



Waste Licence Application Form

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EPA Ref. N^o: <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

INTRODUCTION

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

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

LOCATION	H1	
CHECKED	Applicant <input checked="" type="checkbox"/>	Official <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,

LOCATION	G	
CHECKED	Applicant <input checked="" type="checkbox"/>	Official <input type="checkbox"/>

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

LOCATION	D	
CHECKED	Applicant <input checked="" type="checkbox"/>	Official <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,

LOCATION	L.1	
CHECKED	Applicant <input checked="" type="checkbox"/>	Official <input type="checkbox"/>

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(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,

LOCATION	E	
CHECKED	Applicant <input checked="" type="checkbox"/>	Official <input type="checkbox"/>

(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,

LOCATION	F.1	
CHECKED	Applicant <input checked="" type="checkbox"/>	Official <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,

LOCATION	F.2 – F.9	
CHECKED	Applicant <input checked="" type="checkbox"/>	Official <input type="checkbox"/>

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

LOCATION	H.4	
CHECKED	Applicant <input checked="" type="checkbox"/>	Official <input type="checkbox"/>

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

LOCATION	H.4	
CHECKED	Applicant <input checked="" type="checkbox"/>	Official <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,

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

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

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

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

(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

LOCATION	J.1	
CHECKED	Applicant <input checked="" type="checkbox"/>	Official <input type="checkbox"/>

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

LOCATION	J.1	
CHECKED	Applicant <input checked="" type="checkbox"/>	Official <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,

LOCATION	B.8	
CHECKED	Applicant <input checked="" type="checkbox"/>	Official <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,

LOCATION	F.1.4	
CHECKED	Applicant <input checked="" type="checkbox"/>	Official <input type="checkbox"/>

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

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

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,

LOCATION	B.6	
CHECKED	Applicant <input checked="" type="checkbox"/>	Official <input type="checkbox"/>

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

LOCATION	B.6	
CHECKED	Applicant <input checked="" type="checkbox"/>	Official <input type="checkbox"/>

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

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

LOCATION	B.6	
CHECKED	Applicant <input checked="" type="checkbox"/>	Official <input type="checkbox"/>

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

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

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

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

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

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**.

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

Name*: Murphy Environmental (a registered trading division of Murphy Concrete (Manufacturing) Ltd.)

Address: Hollywood Great,
Nags Head,
Naul,
County Dublin

Tel: 01 8433744

Fax: 01 8433747

e-mail: patricia_rooney@murphyenvironmental.ie

* 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: Patricia Rooney

Address: Murphy Environmental (a registered trading division of Murphy Concrete (Manufacturing) Ltd.)
Hollywood Great
Nags Head,
Naul,
County Dublin

Tel: 01 8433744

Fax: 01 8433747

e-mail: patricia_rooney@murphyenvironmental.ie

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

Address: Murphy Concrete (Manufacturing) Ltd.
6 Hampton Place
Balbriggan
Co. Dublin

Tel: 01 8412827

Fax: 01 8412547

e-mail: patricia_rooney@murphyenvironmental.ie

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

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

Landowner	<input checked="" type="checkbox"/>
Lessee	<input type="checkbox"/>
Prospective Purchaser	<input type="checkbox"/>
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 lessee(s) 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: Not Applicable

Address:

Tel:

Fax:

e-mail:

*Current at the time the application is submitted

B.2 Location of Activity

Name: Murphy Environmental (a registered trading division of Murphy Concrete (Manufacturing) Ltd.)

Address*: Hollywood Great
Nags Head,
The Naul,
County Dublin

Tel: 01 8433744

Fax: 01 8433747

e-mail: patricia_rooney@murphyenvironmental.ie

* Include any townland

National Grid Reference (8 digit 4E,4N)	E315723 N258073
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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:	Fingal County Council
Address:	P.O. Box 174, County Hall, Swords, Co. Dublin.
Tel:	01 8905000
Fax:	01 8906779

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?

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

Local Authority Planning File Reference N^o:	F07A/0262
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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.

Name: Not Applicable

Address:

Tel:

Fax:

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.

Within SFADCo. Area	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.

Name: Health Service Executive: Eastern Region, Northern Area

Address: Swords Business Campus

Balheary Road,

Swords, Co. Dublin

Tel: 01 8131800

Fax: 01 8131870

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.**

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

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

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.

Maximum Annual Tonnage (tpa)	500,000
Year	2007

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)	25,000

TABLE B.7.4 (FOR A LANDFILL APPLICATION)

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

(a) landfill for hazardous waste	<input type="checkbox"/>
(b) landfill for non-hazardous waste	<input type="checkbox"/>
(c) landfill for inert waste	<input checked="" type="checkbox"/>

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.

Regulations Apply	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
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.

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	Existing
D.1.b	DESIGNS FOR SITE ROADS	Y	Existing
D.1.c	DESIGN OF HARDSTANDING AREAS	Y	Existing
D.1.d	PLANT	Y	Existing
D.1.e	WHEEL-WASH	Y	Existing
D.1.f	LABORATORY FACILITIES	N	
D.1.g	DESIGN AND LOCATION OF FUEL STORAGE AREAS	Y	Existing
D.1.h	WASTE QUARANTINE AREAS	Y	Existing
D.1.i	WASTE INSPECTION AREAS	Y	Existing
D.1.j	TRAFFIC CONTROL	Y	Existing
D.1.k	SEWERAGE AND SURFACE WATER DRAINAGE INFRASTRUCTURE	Y	Existing
D.1.l	ALL OTHER SERVICES	Y	Existing
D.1.m	PLANT SHEDS, GARAGES AND EQUIPMENT COMPOUND	Y	Existing
D.1.n	SITE ACCOMMODATION	Y	Existing
D.1.o	A FIRE CONTROL SYSTEM, INCLUDING WATER SUPPLY	Y	Existing
D.1.p	CIVIC AMENITY FACILITIES	N	
D.1.q	ANY OTHER WASTE RECOVERY INFRASTRUCTURE	N	
D.1.r	COMPOSTING INFRASTRUCTURE	N	
D.1.s	CONSTRUCTION AND DEMOLITION WASTE INFRASTRUCTURE	N	
D.1.t	INCINERATION INFRASTRUCTURE (IF APPLICABLE).	N	

	PROVIDE INFORMATION TO FULFIL ARTICLE 4 (2) & (3) OF THE INCINERATION OF WASTE DIRECTIVE		
D.1.u	ANY OTHER INFRASTRUCTURE	N	

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	Y	See attachment
D.3.b	What type of liner system is specified?	Y	See attachment
D.3.c	Has a Quality Control Plan been specified?	Y	See Attachment
D.3.d	Has a Quality Assurance Plan been specified?	Y	See attachment
D.3.e	Have independent, third-party supervision, testing and controls been specified?	Y	See attachment
D.3.f	Have basal gradients for all cells and access ramps to the cells been designed?	Y	See attachment
D.3.g	Has a leak detection survey been specified?	Y	See attachment

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?	Y	See attachment
D.4.b	Have annual quantities of leachate been calculated?	Y	See attachment
D.4.c	Has the total quantity of leachate been calculated?	Y	See attachment
D.4.d	Have the size of the cells been specified taking account of the water balance calculations?	Y	See attachment
D.4.e	Has a leachate collection system been specified?	Y	See attachment
D.4.f	Has a leachate storage system been specified?	Y	See attachment
D.4.g	Has a system for monitoring the level of leachate in the waste been designed?	Y	See attachment
D.4.h	Is leachate recirculation proposed/practised?	Y	See attachment
D.4.i	Has leachate treatment on-site been specified?	N	
D.4.j	Has leachate removal been specified?	Y	See attachment

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	Is there a Landfill Gas Management Plan? 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:	N	Not Applicable
D.5b	Is there a passive venting system?	N	Not Applicable
D.5c	Does the passive system cover all of the filled area?	N	Not Applicable
D.5d	Have gas alarm systems been installed in the site buildings?	N	Not Applicable
D.5e	Have measures been installed to prevent landfill gas migration (e.g. barriers)?	N	Not Applicable
D.5f	Has a time-scale been proposed for the installation of landfill gas infrastructure?	N	Not Applicable
D.5g	Is gas flaring undertaken at the site?	N	Not Applicable
D.5h	Is there an active (i.e., pumped) landfill gas extraction system?	N	Not Applicable
D.5i	Does the active system cover all of the filled area?	N	Not Applicable
D.5j	Is landfill gas used to generate energy at the site?	N	Not Applicable
D.5k	Have emissions from the flarestack and utilisation plant been assessed for source, composition, quantity and level and rate?	N	Not Applicable
D.5l	Has a maintenance programme for the control system been specified?	N	Not Applicable
D.5m	Has a condensate removal system been designed?	N	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?	N	Not Required
D.6b	Has the intermediate cover been specified?	N	Not Required
D.6c	Has the temporary capping been specified?	N	Not Required
D.6d	Has the Capping System been designed and does it meet the requirements of the Landfill Directive Annex 1 (3.3)?	Y	See attachment
D.6e	Does the Capping System include a flexible membrane liner?		
D.6f	Have all capping materials been specified?		
D.6g	Has a Method Statement for construction been produced?		
D.6h	Has a Quality Control Plan been produced?		
D.6i	Has a Quality Assurance Plan been produced?		
D.6j	Has a programme for monitoring landfill stability been developed?		
D.6k	Has a programme for monitoring landfill settlement been developed?		

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

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

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

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

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

F.6 Noise

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

F.7 Meteorological Data

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

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

F.8 Leachate

Monitoring Arrangements specified	yes <input checked="" type="checkbox"/>	no <input type="checkbox"/>	not applicable <input type="checkbox"/>
Monitoring points identified, (plus 12-figure grid references)	yes <input checked="" type="checkbox"/>	no <input type="checkbox"/>	not applicable <input type="checkbox"/>
Attachment included	yes <input checked="" type="checkbox"/>	no <input type="checkbox"/>	not applicable <input 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 ³)	Proposed Frequency of Analysis	Information Included Y/N	Method of Analysis	Information Included Y/N
Inlet					
Methane (CH ₄) % v/v					
Carbon dioxide (CO ₂) %v/v					
Oxygen (O ₂) % v/v					
Outlet					
Volumetric Flow Rate					
SO ₂					
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 ₄) % v/v					
Carbon Dioxide (CO ₂) % v/v					
Oxygen (O ₂) % 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				

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

Attachment included	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**.

Attachment included	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		200	Class 1		
Class 2			Class 2		
Class 3			Class 3		1,300
Class 4			Class 4		600
Class 5		495,000	Class 5		
Class 6			Class 6		
Class 7			Class 7		
Class 8			Class 8		
Class 9			Class 9		
Class 10			Class 10		
Class 11			Class 11		
Class 12			Class 12		
Class 13		1,300	Class 13		1,600

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	Inert waste (tonnes per annum)	Hazardous waste (tonnes per annum)	Total annual quantity of waste (tonnes per annum)
2003 (Actual)	20,750		20,750
2004 (Actual)	173,037		173,037
2005 (Actual)	330,973		330,973
2006 (Actual)	339,753		339,753
2007 (Proposed)	500,000		500,000

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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			
Commercial			
Sewage Sludge			
Construction and Demolition	340,000	500,000	4,750,000
Industrial Non-Hazardous Sludges			
Industrial Non-Hazardous Solids			
Hazardous *(Specify detail in Table H 1.2)			
Inert Waste imported for restoration purposes		To be agreed with the Agency as per Restoration Proposals	

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*** 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			
OTHER HAZARDOUS WASTE (APPLICANT TO SPECIFY)			

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 (m³) 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)

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- (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**.

