevant standard etc....**

This licence review served to ensure that any emissions from the proposed additional operations will not result in the contravention of any relevant standard or regulation or emission limit value. Based upon the history of the site and from the information provided there should be no contravention of the relevant standards.

The Waterford facility has chosen a covered storage design with the best practice for storage of recyclables.

**b) activity carried out in accordance with licence not causing environmental pollution.**

ONYX Ireland Ltd. is confident that the proposed additional operations will not generate any environmental emissions that will cause environmental pollution. Given that the existing operations are currently licensed, a sufficient monitoring programme is already in place. As this licence review demonstrates, the only significant addition to the receiving environment is the increase in surface water flow to the dyke/stream on the western boundary. Any additional flow from surface water will be conducted through a full class I oil/water interceptor.

**c) BAT**

ONYX has exercised BAT in the choice and type of building that will maximize control over the storage and segregation of recyclable materials handled at their facility and minimize environmental emissions.

ONYX is part of a large multinational organization and can therefore take advantage of the library of environmental information that is available from its European colleagues. The group is currently operating waste management facilities in 10 European countries and the staff of ONYX Waterford therefore has access to a wealth of best practice information, as well as a large network of technical specialists.

**d) Fit and proper person**

ONYX Ireland Ltd., is one of the largest waste management companies in the country and prides itself on the provision of waste management solutions at all levels of the Waste Management Hierarchy. In recent years, the company has expressed an interest in moving away from the traditional disposal routes which has seen the forming of a partnership with the Waterford City council in the management of the Kilbarry composting facility in Waterford.

The ONYX Waterford facility already holds a Waste Licence (177-2) and therefore company has already proved that they are a *fit and proper person*.

The management at ONYX Waterford has extensive experience in the waste management industry and the extended facility will be operated by a team of dedicated professionals. The Operations Supervisor, The Facility Manager and Environmental Officer have successfully completed the FAS Waste Management course.

Neither management nor staff at ONYX holds any criminal convictions under the 1996 Waste Management Act, or indeed any other environmental legislation.

The applicant's technical knowledge and qualifications are further expanded on in Section 2.9 of the EIS.

**( e ) the applicant has complied with any requirements under section 53.**

**(f) energy will be used efficiently in the carrying on of activity concerned**

Onyx Ireland utilizes electricity on site for powering lights & office equipment. Every effort is made to ensure that electricity is used efficiently.

**(g) any noise from the activity will comply with, or will not result in the contravention of, any regulations under section 106 of the Act f 1992.**

Noise from any activities on site is regulated by Waste Licence 177-2. Noise emissions must adhere to this.

**(h) necessary measures will be taken to prevent accidents carrying on of the activity concerned and, where an accident occurs, to limit its consequences for the environment**

Onyx Ireland operates it's site in Waterford in accordance with a Health & Safety Statement which ensures that all workers are working in a safe environment with procedures in place.

Emergency Response Procedures (included in Attachment J) are adhered to in the case of threats to the environment, emergency situations outside normal working hours, threats to workers health & safety etc.

Onyx Ireland Ltd. is being assessed against the provisions of OSHAS 18001 in it's Dublin facility. The approved quality administration systems apply to the company's Health & Safety Systems. This registration is subject to the company maintaining a Health & Safety System, to the above standard, which will be monitored by NQA. It is hoped to also attain this accreditation in the Waterford Depot in 2006.

**(i) necessary measures will be taken upon the permanent cessation of the activity concerned (including such a cessation resulting from the abandonment of the activity) to avoid any risk of environmental pollution and return the site of the activity to a satisfactory state.**

Should the activities at the site cease, Onyx would propose to clean the site, drains and interceptors as detailed in Attachment K.

Any financial commitments or liabilities that may have been or will be entered into or incurred in carrying on the activity to which the application relates or in consequence of ceasing to carry out that activity are covered by the insurance policy as detailed in Attachment L.

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