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

Attachment included	yes <input checked="" type="checkbox"/>	no <input type="checkbox"/>	not applicable <input type="checkbox"/>
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SECTION L STATUTORY REQUIREMENTS

L. 1 Section 40(4) WMA

Indicate how all the requirements of Section 40(4)[(a) to (f)] 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.

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

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- 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.

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

ANNEX 1 STANDARD FORMS

Standard forms are provided in this section for the recording and presentation of environmental monitoring and site investigation results

TABLE E.1(i) LANDFILL GAS FLARE EMISSIONS TO ATMOSPHERE
Emission Point:

Emission Point Ref. N ^o :	Not Applicable
Location :	
Grid Ref. (12 digit, 6E,6N):	
Vent Details Diameter:	
Height above Ground(m):	
Date of commencement of emission:	

Characteristics of Emission:

CO	mg/m ³
Total organic carbon (TOC)	mg/m ³
NO _x	mg/Nm ³ 0°C. 3% O ₂ (Liquid or Gas), 6% O ₂ (Solid Fuel)
Maximum volume of emission	m ³ /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 ^o :	Not Applicable
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 ³ /d	Maximum/day	m ³ /d
Maximum rate/hour	mg/h	Min efflux velocity	m.sec ⁻¹
(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 ₂			

(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
---------------------------	-------------------------------------



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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 ⁽¹⁾				Brief description of treatment	As discharged ⁽¹⁾					
	mg/Nm ³		kg/h			mg/Nm ³		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

Emission point Reference Numbers	Description	Emission details ¹				Abatement system employed
		material	mg/Nm ³⁽²⁾	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.

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

Emission Point: SWD-1

Emission Point Ref. N ^o :	SWD-1
Source of Emission:	Water discharge after flowing through silt trap/oil interceptor
Location :	Discharge point to the stream which is located to the north of the facility. (Clonany Bridge)
Grid Ref. (10 digit, 5E,5N):	315660E, 258522N
Name of receiving waters:	Broadmeadows Catchment
Flow rate in receiving waters:	<p><u>Not measured, however weekly visual inspections (available on-site) generally indicate low flow.</u> _____ m³.sec⁻¹</p> <p>Dry Weather Flow</p> <p>_____ m³.sec⁻¹ 95%ile flow</p>
Available waste assimilative capacity:	Not measured _____ kg/day

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Emission Details:

(i) Volume to be emitted			
Normal/day	Not measured – minimal volumes m ³	Maximum/day	m ³
Maximum rate/hour	m ³		

Emission Point: SWD-2

Emission Point Ref. N ^o :	SWD-2
Source of Emission:	Water pumped from base of quarry
Location :	Discharge point to the stream which is located to the north of the site, east of SWD-1
Grid Ref. (10 digit, 5E,5N):	315847E, 258415N
Name of receiving waters:	Broadmeadows Catchment
Flow rate in receiving waters:	Not measured, however weekly visual inspections (available on-site) generally indicate low flow. _____ m ³ .sec ⁻¹ Dry Weather Flow _____ m ³ .sec ⁻¹ 95%ile flow
Available waste assimilative capacity:	Not measured kg/day

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Emission Details:

(i) Volume to be emitted			
Normal/day	225m ³	Maximum/day	Not measured m ³
Maximum rate/hour	9.38m ³		

(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)	<u>Variable</u> min/hr	hr/day	day/yr
---------------------------	------------------------	--------	--------

Emission Point: SWD-3

Emission Point Ref. N ^o :	SWD-3
Source of Emission:	Water discharge after flowing from settlement pond
Location :	Discharge point to the stream which is located to the north of the facility, east of SWD-2
Grid Ref. (10 digit, 5E,5N):	315937E, 258366N

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Name of receiving waters:	Broadmeadows Catchment
Flow rate in receiving waters:	<u>Not measured, however weekly visual inspections (available on-site) generally indicate low flow.</u> $\text{m}^3 \cdot \text{sec}^{-1}$ Dry Weather Flow _____ $\text{m}^3 \cdot \text{sec}^{-1}$ 95%ile flow
Available waste assimilative capacity:	Not Measured kg/day

Emission Details:

(i) Volume to be emitted			
Normal/day	Not measured m^3	Maximum/day	Not Measured m^3
Maximum rate/hour	Not measured m^3		

(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)	<u>Variable</u> min/hr _____ hr/day _____ day/yr
---------------------------	---

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Emission Point: SWD-4

Emission Point Ref. N ^o :	SWD-4
Source of Emission:	Water discharge after flowing from rock cell at south of site
Location :	Discharge point to the stream which is located to the north of the facility, east of SWD-3
Grid Ref. (10 digit, 5E,5N):	315999E, 258306N
Name of receiving waters:	Broadmeadows Catchment
Flow rate in receiving waters:	<u>Not measured, however weekly visual inspections (available on-site) generally indicate low flow.</u> m ³ .sec ⁻¹ Dry Weather Flow m ³ .sec ⁻¹ 95%ile flow
Available waste assimilative capacity:	Not Measured kg/day

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Emission Details:

(i) Volume to be emitted			
Normal/day	212.15 m ³	Maximum/day	Not Measured m ³
Maximum rate/hour	8.84 m ³		



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(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)	Variable _____ min/hr 3 hr/day day/yr
---------------------------	---

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

Emission point reference number : SWD-1

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	
Q2, 2007 Suspended Solids						<10			
Q1, 2007 Suspended Solids						Dry			
Q4, 2006 Suspended Solids						Dry			
Q3, 2006 Suspended Solids						<10			
Q2, 2006 Suspended Solids						Dry			
Q1, 2006 Suspended Solids						Dry			

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Emission point reference number : SWD-2

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	
Q2, 2007 Suspended Solids						Dry			
Q1, 2007 Suspended Solids						Dry			
Q4, 2006 Suspended Solids						Dry			
Q3, 2006 Suspended Solids						Dry			
Q2, 2006 Suspended Solids						Dry			
Q1, 2006 Suspended Solids						Dry			

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Emission point reference number : SWD-3

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	
Q2, 2007 Suspended Solids						<10			
Q1, 2007 Suspended Solids		<10				16			
Q4, 2006 Suspended Solids						Dry			
Q3, 2006 Suspended Solids						Dry			
Q2, 2006 Suspended Solids						Dry			
Q1, 2006 Suspended Solids						Dry			

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Emission point reference number : SWD-4

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	
Q2, 2007 Suspended Solids						<10			
Q1, 2007 Suspended Solids						Dry			
Q4, 2006 Suspended Solids						<10			
Q3, 2006 Suspended Solids						<10			
Q2, 2006 Suspended Solids						<10			
Q1, 2006 Suspended Solids						<10			

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TABLE E.3(i): EMISSIONS TO SEWER(One page for each emission)

Emission Point: Not Applicable

Emission Point Ref. N ^o :	
Location of connection to sewer :	
Grid Ref. (10 digit, 5E,5N):	
Name of sewage undertaker:	

Emission Details:

(i) Volume to be emitted			
Normal/day	m ³	Maximum/day	m ³
Maximum rate/hour	m ³		

(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 : Not Applicable

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	

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TABLE E.4(i): EMISSIONS TO GROUNDWATER (1 Page for each emission point)

Emission Point or Area: There are no direct emissions to groundwater

Emission Point/Area Ref. N°:	There are no direct emissions to groundwater
Emission Pathway: (borehole, well, percolation area, soakaway, landspreading, etc.)	Not Applicable
Location :	Not Applicable
Grid Ref. (10 digit, 5E,5N):	Not Applicable
Elevation of discharge: (relative to Ordnance Datum)	Not Applicable
Aquifer classification for receiving groundwater body:	Locally important
Groundwater vulnerability assessment (including vulnerability rating):	Moderate
Identity and proximity of groundwater sources at risk (wells, springs, etc):	P97 EIS
Identity and proximity of surface water bodies at risk:	Not Applicable

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Emission Details:

(i) Volume to be emitted			
Normal/day	Not Applicable	Maximum/day	m ³
Maximum rate/hour	m ³		

(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)	Not Applicable	_____ min/hr	_____ hr/day	_____ day/yr
---------------------------	----------------	--------------	--------------	--------------

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Table E.5(i): NOISE EMISSIONS - Noise sources summary sheet

Source	Emission point Ref. No	Equipment Ref. No	Sound Pressure ¹ dBA at reference distance	Octave bands (Hz) Sound Pressure ¹ Levels dB(unweighted) per band								Impulsive or tonal qualities	Periods of Emission	
				31.5	63	125	250	500	1K	2K	4K			8K
Dump truck			82 L _{Aeq} at 10m ⁵⁰ (dB)											
Track Excavator			85 L _{Aeq} at 10m ⁵⁰ (dB)											
Compressor			82 L _{Aeq} at 10m ⁵⁰ (dB)											
Lorry			70 L _{Aeq} at 10m ⁵⁰ (dB)											
Generator			72 L _{Aeq} at 10m ⁵⁰ (dB)											

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

TABLE F.1: ABATEMENT / TREATMENT CONTROL

Emission point reference number : _____

Control ¹ parameter	Equipment ²	Equipment maintenance	Equipment calibration	Equipment back-up

Control ¹ parameter	Monitoring to be carried out ³	Monitoring equipment	Monitoring equipment calibration

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

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

³ List the monitoring of the control parameter to be carried out.



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

Emission Point Reference No(s). : _____

Parameter	Monitoring frequency	Accessibility of Sampling Points

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

F2

Monitoring Point Reference No : D1

Parameter	Monitoring frequency	Accessibility of Sampling point
Dust	Quarterly	Accessible

Monitoring Point Reference No : D2

Parameter	Monitoring frequency	Accessibility of Sampling point
Dust	Quarterly	Accessible

Monitoring Point Reference No : D3

Parameter	Monitoring frequency	Accessibility of Sampling point
Dust	Quarterly	Accessible

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Monitoring Point Reference No : D4

Parameter	Monitoring frequency	Accessibility of Sampling point
Dust	Quarterly	Accessible

Monitoring Point Reference No : D5

Parameter	Monitoring frequency	Accessibility of Sampling point
Dust	Once (for Waste Licence Review Application)	Accessible

Monitoring Point Reference No : D6

Parameter	Monitoring frequency	Accessibility of Sampling point
Dust	Once (for Waste Licence Review Application)	Accessible

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F3

Monitoring Point Reference No : SW1

Parameter	Monitoring frequency	Accessibility of Sampling point
Visual Inspection/Odour	Weekly	Accessible
Ammoniacal Nitrogen	Bi-annual	
Chloride	Bi-annual	
Dissolved Oxygen	Bi-annual	
Electrical Conductivity	Bi-annual	
pH	Bi-annual	
Temperature	Bi-annual	
Calcium	Annually	
Magnesium	Annually	
Manganese	Annually	
Sulphate	Annually	
Sodium	Annually	
Total Alkalinity	Annually	
Total Phosphorus/ Orthophosphate	Annually	

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Monitoring Point Reference No : SW2

Parameter	Monitoring frequency	Accessibility of Sampling point
Visual Inspection/Odour	Weekly	Accessible



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Ammoniacal Nitrogen	Bi-annual	
Chloride	Bi-annual	
Dissolved Oxygen	Bi-annual	
Electrical Conductivity	Bi-annual	
pH	Bi-annual	
Temperature	Bi-annual	
Calcium	Annually	
Magnesium	Annually	
Manganese	Annually	
Sulphate	Annually	
Sodium	Annually	
Total Alkalinity	Annually	
Total Phosphorus/ Orthophosphate	Annually	

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F5

Monitoring Point Reference No : BH4

Parameter	Monitoring frequency	Accessibility of Sampling point
Visual Inspection/Odour	Quarterly	Accessible
Groundwater Level	Quarterly	
Ammoniacal Nitrogen	Quarterly	
Chloride	Quarterly	
Dissolved Oxygen	Quarterly	
Electrical Conductivity	Quarterly	
pH	Quarterly	
Temperature	Quarterly	
Boron	Annually	



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Cadmium	Annually	
Calcium	Quarterly	
Chromium (Total)	Annually	
Copper	Annually	
Cyanide	Annually	
Fluoride	Annually	
Iron	Quarterly	
Lead	Annually	
Magnesium	Annually	
Manganese	Quarterly	
Mercury	Annually	
Potassium	Quarterly	
Sulphate	Quarterly	
Sodium	Quarterly	
Total Phosphorus/ Orthophosphate	Annually	
Total Oxidised Nitrogen	Quarterly	
Total Organic Carbon	Quarterly	
Residue on Evaporation	Annually	
Zinc	Annually	
Phenols	Quarterly	
Faecal Coliforms	Annually	
Total Coliforms	Annually	

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Monitoring Point Reference No : BH5

Parameter	Monitoring frequency	Accessibility of Sampling point
Visual Inspection/Odour	Quarterly	Accessible



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Groundwater Level	Quarterly	
Ammoniacal Nitrogen	Quarterly	
Chloride	Quarterly	
Dissolved Oxygen	Quarterly	
Electrical Conductivity	Quarterly	
pH	Quarterly	
Temperature	Quarterly	
Boron	Annually	
Cadmium	Annually	
Calcium	Quarterly	
Chromium (Total)	Annually	
Copper	Annually	
Cyanide	Annually	
Fluoride	Annually	
Iron	Quarterly	
Lead	Annually	
Magnesium	Annually	
Manganese	Quarterly	
Mercury	Annually	
Potassium	Quarterly	
Sulphate	Quarterly	
Sodium	Quarterly	
Total Phosphorus/ Orthophosphate	Annually	
Total Oxidised Nitrogen	Quarterly	
Total Organic Carbon	Quarterly	
Residue on Evaporation	Annually	
Zinc	Annually	
Phenols	Quarterly	
Faecal Coliforms	Annually	
Total Coliforms	Annually	

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Monitoring Point Reference No : BH6

Parameter	Monitoring frequency	Accessibility of Sampling point
Visual Inspection/Odour	Quarterly	Accessible
Groundwater Level	Quarterly	
Ammoniacal Nitrogen	Quarterly	
Chloride	Quarterly	
Dissolved Oxygen	Quarterly	
Electrical Conductivity	Quarterly	
pH	Quarterly	
Temperature	Quarterly	
Boron	Annually	
Cadmium	Annually	
Calcium	Quarterly	
Chromium (Total)	Annually	
Copper	Annually	
Cyanide	Annually	
Fluoride	Annually	
Iron	Quarterly	
Lead	Annually	
Magnesium	Annually	
Manganese	Quarterly	
Mercury	Annually	
Potassium	Quarterly	
Sulphate	Quarterly	
Sodium	Quarterly	
Total Phosphorus/ Orthophosphate	Annually	
Total Oxidised Nitrogen	Quarterly	
Total Organic Carbon	Quarterly	
Residue on Evaporation	Annually	

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Zinc	Annually	
Phenols	Quarterly	
Faecal Coliforms	Annually	
Total Coliforms	Annually	

Monitoring Point Reference No : BH8

Parameter	Monitoring frequency	Accessibility of Sampling point
Visual Inspection/Odour	Quarterly	Accessible
Groundwater Level	Quarterly	
Ammoniacal Nitrogen	Quarterly	
Chloride	Quarterly	
Dissolved Oxygen	Quarterly	
Electrical Conductivity	Quarterly	
pH	Quarterly	
Temperature	Quarterly	
Boron	Annually	
Cadmium	Annually	
Calcium	Quarterly	
Chromium (Total)	Annually	
Copper	Annually	
Cyanide	Annually	
Fluoride	Annually	
Iron	Quarterly	
Lead	Annually	
Magnesium	Annually	
Manganese	Quarterly	
Mercury	Annually	
Potassium	Quarterly	

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Sulphate	Quarterly	
Sodium	Quarterly	
Total Phosphorus/ Orthophosphate	Annually	
Total Oxidised Nitrogen	Quarterly	
Total Organic Carbon	Quarterly	
Residue on Evaporation	Annually	
Zinc	Annually	
Phenols	Quarterly	
Faecal Coliforms	Annually	
Total Coliforms	Annually	

Monitoring Point Reference No : BH9

Parameter	Monitoring frequency	Accessibility of Sampling point
Visual Inspection/Odour	Quarterly	Accessible
Groundwater Level	Quarterly	
Ammoniacal Nitrogen	Quarterly	
Chloride	Quarterly	
Dissolved Oxygen	Quarterly	
Electrical Conductivity	Quarterly	
pH	Quarterly	
Temperature	Quarterly	
Boron	Annually	
Cadmium	Annually	
Calcium	Quarterly	
Chromium (Total)	Annually	
Copper	Annually	

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Cyanide	Annually	
Fluoride	Annually	
Iron	Quarterly	
Lead	Annually	
Magnesium	Annually	
Manganese	Quarterly	
Mercury	Annually	
Potassium	Quarterly	
Sulphate	Quarterly	
Sodium	Quarterly	
Total Phosphorus/ Orthophosphate	Annually	
Total Oxidised Nitrogen	Quarterly	
Total Organic Carbon	Quarterly	
Residue on Evaporation	Annually	
Zinc	Annually	
Phenols	Quarterly	
Faecal Coliforms	Annually	
Total Coliforms	Annually	

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Monitoring Point Reference No : BH10

Parameter	Monitoring frequency	Accessibility of Sampling point
Visual Inspection/Odour	Quarterly	Accessible
Groundwater Level	Quarterly	
Ammoniacal Nitrogen	Quarterly	
Chloride	Quarterly	
Dissolved Oxygen	Quarterly	
Electrical Conductivity	Quarterly	



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pH	Quarterly	
Temperature	Quarterly	
Boron	Annually	
Cadmium	Annually	
Calcium	Quarterly	
Chromium (Total)	Annually	
Copper	Annually	
Cyanide	Annually	
Fluoride	Annually	
Iron	Quarterly	
Lead	Annually	
Magnesium	Annually	
Manganese	Quarterly	
Mercury	Annually	
Potassium	Quarterly	
Sulphate	Quarterly	
Sodium	Quarterly	
Total Phosphorus/ Orthophosphate	Annually	
Total Oxidised Nitrogen	Quarterly	
Total Organic Carbon	Quarterly	
Residue on Evaporation	Annually	
Zinc	Annually	
Phenols	Quarterly	
Faecal Coliforms	Annually	
Total Coliforms	Annually	

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Monitoring Point Reference No : BH11

Parameter	Monitoring frequency	Accessibility of Sampling point
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Visual Inspection/Odour	Quarterly	Accessible
Groundwater Level	Quarterly	
Ammoniacal Nitrogen	Quarterly	
Chloride	Quarterly	
Dissolved Oxygen	Quarterly	
Electrical Conductivity	Quarterly	
pH	Quarterly	
Temperature	Quarterly	
Boron	Annually	
Cadmium	Annually	
Calcium	Quarterly	
Chromium (Total)	Annually	
Copper	Annually	
Cyanide	Annually	
Fluoride	Annually	
Iron	Quarterly	
Lead	Annually	
Magnesium	Annually	
Manganese	Quarterly	
Mercury	Annually	
Potassium	Quarterly	
Sulphate	Quarterly	
Sodium	Quarterly	
Total Phosphorus/ Orthophosphate	Annually	
Total Oxidised Nitrogen	Quarterly	
Total Organic Carbon	Quarterly	
Residue on Evaporation	Annually	
Zinc	Annually	
Phenols	Quarterly	
Faecal Coliforms	Annually	
Total Coliforms	Annually	

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F6

Monitoring Point Reference No : N4

Parameter	Monitoring frequency	Accessibility of Sampling point
L _{Aeq} , 30 min	Annual	Standard (see note 1)
L _{(A)10} , 30min	Annual	Standard (see note 1)
L _{(A)90} , 30min	Annual	Standard (see note 1)

Note 1: "International Standards Organisation. ISO 1996. Acoustics – description and measurement of Environmental noise. Parts 1, 2 and 3."

Monitoring Point Reference No : N5

Parameter	Monitoring frequency	Accessibility of Sampling point
L _{Aeq} , 30 min	Annual	Standard (see note 1)
L _{(A)10} , 30min	Annual	Standard (see note 1)
L _{(A)90} , 30min	Annual	Standard (see note 1)

Note 1: "International Standards Organisation. ISO 1996. Acoustics – description and measurement of Environmental noise. Parts 1, 2 and 3."

Monitoring Point Reference No : N6



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Parameter	Monitoring frequency	Accessibility of Sampling point
L _{Aeq} , 30min	Annual	Standard (see note 1)
L _{(A)10} , 30min	Annual	Standard (see note 1)
L _{(A)90} , 30min	Annual	Standard (see note 1)

Note 1: "International Standards Organisation. ISO 1996. Acoustics – description and measurement of Environmental noise. Parts 1, 2 and 3."

Monitoring Point Reference No : N7

Parameter	Monitoring frequency	Accessibility of Sampling point
L _{Aeq} , 30min	Once	Standard (see note 1)
L _{(A)10} , 30min	Once	Standard (see note 1)
L _{(A)90} , 30min	Once	Standard (see note 1)

Note 1: "International Standards Organisation. ISO 1996. Acoustics"

Monitoring Point Reference No : N8

Parameter	Monitoring frequency	Accessibility of Sampling point
L _{Aeq} , 30min	Once	Standard (see note 1)



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L(A)10, 30min	Once	Standard (see note 1)
L(A)90, 30min	Once	Standard (see note 1)

Note 1: "International Standards Organisation. ISO 1996. Acoustics

Monitoring Point Reference No : N9

Parameter	Monitoring frequency	Accessibility of Sampling point
L _{Aeq} , 30min	Once	Standard (see note 1)
L(A)10, 30min	Once	Standard (see note 1)
L(A)90, 30min	Once	Standard (see note 1)

Note 1: "International Standards Organisation. ISO 1996. Acoustics

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F8

Monitoring Point Reference No : LC1

Parameter	Monitoring frequency	Accessibility of Sampling point
Visual Inspection/Odour	Biannually	Accessible
Leachate Level	Biannually	
Ammoniacal Nitrogen	Biannually	
COD	Biannually	
Chloride	Biannually	
Electrical Conductivity	Biannually	



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pH	Biannually	
List I/II Organic Substances	Annually	
Potassium	Biannually	
Sulphate	Biannually	
Sodium	Biannually	
Total Oxidised Nitrogen	Biannually	
Phenols	Biannually	

Monitoring Point Reference No : LC2

Parameter	Monitoring frequency	Accessibility of Sampling point
Visual Inspection/Odour	Biannually	Accessible
Leachate Level	Biannually	
Ammoniacal Nitrogen	Biannually	
COD	Biannually	
Chloride	Biannually	
Electrical Conductivity	Biannually	
pH	Biannually	
List I/II Organic Substances	Annually	
Potassium	Biannually	
Sulphate	Biannually	
Sodium	Biannually	
Total Oxidised Nitrogen	Biannually	
Phenols	Biannually	

Monitoring Point Reference No : LC3

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Parameter	Monitoring frequency	Accessibility of Sampling point
Visual Inspection/Odour	Biannually	Accessible
Leachate Level	Biannually	
Ammoniacal Nitrogen	Biannually	
COD	Biannually	
Chloride	Biannually	
Electrical Conductivity	Biannually	
pH	Biannually	
List I/II Organic Substances	Annually	
Potassium	Biannually	
Sulphate	Biannually	
Sodium	Biannually	
Total Oxidised Nitrogen	Biannually	
Phenols	Biannually	

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

Ref. N ^o or Code	Material/ Substance ⁽¹⁾	CAS Number	Danger ⁽²⁾ Category	Amount Stored (tonnes)	Annual Usage (tonnes)	Nature of Use	R ⁽³⁾ - Phrase	S ⁽³⁾ - Phrase
	Anti-Seize Aluminium	7429-90-5	Oxidising	50 kg		Lubricant	Not classified	Not classified
	Air1	7732-18-5	Not determined	11.09 m ³		Urea Solution	Not classified	Not classified
	Traffic Film Remover	57-13-6 131-058-3	Harmful	20 l		Cleanser for transport vehicles	36/38, 52	2, 37/39, 61, 62
	Hand Cleaner	90170-43-7 68131-39-5 5064-31-3 69001-36-5	Dangerous for the Environment Irritant Irritant to eyes	6 l		Hand Cleaner	36	Not classified
	Acetylene	85711-69-9 68603-38-3 74-86-2	Highly Flammable	6.16 m ³		Acetylene	Not classified	Not classified
	Oxygen	67-64-1 7782-44-7	Oxidising	11 m ³		Oxygen	Not classified	Not classified
	SK Premium	64742-47-8	Harmful Irritant	50 kg		Degreaser	65, 66	16, 23, 24, 43, 61, 62,
	Gem Superfleet 10 Oil		Low toxicity Oxidising	600 l		Engine Lubricant	36, 38	Not classified
	Gem Super Turbofleet LD Oil		Low toxicity Oxidising Irritant	1200 l		Engine Lubricant	Not classified	Not classified
	Gem Hydraulic Oil 100 AW		Low hazard Irritant Low toxicity	600 l		Hydraulic Lubricant	Not classified	Not classified

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Ref. N° or Code	Material/ Substance ⁽¹⁾	CAS Number	Danger ⁽²⁾ Category	Amount Stored (tonnes)	Annual Usage (tonnes)	Nature of Use	R ⁽³⁾ - Phrase	S ⁽³⁾ - Phrase
	Gem Multi Purpose EP2 Grease		Not determined	50 kg		Lubricating Grease	Not classified	Not classified
	Gem Torque Fluid		Low Hazard Irritant	100 l		Transmission Fluid	Not classified	Not classified
	Castrol Antifreeze	107-21-1	Harmful	200 l		Coolant	22	2, 46
	Castrol Assuron T Plus SAE10W		Irritant	40 l		Diesel engine oil	Not classified	Not classified
	Castrol Tecton 15W-40	68649-42-3	Irritant	260 l		Engine crankcase lubricant	38, 41, 51/53	Not classified
	Castrol Alpha SP 150		Irritant	150 l			Not classified	Not classified
	Castrol Hyspin AWS 32		Irritant	40 l			Not classified	Not classified
	Auto diesel/Derv	068334-30-5 269-822-7	Harmful Dangerous for the Environment	26,845 l		Diesel Fuel	40, 51/53	2, 36/37, 61
	Unleaded Gasoline	86290-81-5 289-220-8	Extremely Flammable Toxic Dangerous for the Environment	20 l		Fuel	12, 45, 51/53, 65	45, 53, 61

- 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



WASTE Application Form

TABLE H.1(i): WASTE - Hazardous Waste Recovery/Disposal (Proposed)

Waste material	EWC Code	Main source ¹	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 ³ / month			
Not Applicable							

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

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

Waste material	EWC Code	Main source ¹	Quantity		On-site recovery/disposal ² (Method & Location)	Off-site Recovery, reuse or recycling (Method, Location & Undertaker)	Off-site Disposal (Method, Location & Undertaker)
			Tonnes / month (based on monthly averages of 2006 data)	m ³ / month			
Bottom Ash & Boiler Ash	10 01 01	C & D Waste	520		Disposed of by landfilling		
Waste from castings and non ferrous	10 10 06	C & D Waste	119		Disposed of by landfilling		
Concrete	17 01 01	C & D Waste	16		Disposed of by landfilling		
Bricks	17 01 02	C & D Waste	1		Disposed of by landfilling		
Mixture of Concrete , Bricks, Tiles and Ceramics	17 01 07	C & D Waste	3		Disposed of by landfilling		
Glass	17 02 02	C & D Waste	72		Disposed of by landfilling		
Bituminous Mixture	17 03 02	C & D Waste	25		Disposed of by landfilling		
Clay	17 05 01	C & D Waste	1		Disposed of by landfilling		
Soil and Stones	17 05 04	C & D Waste	21,280		Disposed of by landfilling		
Insulation Material	17 06 04	C & D Waste	3		Disposed of by landfilling		
Sludge from water clarification	19 09 02	C & D Waste	275		Disposed of by landfilling		
Minerals (Sand & Stones)	19 12 09	C & D Waste	233		Disposed of by landfilling		
Waste from Mechanical Treatment		C & D Waste	5,768		Disposed of by landfilling		
Canteen Waste		Commercial Waste	0.5				Landfill, Greenstar, St Margaret's
Paper		Commercial Waste	0.5			Fingal Recycling	

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- 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



WASTE Application Form

Table I.2(i) SURFACE WATER QUALITY

(Sheet 1 of 2) Monitoring Point/ Grid Reference: SW1

Parameter	Results (mg/l)				Sampling method ² (grab, drift etc.)	Normal Analytical Range ² Liaise with Alcontrol	Analysis method / technique
	Date Q2 2007	Date Q4 2006	Date Q2 2006	Date Q4 2005			
pH	8.4	7.93	8.07	7.48	Grab	1.0-14.0ph units	Meter
Temperature	8.2	12	9.1	11	Grab	10-100°C	Meter
Electrical conductivity EC	0.691	0.653	0.29	0.958	Grab	0-19.9mScm ⁻¹	Meter
Ammoniacal nitrogen NH ₄ -N	<0.2	<0.2	<0.2	<0.2	Grab	0-10mg/l	Spectro
Chemical oxygen demand	16	17	<15	31	Grab	15-10,000mg/l	Spectro
Biochemical oxygen demand	Not Applicable	Not Applicable	Not Applicable	Not Applicable			
Dissolved oxygen DO	8.3	7.74	9.33	5.7	Grab	Not applicable	Meter
Calcium Ca	Not Applicable	Not Applicable	Not Applicable	Not Applicable			
Cadmium Cd	Not Applicable	Not Applicable	Not Applicable	Not Applicable			
Chromium Cr	Not Applicable	Not Applicable	Not Applicable	Not Applicable			
Chloride Cl	45	41	41	45	Grab	0-1,000mg/l	Kone
Copper Cu	Not Applicable	Not Applicable	Not Applicable	Not Applicable			
Iron Fe	Not Applicable	Not Applicable	Not Applicable	Not Applicable			
Lead Pb	Not Applicable	Not Applicable	Not Applicable	Not Applicable			
Magnesium Mg	11.88	-	-	16.82	Grab	0-10,000µg/l	ICP MS
Manganese Mn	0.229	-	-	0.308	Grab	0-100µg/l	ICP MS

*ALL MONITORING DATA FOR THIS POINT DATING FROM Q2, 2003 CAN BE VIEWED ON SITE.



WASTE Application Form

Surface Water Quality (Sheet 2 of 2)

Parameter	Results (mg/l)				Sampling method (grab, drift etc.)	Normal Analytical Range	Analysis method / technique
	Date Q2, 2007	Date Q4, 2006	Date Q2, 2006	Date Q4, 2005			
Mercury Hg	Not Applicable	Not Applicable	Not Applicable	Not Applicable			
Nickel Ni	Not Applicable	Not Applicable	Not Applicable	Not Applicable			
Potassium K	Not Applicable	Not Applicable	Not Applicable	Not Applicable			
Sodium Na	25	-	-	25	Grab	0.2-6.0mg/l	Flame Photo
Sulphate SO ₄	164	-	-	299	Grab	0-1,000mg/l	Kone
Zinc Zn	Not Applicable	Not Applicable	Not Applicable	Not Applicable			
Total alkalinity (as CaCO ₃)	280	-	-	180	Grab	1-2,000mg/l	Titration
Total organic carbon TOC	Not Applicable	Not Applicable	Not Applicable	Not Applicable			
Total oxidised nitrogen TON	Not Applicable	Not Applicable	Not Applicable	Not Applicable			
Nitrite NO ₂	Not Applicable	Not Applicable	Not Applicable	Not Applicable			
Nitrate NO ₃	Not Applicable	Not Applicable	Not Applicable	Not Applicable			
Faecal coliforms (/100mls)	Not Applicable	Not Applicable	Not Applicable	Not Applicable			
Total coliforms (/100mls)	Not Applicable	Not Applicable	Not Applicable	Not Applicable			
Phosphate PO ₄	<0.03	-	-	0.05		0-100µg/l	Kone
pH	8.17	8.12	8.12	7.57	Grab	1.0-14.0ph units	Meter
Temperature	10.6	11.5	10.7	-	Grab	-10-100°C	Meter
Electrical conductivity EC	0.629	0.798	0.668	1.223	Grab	0-19.9mScm ⁻¹	Meter
Ammoniacal nitrogen NH ₄ -N	<0.2	<0.2	<0.2	0.3	Grab	0-10mg/l	Spectro



WASTE Application Form

*ALL MONITORING DATA FOR THIS POINT DATING FROM Q2, 2003 CAN BE VIEWED ON SITE.

(Sheet 1 of 2) Monitoring Point/ Grid Reference: SW2

Parameter	Results (mg/l)				Sampling method ² (grab, drift etc.)	Normal Analytical Range ²	Analysis method / technique
	Date Q2 2007	Date Q4 2006	Date Q2 2006	Date Q4 2005			
Chemical oxygen demand	<15	<15	<15	18	Grab	15-10,000mg/l	Spectro
Biochemical oxygen demand	Not Applicable	Not Applicable	Not Applicable	Not Applicable			
Dissolved oxygen DO	10.45	8.66	9.13	5.9	Grab	Not applicable	Meter
Calcium Ca	Not Applicable	Not Applicable	Not Applicable	Not Applicable			
Cadmium Cd	Not Applicable	Not Applicable	Not Applicable	Not Applicable			
Chromium Cr	Not Applicable	Not Applicable	Not Applicable	Not Applicable			
Chloride Cl	40	33	38	61	Grab	0-1,000mg/l	Kone
Copper Cu	Not Applicable	Not Applicable	Not Applicable	Not Applicable			
Iron Fe	Not Applicable	Not Applicable	Not Applicable	Not Applicable			
Lead Pb	Not Applicable	Not Applicable	Not Applicable	Not Applicable			
Magnesium Mg	12.04	-	-	-	Grab	0-10,000µg/l	ICP MS
Manganese Mn	0.005	-	-	-	Grab	0-100µg/l	ICP MS
Mercury Hg	Not Applicable	Not Applicable	Not Applicable	Not Applicable			

*ALL MONITORING DATA FOR THIS POINT DATING FROM Q2, 2003, CAN BE VIEWED ON SITE.



WASTE Application Form

Surface Water Quality (Sheet 2 of 2)

Parameter	Results (mg/l)				Sampling method (grab, drift etc.)	Normal Analytical Range	Analysis method / technique
	Date Q2,2007	Date Q4, 2006	Date Q2, 2006	Date Q4, 2005			
Nickel Ni	Not Applicable	Not Applicable	Not Applicable	Not Applicable			
Potassium K							
Sodium Na	19.5	-	-	-	Grab	0.2-6.0mg/l	Flame Photo
Sulphate SO ₄	154	-	-	-	Grab	0-1,000mg/l	Kone
Zinc Zn	Not Applicable	Not Applicable	Not Applicable	Not Applicable			
Total alkalinity (as CaCO ₃)	230	-	-	-	Grab	1-2,000mg/l	Titration
Total organic carbon TOC	Not Applicable	Not Applicable	Not Applicable	Not Applicable			
Total oxidised nitrogen TON	Not Applicable	Not Applicable	Not Applicable	Not Applicable			
Nitrite NO ₂	Not Applicable	Not Applicable	Not Applicable	Not Applicable			
Nitrate NO ₃	Not Applicable	Not Applicable	Not Applicable	Not Applicable			
Faecal coliforms (/100mls)	Not Applicable	Not Applicable	Not Applicable	Not Applicable			
Total coliforms (/100mls)	Not Applicable	Not Applicable	Not Applicable	Not Applicable			
Phosphate PO ₄	<0.03	-	-	-	Grab	0-100µg/l	Kone

*ALL MONITORING DATA FOR THIS POINT DATING FROM Q2, 2003 CAN BE VIEWED ON SITE.

Table I.4(i) GROUNDWATER QUALITY

(Sheet 1 of 2) Monitoring Point/ Grid Reference: BH4

Parameter	Results (mg/l)				Sampling method (composite etc.)	Normal Analytical Range	Analysis method / technique
	Date Q2 2007	Date Q1 2007	Date Q4 2006	Date Q3 2006			
pH	7.17	7.86	7.53	7.27	Grab	1.0-14.0ph units	Meter
Temperature	13.3	10.5	11.5	10.5	Grab	-10-100°C	Meter
Electrical conductivity EC	0.708	0.843	0.636	0.612	Grab	0-19.9mScm ⁻¹	Meter
Ammoniacal nitrogen NH ₄ -N	<0.2	<0.2	<0.2	<0.2	Grab	0-10mg/l	Spectro
Dissolved oxygen DO	3.44	3.87	4.34	2.30	Grab	Not applicable	Meter
Residue on evaporation (180°C)	-	1141	-	-	Grab	Not applicable	Meter
Calcium Ca	152	170	119	128	Grab	0-10,000µg/l	ICP MS
Cadmium Cd	-	<0.0004	-	-	Grab	0-100µg/l	ICP MS
Chromium Cr	-	0.007	-	-	Grab	0-100µg/l	ICP MS
Chloride Cl	45	57	29	22	Grab	0-1,000mg/l	Kone
Copper Cu	-	<0.0001	-	-	Grab	1-100µg/l	ICP MS
Cyanide Cn, total	<0.05	<0.05	<0.05	<0.05	Grab	0.05-1mg/l	Spectro
Iron Fe	0.018	0.044	<0.002	<0.002	Grab	0-100µg/l	ICP MS
Lead Pb	-	<0.0001	-	-	Grab	0-100µg/l	ICP MS
Magnesium Mg	-	-	-	-	Grab	0-10,000µg/l	ICP MS
Manganese Mn	0.001	<0.001	0.003	<0.001	Grab	0-100µg/l	ICP MS
Mercury Hg	-	<0.00005	-	-	Grab		CV AA
Nickel Ni	Not Applicable	Not Applicable	Not Applicable	Not Applicable		0-100µg/l	ICP MS
Potassium K	1.6	1.6	1.5	1.6	Grab	0.2-12mg/l	Flame Photo

*ALL MONITORING DATA FOR THIS POINT DATING FROM Q2, 2003 CAN BE VIEWED ON SITE.

Parameter	Results (mg/l)				Sampling method (composite, dipper etc.)	Normal Analytical Range	Analysis method / technique
	Date Q2 2007	Date Q1 2007	Date Q4 2006	Date Q3 2006			
Sodium Na	13	14	10	15	Grab	0.2-6.0mg/l	Flame Photo
Phosphate PO ₄	-	0.05	-	-	Grab	0-500µg/l	Kone
Sulphate SO ₄	107	100	57	56	Grab	0-1,100µg/l	Kone
Zinc Zn	-	0.012	-	-	Grab	0-100µg/l	ICP MS
Total alkalinity (as CaCO ₃)	Not Applicable	Not Applicable	Not Applicable	Not Applicable		1-2,000mg/l	Titration
Total organic carbon TOC	4	4	2	<2	Grab	1-60mg/l	IR
Total oxidised nitrogen TON	9.1	8.6	3.3	3.9	Grab	0.3-50mg/l	Kone
Arsenic As	0.006	0.005	0.004	0.005	Grab	0-100µg/l	ICP MS
Barium Ba	0.037	0.06	0.04	0.04	Grab	0-100µg/l	ICP MS
Boron B	-	0.031	-	-	Grab	0-500µg/l	ICP MS
Fluoride F	-	<0.1	-	-	Grab	0.1-1.5mg/l	Kone
Phenol	<0.01	<0.001	<0.1	<0.1	Grab	0.01-30mg/l	HPLC
Phosphorus P	-	0.79	-	-	Grab	0-500µg/l	ICP Iris
Selenium Se	Not Applicable	Not Applicable	Not Applicable	Not Applicable			
Silver Ag	Not Applicable	Not Applicable	Not Applicable	Not Applicable			
Nitrite NO ₂	Not Applicable	Not Applicable	Not Applicable	Not Applicable			
Nitrate NO ₃	Not Applicable	Not Applicable	Not Applicable	Not Applicable			
Faecal coliforms (/100mls)	-	<1	-	-	Grab	Not applicable	Filtration
Total coliforms (/100mls)	-	10	-	-	Grab	Not Applicable	Filtration
Water level (m OD)	92.87	93.14	91.92	92.34	Grab	0-100m	Dip Meter

*ALL MONITORING DATA FOR THIS POINT DATING FROM Q2, 2003 CAN BE VIEWED ON SITE.



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(Sheet 1 of 2) Monitoring Point/ Grid Reference: BH5

Parameter	Results (mg/l)				Sampling method (composite etc.)	Normal Analytical Range	Analysis method / technique
	Date Q2 2007	Date Q1 2007	Date Q4 2006	Date Q3 2006			
pH	7.07	7.33	7.71	6.95	Grab	1.0-14.0ph units	Meter
Temperature	13.0	10.3	10.8	14.5	Grab	-10-100°C	Meter
Electrical conductivity EC	0.570	0.643	0.620	0.582	Grab	0-19.9mScm ⁻¹	Meter
Ammoniacal nitrogen NH ₄ -N	0.3	<0.2	0.2	0.8	Grab	0-10mg/l	Spectro
Dissolved oxygen DO	5.23	4.58	4.16	2.46	Grab	Not applicable	Meter
Residue on evaporation (180°C)	-	748	-	-	Grab	Not applicable	Meter
Calcium Ca	112	123	131	133	Grab	0-10,000µg/l	ICP MS
Cadmium Cd	-	0.0007	-	-	Grab	0-100µg/l	ICP MS
Chromium Cr	-	0.009	-	-	Grab	0-100µg/l	ICP MS
Chloride Cl	26	26	22	24	Grab	0-1,000mg/l	Kone
Copper Cu	-	0.006	-	-	Grab	1-100µg/l	ICP MS
Cyanide Cn, total	<0.05	<0.05	<0.05	<0.05	Grab	0.05-1mg/l	Spectro
Iron Fe	<0.002	0.05	<0.002	<0.002	Grab	0-100µg/l	ICP MS
Lead Pb	-	<0.001	-	-	Grab	0-100µg/l	ICP MS
Magnesium Mg	-	-	-	-	Grab	0-10,000µg/l	ICP MS
Manganese Mn	0.282	0.152	0.267	0.172	Grab	0-100µg/l	ICP MS
Mercury Hg	-	<0.00005	-	-	Grab		CV AA
Nickel Ni	Not Applicable	Not Applicable	Not Applicable	Not Applicable		0-100µg/l	ICP MS
Potassium K	1.5	1.7	1.3	1.3	Grab	0.2-12mg/l	Flame Photo
Sodium Na	15	19	14	19	Grab	0.2-6.0mg/l	Flame Photo

*ALL MONITORING DATA FOR THIS POINT DATING FROM Q2, 2003 CAN BE VIEWED ON SITE.

Parameter	Results (mg/l)				Sampling method (composite, dipper etc.)	Normal Analytical Range	Analysis method / technique
	Date Q2 2007	Date Q1 2007	Date Q4 2006	Date Q3 2006			
Phosphate PO ₄	-	2.81	-	-	Grab	0.2-6.0mg/l	Kone
Sulphate SO ₄	21	27	24	26	Grab	0-500µg/l	Kone
Zinc Zn	-	0.17	-	-	Grab	0-1,100µg/l	ICP MS
Total alkalinity (as CaCO ₃)	Not Applicable	Not Applicable	Not Applicable	Not Applicable		0-100µg/l	Titration
Total organic carbon TOC	5	3	4	<2	Grab	1-2,000mg/l	IR
Total oxidised nitrogen TON	<0.3	0.6	0.8	0.3	Grab	1-60mg/l	Kone
Arsenic As	0.008	0.006	0.009	0.006	Grab	0.3-50mg/l	ICP MS
Barium Ba	0.052	0.078	0.07	0.07	Grab	0-100µg/l	ICP MS
Boron B	-	0.028	-	-	Grab	0-100µg/l	ICP MS
Fluoride F	-	0.3	-	-	Grab	0-500µg/l	Kone
Phenol	<0.01	<0.01	<0.01	<0.01	Grab	0.1-1.5mg/l	HPLC
Phosphorus P	-	3.64	-	-	Grab	0.01-30mg/l	ICP Iris
Selenium Se	Not Applicable	Not Applicable	Not Applicable	Not Applicable		0-500µg/l	
Silver Ag	Not Applicable	Not Applicable	Not Applicable	Not Applicable			
Nitrite NO ₂	Not Applicable	Not Applicable	Not Applicable	Not Applicable			
Nitrate NO ₃	Not Applicable	Not Applicable	Not Applicable	Not Applicable			
Faecal coliforms (/100mls)	-	<1	-	-	Grab	Not applicable	Filtration
Total coliforms (/100mls)	-	12	-	-	Grab	Not Applicable	Filtration
Water level (m OD)	103.82	91.47	91.12	91.82	Grab	0-100m	Dip Meter

*ALL MONITORING DATA FOR THIS POINT DATING FROM Q2, 2003 CAN BE VIEWED ON SITE.



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(Sheet 1 of 2) Monitoring Point/ Grid Reference: BH6

Parameter	Results (mg/l)				Sampling method (composite etc.)	Normal Analytical Range	Analysis method / technique
	Date Q2 2007	Date Q1 2007	Date Q4 2006	Date Q3 2006			
pH	7.53	7.66	7.22	7.06	Grab	1.0-14.0ph units	Meter
Temperature	10.8	10.4	10.6	12.7	Grab	-10-100°C	Meter
Electrical conductivity EC	0.603	0.644	0.647	0.624	Grab	0-19.9mScm ⁻¹	Meter
Ammoniacal nitrogen NH ₄ -N	0.3	0.3	0.4	0.2	Grab	0-10mg/l	Spectro
Dissolved oxygen DO	4.41	5.56	1.55	3.39	Grab	Not applicable	Meter
Residue on evaporation (180°C)	-	452	-	-	Grab	Not applicable	Meter
Calcium Ca	102.6	113.7	110.0	111.1	Grab	0-10,000µg/l	ICP MS
Cadmium Cd	-	<0.0004	-	-	Grab	0-100µg/l	ICP MS
Chromium Cr	-	0.009	-	-	Grab	0-100µg/l	ICP MS
Chloride Cl	21	25	20	21	Grab	0-1,000mg/l	Kone
Copper Cu	-	<0.001	-	-	Grab	1-100µg/l	ICP MS
Cyanide Cn, total	<0.05	<0.05	<0.05	<0.05	Grab	0.05-1mg/l	Spectro
Iron Fe	0.138	0.056	<0.002	<0.002	Grab	0-100µg/l	ICP MS
Lead Pb	-	<0.001	-	-	Grab	0-100µg/l	ICP MS
Magnesium Mg	-	-	-	-	Grab	0-10,000µg/l	ICP MS
Manganese Mn	0.150	0.139	<0.001	<0.001	Grab	0-100µg/l	ICP MS
Mercury Hg	-	<0.00005	-	-			CV AA
Nickel Ni	Not Applicable	Not Applicable	Not Applicable	Not Applicable		0-100µg/l	ICP MS
Potassium K	6.8	6.1	5.5	5.7	Grab	0.2-12mg/l	Flame Photo
Sodium Na	17.5	18.5	16.5	23	Grab	0.2-6.0mg/l	Flame Photo

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Parameter	Results (mg/l)				Sampling method (composite, dipper etc.)	Normal Analytical Range	Analysis method / technique
	Date Q2 2007	Date Q1 2007	Date Q4 2006	Date Q3 2006			
Phosphate PO ₄	-	0.04	-	-	Grab	0.2-6.0mg/l	Kone
Sulphate SO ₄	38	33	35	36	Grab	0-500µg/l	Kone
Zinc Zn	-	0.012	-	-	Grab	0-1,100µg/l	ICP MS
Total alkalinity (as CaCO ₃)	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Grab	0-100µg/l	Titration
Total organic carbon TOC	3	0.002	<2	<2	Grab	1-2,000mg/l	IR
Total oxidised nitrogen TON	<0.3	<0.3	<0.3	<0.3	Grab	1-60mg/l	Kone
Arsenic As	<0.001	<0.001	<0.001	<0.001	Grab	0.3-50mg/l	ICP MS
Barium Ba	0.06	0.1	0.05	0.05	Grab	0-100µg/l	ICP MS
Boron B	-	0.086	-	-	Grab	0-100µg/l	ICP MS
Fluoride F	-	0.3	-	-	Grab	0-500µg/l	Kone
Phenol	<0.01	<0.01	<0.01	<0.01	Grab	0.1-1.5mg/l	HPLC
Phosphorus P	-	0.33	-	-	Grab	0.01-30mg/l	ICP Iris
Selenium Se	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Grab	0-500µg/l	
Silver Ag	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Grab		
Nitrite NO ₂	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Grab		
Nitrate NO ₃	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Grab		
Faecal coliforms (/100mls)	-	<1	-	-	Grab	Not applicable	Filtration
Total coliforms (/100mls)	-	30	-	-	Grab	Not Applicable	Filtration
Water level (m OD)	117.31	117.31	117.31	117.31	Grab	0-100m	Dip Meter

*ALL MONITORING DATA FOR THIS POINT DATING FROM Q2, 2003 CAN BE VIEWED ON SITE.



WASTE Application Form

(Sheet 1 of 2) Monitoring Point/ Grid Reference: BH8

Parameter	Results (mg/l)				Sampling method (composite etc.)	Normal Analytical Range	Analysis method / technique
	Date Q2 2007	Date Q1 2007	Date Q4 2006	Date Q3 2006			
pH	7.03	7.4	6.6	Dry	Grab	1.0-14.0ph units	Meter
Temperature	17.0	9.9	13.6	Dry	Grab	-10-100°C	Meter
Electrical conductivity EC	0.792	0.505	0.525	Dry	Grab	0-19.9mScm ⁻¹	Meter
Ammoniacal nitrogen NH ₄ -N	0.3	0.3	<0.2	Dry	Grab	0-10mg/l	Spectro
Dissolved oxygen DO	0.78	3.16	3.89	Dry	Grab	Not applicable	Meter
Residue on evaporation (180°C)	-	6723	-	-	-	Not applicable	Meter
Calcium Ca	173.3	66.42	79.68	Dry	Grab	0-10,000µg/l	ICP MS
Cadmium Cd	-	<0.0004	-	-	-	0-100µg/l	ICP MS
Chromium Cr	-	0.002	-	-	-	0-100µg/l	ICP MS
Chloride Cl	40	64	28	Dry	Grab	0-1,000mg/l	Kone
Copper Cu	-	0.003	-	-	-	1-100µg/l	ICP MS
Cyanide Cn, total	<0.05	<0.05	<0.05	Dry	Grab	0.05-1mg/l	Spectro
Iron Fe	0.022	0.057	<0.002	Dry	Grab	0-100µg/l	ICP MS
Lead Pb	-	0.001	-	-	-	0-100µg/l	ICP MS
Magnesium Mg	-	-	-	-	-	0-10,000µg/l	ICP MS
Manganese Mn	1.276	0.172	0.012	Dry	Grab	0-100µg/l	ICP MS
Mercury Hg	-	<0.00005	<0.00005	Dry	-	-	CV AA
Nickel Ni	Not Applicable	Not Applicable	Not Applicable	Dry	-	0-100µg/l	ICP MS
Potassium K	5.5	2.2	5.1	Dry	Grab	0.2-12mg/l	Flame Photo

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GROUNDWATER QUALITY (SHEET 2 OF 2)

Paramete	Results (mg/l)				Sampling method composite, dipper etc.)	Normal Analytical Range	Analysis method / technique
	Date Q2 2007	Date Q1 2007	Date Q4 2006	Date Q3 2006			
Sodium Na	24	26	18	Dry	Grab	0.2-6.0mg/l	Flame Photo
Phosphate PO ₄	-	0.05	-	Dry		0.2-6.0mg/l	Kone
Sulphate SO ₄	181	83	142	Dry	Grab	0-500µg/l	Kone
Zinc Zn	-	0.014	-	Dry		0-1,100µg/l	ICP MS
Total alkalinity (as CaCO ₃)	Not Applicable	Not Applicable	Not Applicable	Not Applicable		0-100µg/l	Titration
Total organic carbon TOC	10	6	8	Dry	Grab	1-2,000mg/l	IR
Total oxidised nitrogen TON	<0.3	7.9	5.1	Dry	Grab	1-60mg/l	Kone
Arsenic As	0.001	<0.001	<0.001	Dry	Grab	0.3-50mg/l	ICP MS
Barium Ba	0.069	0.063	0.054	Dry	Grab	0-100µg/l	ICP MS
Boron B	-	0.03	-	Dry		0-100µg/l	ICP MS
Fluoride F	-	<0.1	-	Dry		0-500µg/l	Kone
Phenol	<0.01	<0.01	<0.01	Dry		0.1-1.5mg/l	HPLC
Phosphorus P	-	5.51	-	Dry		0.01-30mg/l	ICP Iris
Selenium Se	Not Applicable	Not Applicable	Not Applicable	Not Applicable		0-500µg/l	
Silver Ag	Not Applicable	Not Applicable	Not Applicable	Not Applicable			
Nitrite NO ₂	Not Applicable	Not Applicable	Not Applicable	Not Applicable			
Nitrate NO ₃	Not Applicable	Not Applicable	Not Applicable	Not Applicable			
Faecal coliforms (/100mls)	-	<1	-	Dry		Not applicable	Filtration
Total coliforms (/100mls)	-	15	-	Dry		Not Applicable	Filtration
Water level (m OD)	133.12	133.38	133.46	Dry	Grab	0-100m	Dip Meter

*ALL MONITORING DATA FOR THIS POINT DATING FROM Q2, 2003 CAN BE VIEWED ON SITE.



WASTE Application Form

(Sheet 1 of 2) Monitoring Point/ Grid Reference: BH9

Parameter	Results (mg/l)				Sampling method (composite etc.)	Normal Analytical Range	Analysis method / technique
	Date Q2 2007	Date Q1 2007	Date Q4 2006	Date Q3 2006			
pH	6.92	7.54	7.01	7.54	Grab	1.0-14.0ph units	Meter
Temperature	17.0	10.6	12.0	13.5	Grab	-10-100°C	Meter
Electrical conductivity EC	0.443	0.488	0.458	0.449	Grab	0-19.9mScm ⁻¹	Meter
Ammoniacal nitrogen NH ₄ -N	<0.2	0.4	<0.2	0.2	Grab	0-10mg/l	Spectro
Dissolved oxygen DO	0.81	1.82	2.74	1.61	Grab	Not applicable	Meter
Residue on evaporation (180°C)	-	341	-	-	Grab	Not applicable	Meter
Calcium Ca	96.51	90.25	93.27	95.2	Grab	0-10,000µg/l	ICP MS
Cadmium Cd	-	0.0005	-	-	Grab	0-100µg/l	ICP MS
Chromium Cr	-	0.006	-	-	Grab	0-100µg/l	ICP MS
Chloride Cl	22	22	18	21	Grab	0-1,000mg/l	Kone
Copper Cu	-	<0.001	-	-	Grab	1-100µg/l	ICP MS
Cyanide Cn, total	<0.05	<0.05	<0.05	<0.05	Grab	0.05-1mg/l	Spectro
Iron Fe	0.018	0.039	<0.002	<0.002	Grab	0-100µg/l	ICP MS
Lead Pb	-	<0.001	-	-	Grab	0-100µg/l	ICP MS
Magnesium Mg	-	-	-	-	Grab	0-10,000µg/l	ICP MS
Manganese Mn	0.014	0.034	<0.001	<0.001	Grab	0-100µg/l	ICP MS
Mercury Hg	-	<0.00005	-	-	Grab		CV AA
Nickel Ni	Not Applicable	Not Applicable	Not Applicable	Not Applicable		0-100µg/l	ICP MS
Potassium K	0.8	0.7	0.6	0.6	Grab	0.2-12mg/l	Flame Photo
Sodium Na	14	14	12.5	18.5	Grab	0.2-6.0mg/l	Flame Photo

*ALL MONITORING DATA FOR THIS POINT DATING FROM Q2, 2003 CAN BE VIEWED ON SITE.

Parameter	Results (mg/l)				Sampling method (composite, dipper etc.)	Normal Analytical Range	Analysis method / technique
	Date Q2 2007	Date Q1 2007	Date Q4 2006	Date Q3 2006			
Phosphate PO ₄	-	<0.03	-	-	Grab	0.2-6.0mg/l	Kone
Sulphate SO ₄	42	25	34	38	Grab	0-500µg/l	Kone
Zinc Zn	-	0.014	-	-	Grab	0-1,100µg/l	ICP MS
Total alkalinity (as CaCO ₃)	Not Applicable	Not Applicable	Not Applicable	Not Applicable		0-100µg/l	Titration
Total organic carbon TOC	4	2	4	2	Grab	1-2,000mg/l	IR
Total oxidised nitrogen TON	<0.3	<0.3	<0.3	<0.3	Grab	1-60mg/l	Kone
Arsenic As	0.003	0.004	0.004	0.005	Grab	0.3-50mg/l	ICP MS
Barium Ba	0.008	0.016	0.004	0.005	Grab	0-100µg/l	ICP MS
Boron B	-	0.018	-	-	Grab	0-100µg/l	ICP MS
Fluoride F	-	<0.1	-	-	Grab	0-500µg/l	Kone
Phenol	<0.01	<0.01	<0.01	<0.01	Grab	0.1-1.5mg/l	HPLC
Phosphorus P	-	0.6	-	-	Grab	0.01-30mg/l	ICP Iris
Selenium Se	Not Applicable	Not Applicable	Not Applicable	Not Applicable		0-500µg/l	
Silver Ag	Not Applicable	Not Applicable	Not Applicable	Not Applicable			
Nitrite NO ₂	Not Applicable	Not Applicable	Not Applicable	Not Applicable			
Nitrate NO ₃	Not Applicable	Not Applicable	Not Applicable	Not Applicable			
Faecal coliforms (/100mls)	-	10	-	-	Grab	Not applicable	Filtration
Total coliforms (/100mls)	-	880	-	-	Grab	Not Applicable	Filtration
Water level (m OD)	103.79	104.06	101.2	102.39	Grab	0-100m	Dip Meter

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(Sheet 1 of 2) Monitoring Point/ Grid Reference: BH10

Parameter	Results (mg/l)				Sampling method (composite etc.)	Normal Analytical Range	Analysis method / technique
	Date Q2 2007	Date Q1 2007	Date Q4 2006	Date Q3 2006			
pH	Dry	Dry	Dry	Dry			
Temperature	Dry	Dry	Dry	Dry			
Electrical conductivity EC	Dry	Dry	Dry	Dry			
Ammoniacal nitrogen NH ₄ -N	Dry	Dry	Dry	Dry			
Dissolved oxygen DO	Dry	Dry	Dry	Dry			
Residue on evaporation (180°C)	Dry	Dry	Dry	Dry			
Calcium Ca	Dry	Dry	Dry	Dry			
Cadmium Cd	Dry	Dry	Dry	Dry			
Chromium Cr	Dry	Dry	Dry	Dry			
Chloride Cl	Dry	Dry	Dry	Dry			
Copper Cu	Dry	Dry	Dry	Dry			
Cyanide Cn, total	Dry	Dry	Dry	Dry			
Iron Fe	Dry	Dry	Dry	Dry			
Lead Pb	Dry	Dry	Dry	Dry			
Magnesium Mg	Dry	Dry	Dry	Dry			
Manganese Mn	Dry	Dry	Dry	Dry			
Mercury Hg	Dry	Dry	Dry	Dry			
Nickel Ni	Dry	Dry	Dry	Dry			
Potassium K	Dry	Dry	Dry	Dry			
Sodium Na	Dry	Dry	Dry	Dry			

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GROUNDWATER QUALITY (SHEET 2 OF 2)

Parameter	Results (mg/l)				Sampling method (composite, dipper etc.)	Normal Analytical Range	Analysis method / technique
	Date Q2 2007	Date Q1 2007	Date Q4 2006	Date Q3 2006			
Phosphate PO ₄	Dry	Dry	Dry	Dry			
Sulphate SO ₄	Dry	Dry	Dry	Dry			
Zinc Zn	Dry	Dry	Dry	Dry			
Total alkalinity (as CaCO ₃)	Dry	Dry	Dry	Dry			
Total organic carbon TOC	Dry	Dry	Dry	Dry			
Total oxidised nitrogen TON	Dry	Dry	Dry	Dry			
Arsenic As	Dry	Dry	Dry	Dry			
Barium Ba	Dry	Dry	Dry	Dry			
Boron B	Dry	Dry	Dry	Dry			
Fluoride F	Dry	Dry	Dry	Dry			
Phenol	Dry	Dry	Dry	Dry			
Phosphorus P	Dry	Dry	Dry	Dry			
Selenium Se	Dry	Dry	Dry	Dry			
Silver Ag	Dry	Dry	Dry	Dry			
Nitrite NO ₂	Dry	Dry	Dry	Dry			
Nitrate NO ₃	Dry	Dry	Dry	Dry			
Faecal coliforms (/100mls)	Dry	Dry	Dry	Dry			
Total coliforms (/100mls)	Dry	Dry	Dry	Dry			
Water level (m OD)	Dry	Dry	Dry	Dry			

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(Sheet 1 of 2) Monitoring Point/ Grid Reference: BH 11

Parameter	Results (mg/l)				Sampling method (composite etc.)	Normal Analytical Range	Analysis method / technique
	Date Q2 2007	Date Q1 2007	Date Q4 2006	Date Q3 2006			
pH	6.93	7.54	7.01	6.90	Grab	1.0-14.0ph units	Meter
Temperature	12.4	10.6	12.0	13.5	Grab	-10-100°C	Meter
Electrical conductivity EC	0.421	0.488	0.458	0.449	Grab	0-19.9mScm ⁻¹	Meter
Ammoniacal nitrogen NH ₄ -N	0.3	0.4	<0.2	<0.2	Grab	0-10mg/l	Spectro
Dissolved oxygen DO	1.98	1.82	2.74	1.61	Grab	Not applicable	Meter
Residue on evaporation (180°C)	-	341	-	-	Grab	Not applicable	Meter
Calcium Ca	67.01	90.25	93.27	95.32	Grab	0-10,000µg/l	ICP MS
Cadmium Cd	-	0.0005	-	-	Grab	0-100µg/l	ICP MS
Chromium Cr	-	0.006	-	-	Grab	0-100µg/l	ICP MS
Chloride Cl	19	22	18	21	Grab	0-1,000mg/l	Kone
Copper Cu	-	<0.001	-	-	Grab	1-100µg/l	ICP MS
Cyanide Cn, total	<0.05	<0.05	<0.05	<0.05	Grab	0.05-1mg/l	Spectro
Iron Fe	0.009	0.039	<0.002	<0.002	Grab	0-100µg/l	ICP MS
Lead Pb	-	<0.001	-	-	Grab	0-100µg/l	ICP MS
Magnesium Mg	-	-	-	-	Grab	0-10,000µg/l	ICP MS
Manganese Mn	0.339	0.034	<0.001	<0.001	Grab	0-100µg/l	ICP MS
Mercury Hg	-	<0.00005	<0.00005	<0.00005	Grab		CV AA
Nickel Ni	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Grab	0-100µg/l	ICP MS
Potassium K	7.4	0.7	0.6	0.6	Grab	0.2-12mg/l	Flame Photo

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Parameter	Results (mg/l)				Sampling method (composite, dipper etc.)	Normal Analytical Range	Analysis method / technique
	Date Q2 2007	Date Q1 2007	Date Q4 2006	Date Q3 2006			
Sodium Na	14.5	14	12.5	18.5	Grab	0.2-6.0mg/l	Flame Photo
Phosphate PO ₄	-	<0.03	-	-	Grab	0.2-6.0mg/l	Kone
Sulphate SO ₄	12	25	34	38	Grab	0-500µg/l	Kone
Zinc Zn	-	0.014	-	-	Grab	0-1,100µg/l	ICP MS
Total alkalinity (as CaCO ₃)	Not Applicable	Not Applicable	Not Applicable	Not Applicable		0-100µg/l	
Total organic carbon TOC	3	2	4	2	Grab	1-2,000mg/l	Titration
Total oxidised nitrogen TON	<0.3	<0.3	<0.3	<0.3	Grab	1-60mg/l	IR
Arsenic As	0.012	0.004	0.004	0.005	Grab	0.3-50mg/l	Kone
Barium Ba	0.019	0.016	0.004	0.005	Grab	0-100µg/l	ICP MS
Boron B	-	0.018	-	-	Grab	0-100µg/l	ICP MS
Fluoride F	-	<0.1	-	-	Grab	0-500µg/l	ICP MS
Phenol	<0.01	<0.01	<0.01	<0.01	Grab	0.1-1.5mg/l	Kone
Phosphorus P	-	0.6	-	-	Grab	0.01-30mg/l	HPLC
Selenium Se	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Grab	0-500µg/l	
Silver Ag	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Grab		
Nitrite NO ₂	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Grab		
Nitrate NO ₃	-	10	-	-	Grab		ICP Iris
Faecal coliforms (/100mls)	-	880	-	-	Grab	Not applicable	Filtration
Total coliforms (/100mls)	-	880	-	-	Grab	Not Applicable	Filtration
Water level (m OD)	108.37	104.06	101.2	102.39	Grab	0-100m	Dip Meter



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(Sheet 1 of 2) Monitoring Point/ Grid Reference: BH10A

Parameter	Results (mg/l)				Sampling method (composite etc.)	Normal Analytical Range	Analysis method / technique
	Date Q2 2007	Date Q1 2007	Date Q4 2006	Date Q3 2006			
pH	7.32	Not Applicable	Not Applicable	Not Applicable	Grab	1.0-14.0ph units	Meter
Temperature	11.9	Not Applicable	Not Applicable	Not Applicable	Grab	-10-100°C	Meter
Electrical conductivity EC	0.638	Not Applicable	Not Applicable	Not Applicable	Grab	0-19.9mScm ⁻¹	Meter
Ammoniacal nitrogen NH ₄ -N	<0.2	Not Applicable	Not Applicable	Not Applicable	Grab	0-10mg/l	Spectro
Dissolved oxygen DO	2.09	Not Applicable	Not Applicable	Not Applicable	Grab	Not applicable	Meter
Residue on evaporation (180°C)	812	Not Applicable	Not Applicable	Not Applicable	Grab	Not applicable	Meter
Calcium Ca	143.2	Not Applicable	Not Applicable	Not Applicable	Grab	0-10,000µg/l	ICP MS
Cadmium Cd	<0.0004	Not Applicable	Not Applicable	Not Applicable	Grab	0-100µg/l	ICP MS
Chromium Cr	0.007	Not Applicable	Not Applicable	Not Applicable	Grab	0-100µg/l	ICP MS
Chloride Cl	28	Not Applicable	Not Applicable	Not Applicable	Grab	0-1,000mg/l	Kone
Copper Cu	<0.001	Not Applicable	Not Applicable	Not Applicable	Grab	1-100µg/l	ICP MS
Cyanide Cn, total	<0.05	Not Applicable	Not Applicable	Not Applicable	Grab	0.05-1mg/l	Spectro
Iron Fe	<0.002	Not Applicable	Not Applicable	Not Applicable	Grab	0-100µg/l	ICP MS
Lead Pb	<0.001	Not Applicable	Not Applicable	Not Applicable	Grab	0-100µg/l	ICP MS
Magnesium Mg	13.52	Not Applicable	Not Applicable	Not Applicable	Grab	0-10,000µg/l	ICP MS
Manganese Mn	0.155	Not Applicable	Not Applicable	Not Applicable	Grab	0-100µg/l	ICP MS

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Parameter	Results (mg/l)				Sampling method (composite, dipper etc.)	Normal Analytical Range	Analysis method / technique
	Date Q2 2007	Date Q1 2007	Date Q4 2006	Date Q3 2006			
Mercury Hg	<0.00005	Not Applicable	Not Applicable	Not Applicable	Grab		CV AA
Nickel Ni	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Grab	0-100µg/l	ICP MS
Potassium K	2.4	Not Applicable	Not Applicable	Not Applicable	Grab	0.2-12mg/l	Flame Photo
Sodium Na	11	Not Applicable	Not Applicable	Not Applicable	Grab	0.2-6.0mg/l	Flame Photo
Phosphate PO ₄	<0.03	Not Applicable	Not Applicable	Not Applicable	Grab	0.2-6.0mg/l	Kone
Sulphate SO ₄	72	Not Applicable	Not Applicable	Not Applicable	Grab	0-500µg/l	Kone
Zinc Zn	0.014	Not Applicable	Not Applicable	Not Applicable	Grab	0-1,100µg/l	ICP MS
Total alkalinity (as CaCO ₃)	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Grab	0-100µg/l	
Total organic carbon TOC	3	Not Applicable	Not Applicable	Not Applicable	Grab	1-2,000mg/l	Titration
Total oxidised nitrogen TON	<0.3	Not Applicable	Not Applicable	Not Applicable	Grab	1-60mg/l	IR
Arsenic As	0.005	Not Applicable	Not Applicable	Not Applicable	Grab	0.3-50mg/l	Kone
Barium Ba	0.079	Not Applicable	Not Applicable	Not Applicable	Grab	0-100µg/l	ICP MS
Boron B	0.058	Not Applicable	Not Applicable	Not Applicable	Grab	0-100µg/l	ICP MS
Fluoride F	0.5	Not Applicable	Not Applicable	Not Applicable	Grab	0-500µg/l	ICP MS
Phenol	<0.01	Not Applicable	Not Applicable	Not Applicable	Grab	0.1-1.5mg/l	Kone
Phosphorus P	0.1	Not Applicable	Not Applicable	Not Applicable	Grab	0.01-30mg/l	HPLC
Selenium Se	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Grab	0-500µg/l	

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Parameter	Results (mg/l)				Sampling method (composite, dipper etc.)	Normal Analytical Range	Analysis method / technique
	Date Q2 2007	Date Q1 2007	Date Q4 2006	Date Q3 2006			
Silver Ag	Not Applicable	Not Applicable	Not Applicable	Not Applicable			
Nitrite NO ₂	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Grab		
Nitrate NO ₃	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Grab		ICP Iris
Faecal coliforms (/100mls)	<1	Not Applicable	Not Applicable	Not Applicable	Grab	Not applicable	Filtration
Total coliforms (/100mls)	158	Not Applicable	Not Applicable	Not Applicable	Grab	Not Applicable	Filtration
Water level (m OD)	88.49	Not Applicable	Not Applicable	Not Applicable	Grab	0-100m	Dip Meter

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Parameter	Results (mg/l)				Sampling method (composite etc.)	Normal Analytical Range	Analysis method / technique
	Date Q2 2007	Date Q1 2007	Date Q4 2006	Date Q3 2006			
pH	6.95	Not Applicable	Not Applicable	Not Applicable	Grab	1.0-14.0ph units	Meter
Temperature	13.6	Not Applicable	Not Applicable	Not Applicable	Grab	-10-100°C	Meter
Electrical conductivity EC	0.403	Not Applicable	Not Applicable	Not Applicable	Grab	0-19.9mScm ⁻¹	Meter
Ammoniacal nitrogen NH₄-N	<0.2	Not Applicable	Not Applicable	Not Applicable	Grab	0-10mg/l	Spectro
Dissolved oxygen DO	4.01	Not Applicable	Not Applicable	Not Applicable	Grab	Not applicable	Meter
Residue on evaporation (180°C)	342	Not Applicable	Not Applicable	Not Applicable	Grab	Not applicable	Meter
Calcium Ca	80.44	Not Applicable	Not Applicable	Not Applicable	Grab	0-10,000µg/l	ICP MS
Cadmium Cd	0.0191	Not Applicable	Not Applicable	Not Applicable	Grab	0-100µg/l	ICP MS
Chromium Cr	0.003	Not Applicable	Not Applicable	Not Applicable	Grab	0-100µg/l	ICP MS
Chloride Cl	33	Not Applicable	Not Applicable	Not Applicable	Grab	0-1,000mg/l	Kone
Copper Cu	<0.001	Not Applicable	Not Applicable	Not Applicable	Grab	1-100µg/l	ICP MS
Cyanide Cn, total	<0.05	Not Applicable	Not Applicable	Not Applicable	Grab	0.05-1mg/l	Spectro
Iron Fe	<0.002	Not Applicable	Not Applicable	Not Applicable	Grab	0-100µg/l	ICP MS
Lead Pb	<0.001	Not Applicable	Not Applicable	Not Applicable	Grab	0-100µg/l	ICP MS
Magnesium Mg	4.596	Not Applicable	Not Applicable	Not Applicable	Grab	0-10,000µg/l	ICP MS
Manganese Mn	0.039	Not Applicable	Not Applicable	Not Applicable	Grab	0-100µg/l	ICP MS

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Parameter	Results (mg/l)				Sampling method (composite etc.)	Normal Analytical Range	Analysis method / technique
	Date Q2 2007	Date Q1 2007	Date Q4 2006	Date Q3 2006			
Mercury Hg	<0.00005	Not Applicable	Not Applicable	Not Applicable	Grab		CV AA
Nickel Ni	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Grab	0-100µg/l	ICP MS
Potassium K	1.9	Not Applicable	Not Applicable	Not Applicable	Grab	0.2-12mg/l	Flame Photo
Sodium Na	17	Not Applicable	Not Applicable	Not Applicable	Grab	0.2-6.0mg/l	Flame Photo
Phosphate PO ₄	0.38	Not Applicable	Not Applicable	Not Applicable	Grab	0.2-6.0mg/l	Kone
Sulphate SO ₄	26	Not Applicable	Not Applicable	Not Applicable	Grab	0-500µg/l	Kone
Zinc Zn	0.041	Not Applicable	Not Applicable	Not Applicable	Grab	0-1,100µg/l	ICP MS
Total alkalinity (as CaCO ₃)	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Grab	0-100µg/l	
Total organic carbon TOC	<2	Not Applicable	Not Applicable	Not Applicable	Grab	1-2,000mg/l	Titration
Total oxidised nitrogen TON	12	Not Applicable	Not Applicable	Not Applicable	Grab	1-60mg/l	IR
Arsenic As	0.022	Not Applicable	Not Applicable	Not Applicable	Grab	0.3-50mg/l	Kone
Barium Ba	0.036	Not Applicable	Not Applicable	Not Applicable	Grab	0-100µg/l	ICP MS
Boron B	0.023	Not Applicable	Not Applicable	Not Applicable	Grab	0-100µg/l	ICP MS
Fluoride F	<0.1	Not Applicable	Not Applicable	Not Applicable	Grab	0-500µg/l	ICP MS
Phenol	<0.01	Not Applicable	Not Applicable	Not Applicable	Grab	0.1-1.5mg/l	Kone
Phosphorus P	0.19	Not Applicable	Not Applicable	Not Applicable	Grab	0.01-30mg/l	HPLC

Parameter	Results (mg/l)				Sampling method (composite, dipper etc.)	Normal Analytical Range	Analysis method / technique
	Date Q2 2007	Date Q1 2007	Date Q4 2006	Date Q3 2006			
Selenium Se	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Grab	0-500µg/l	
Silver Ag	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Grab		
Nitrite NO ₂	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Grab		
Nitrate NO ₃	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Grab		ICP Iris
Faecal coliforms (/100mls)	<1	Not Applicable	Not Applicable	Not Applicable	Grab	Not applicable	Filtration
Total coliforms (/100mls)	6	Not Applicable	Not Applicable	Not Applicable	Grab	Not Applicable	Filtration
Water level (m OD)	92.97	Not Applicable	Not Applicable	Not Applicable	Grab	0-100m	Dip Meter

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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) _{eq}	L(A) ₁₀	L(A) ₉₀
1. SITE BOUNDARY				
Location 1:				
Location 2:				
Location 3:				
Location 4:				
2. NOISE SENSITIVE LOCATIONS				
Location 1:	315820, 258640	60	58	48
Location 2:	314910, 257880	62	60	39
Location 3:	315566, 257670	63	62	39
Location 4:				

NOTE: All locations should be identified on accompanying drawings.

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